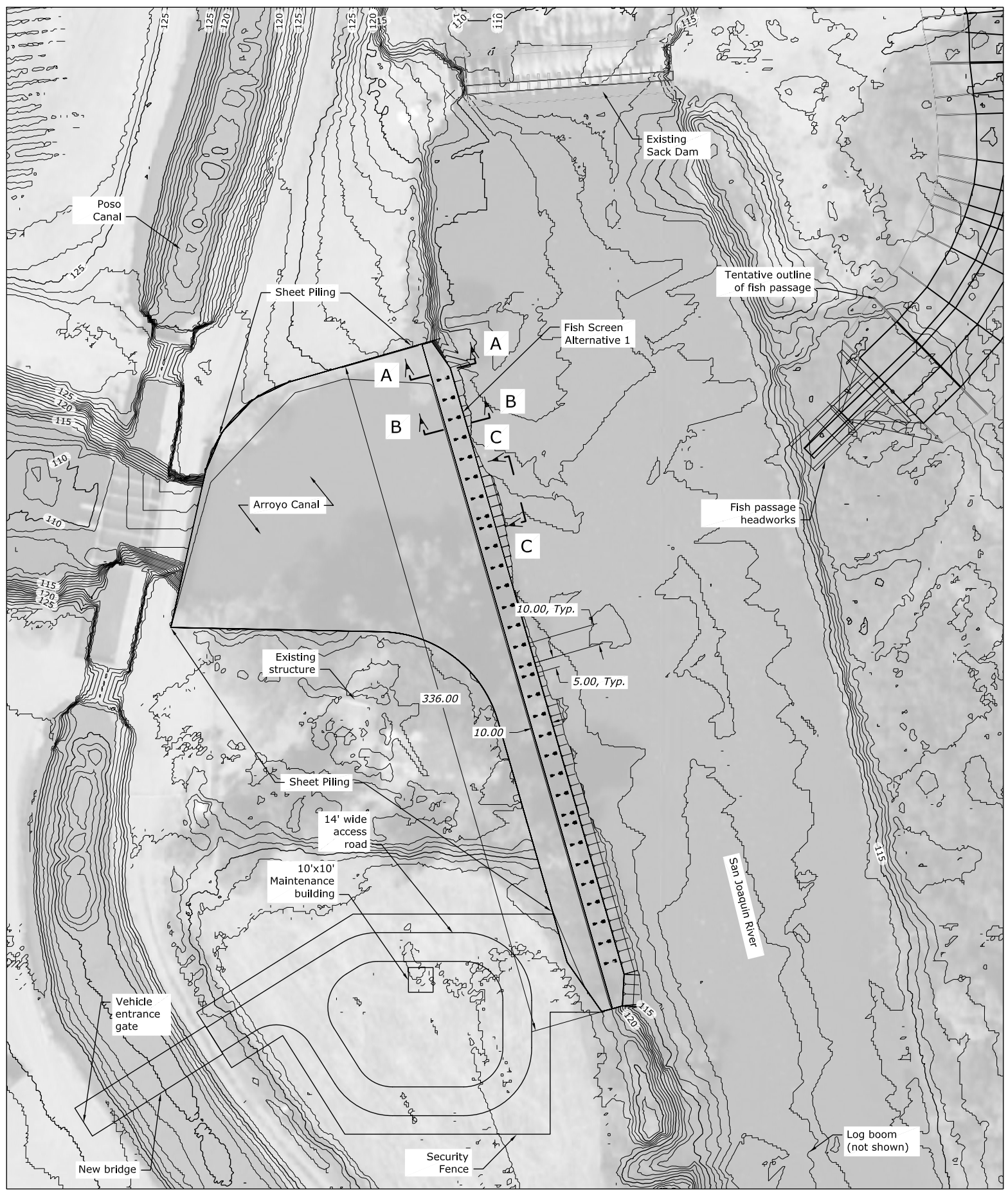
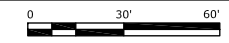


APPENDIX A: Drawings



PLAN



CAD SYSTEM
 AutoCAD 2015 (LMS TECH)
 LAST SAVED DATE
 2021-03-01
 LAST SAVED BY
 JPL/UGRA

NOTES

1. Elevations shown are based on 2015 LIDAR Data in NAVD88.
2. For sections see T0002.

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 SACK DAM RIVER RESTORATION PROJECT
 GRAVITY DIVISION

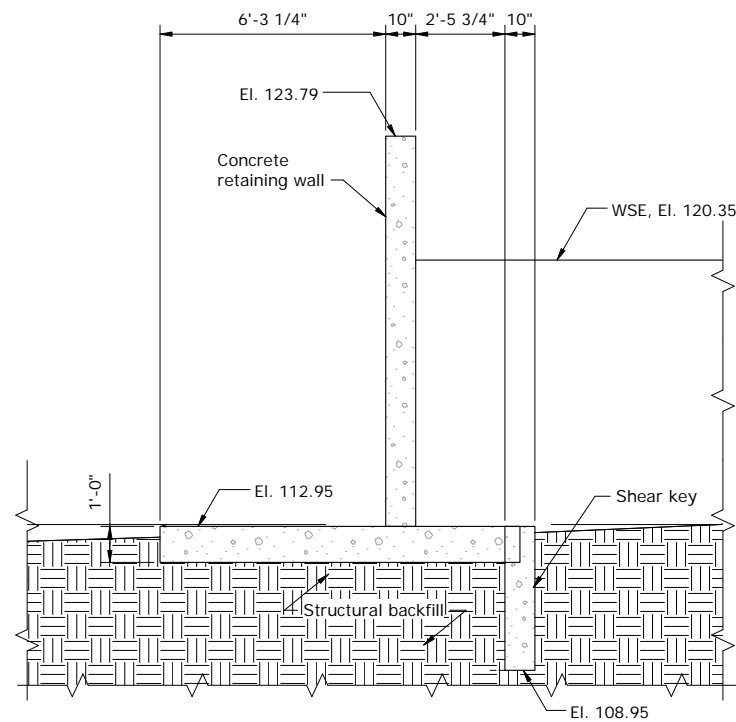
Draft
 SACK DAM & ARROYO CANAL
 ARROYO CANAL FISH SCREEN

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<input checked="" type="checkbox"/>	APPROVED
	ADMIN APPROVAL - TITLE
	DENVER, CO
	01/26/2021

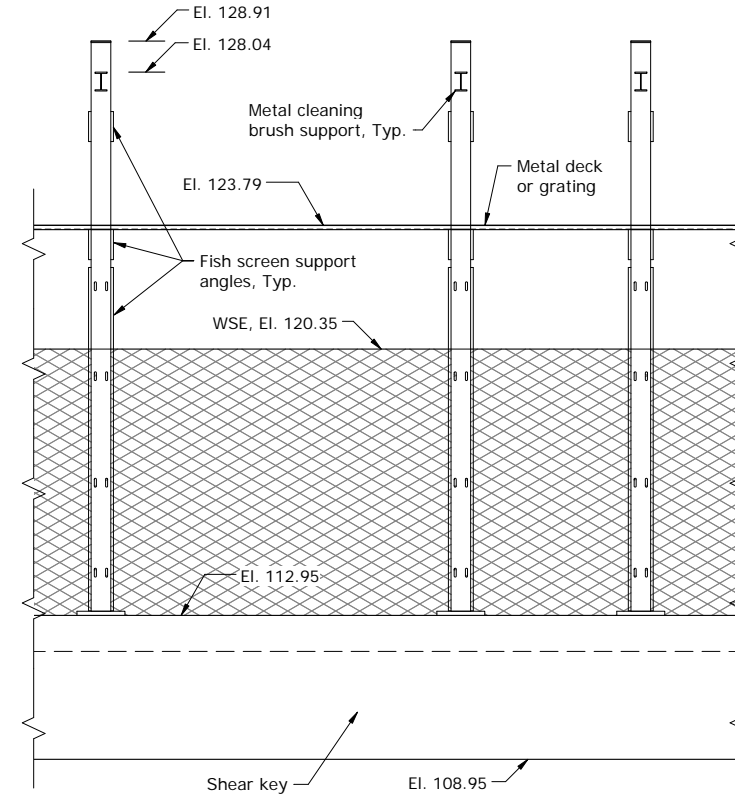
FISH SCREEN
ALTERNATIVE 1

PLAN

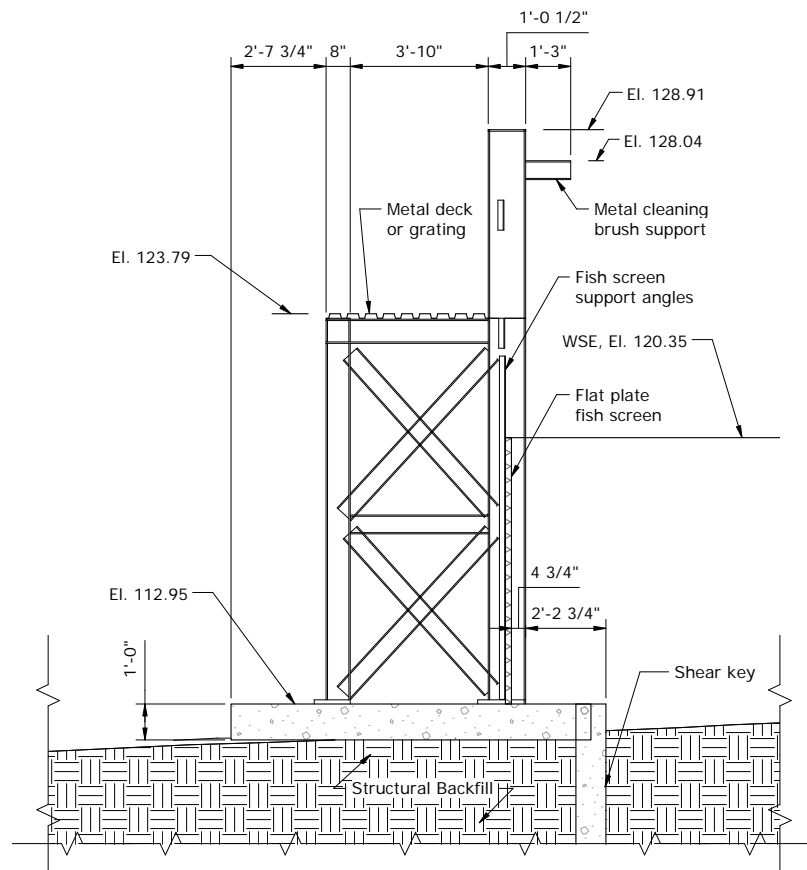
T0001
SHEET 1



A SECTION
T0001 Scale: 3/8" = 1'-0"



C SECTION
T0001 Scale: 3/8" = 1'-0"



B SECTION
T0001 Scale: 3/8" = 1'-0"

Notes

1. Elevations shown based on 2015 LiDAR Data in NAVD88.
2. For plan see T0001, T0003, and T0004.



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SACK DAM & ARROYO CANAL

ARROYO CANAL FISH SCREEN

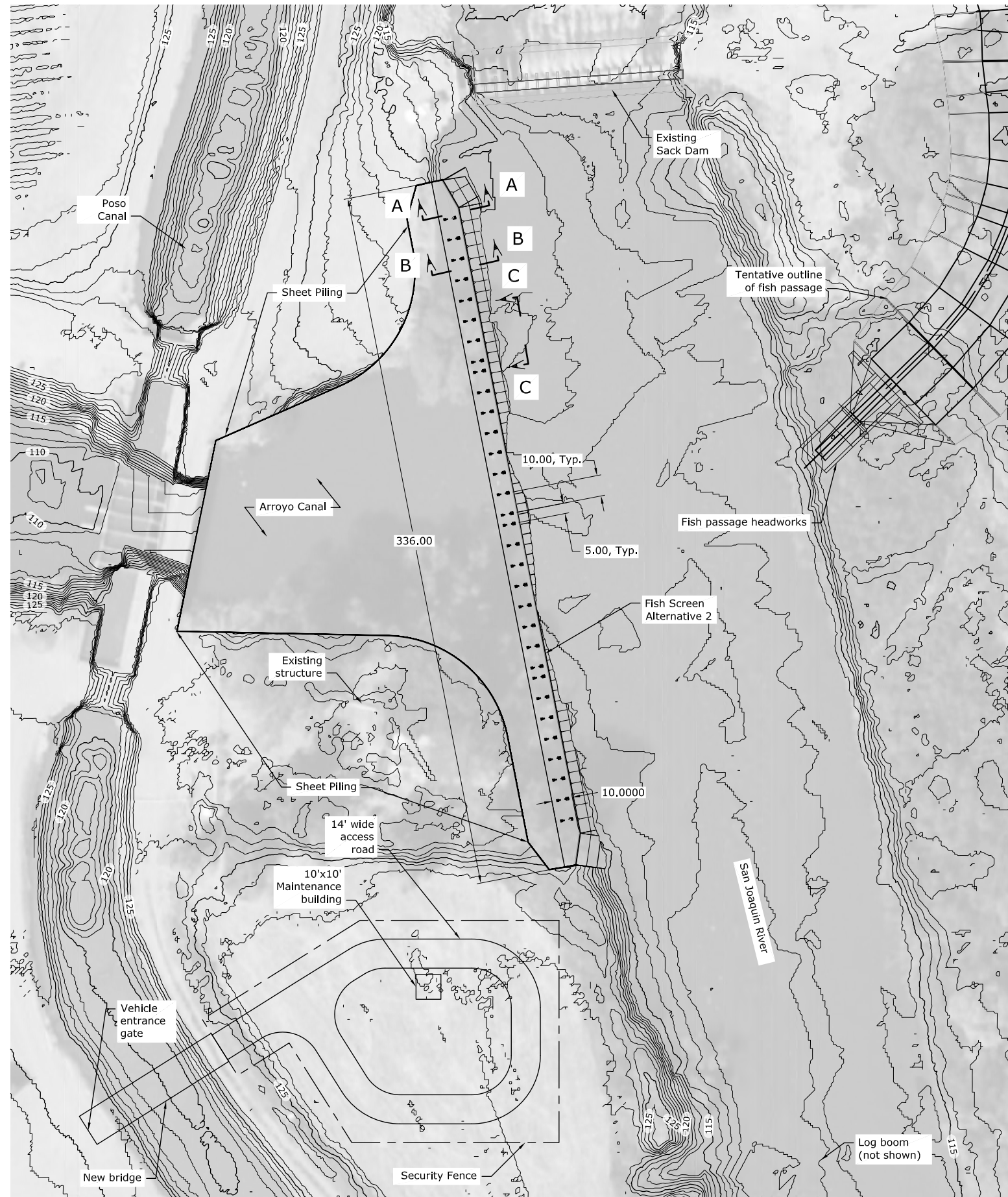
Designer	
DESIGNED	
Author	
DRAWN	
Checker	
CHECKED	
TECH. APPR.	
APPROVED	Approver
DENVER, CO	1/22/2021

**FISH SCREEN
ALTERNATIVE 1**

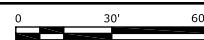
SECTIONS

T0002

CAD SYSTEM: Revit 2016.3
 CAD FILE NAME: C:\Users\jmuligan\Documents\Task_Dam_Serial\jmuligan_K03E.rvt
 DATE AND TIME PLOTTED: 3/2/2021 2:30:54 PM
 DESIGN PHASE: Project Status



PLAN



LAST SAVED DATE
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CAD SYSTEM
AUTOCAD 23.05 (LMS TECH)
PROJECT
FISH SCREEN ALTERNATIVE 2.DWG

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GRAVITY DIVISION

SACK DAM & ARROYO CANAL
ARROYO CANAL FISH SCREEN

<input checked="" type="checkbox"/>	DESIGNED
<input checked="" type="checkbox"/>	DRAWN
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	ADMIN APPROVAL - TITLE
	DENVER, CO
	01/26/2021

NOTES

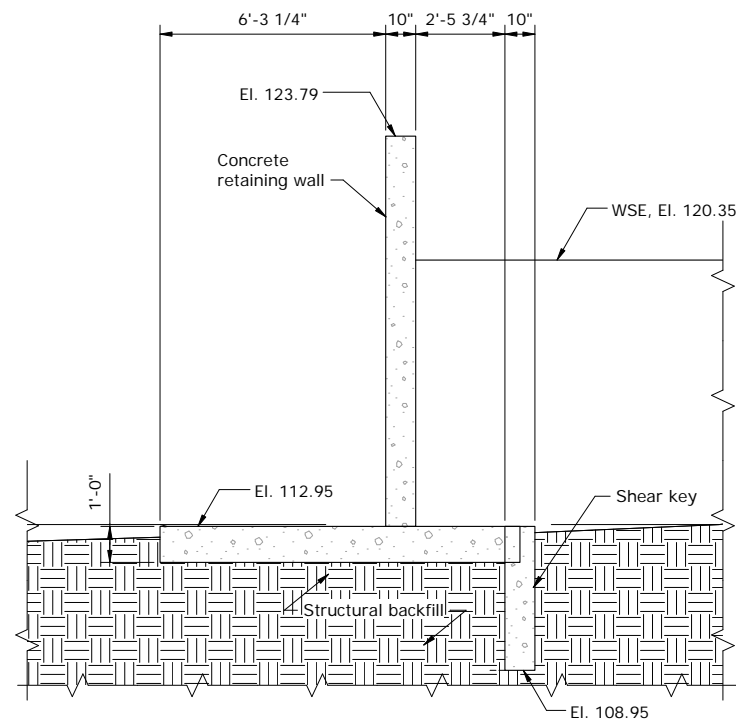
- Elevations shown are based on 2015 LIDAR Data in NAVD88.
- For sections see T0002.

FISH SCREEN
ALTERNATIVE 2

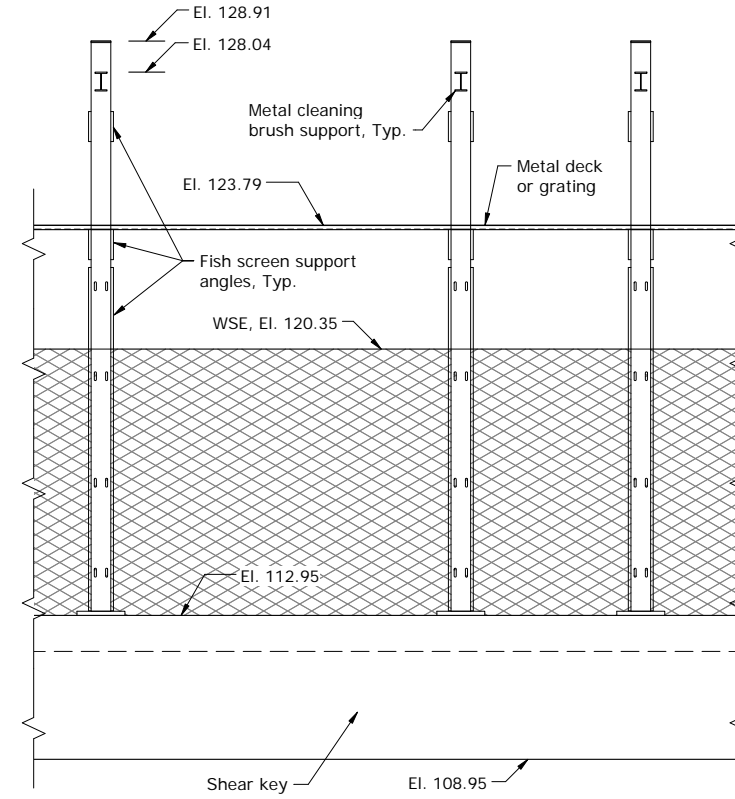
PLAN

T0003

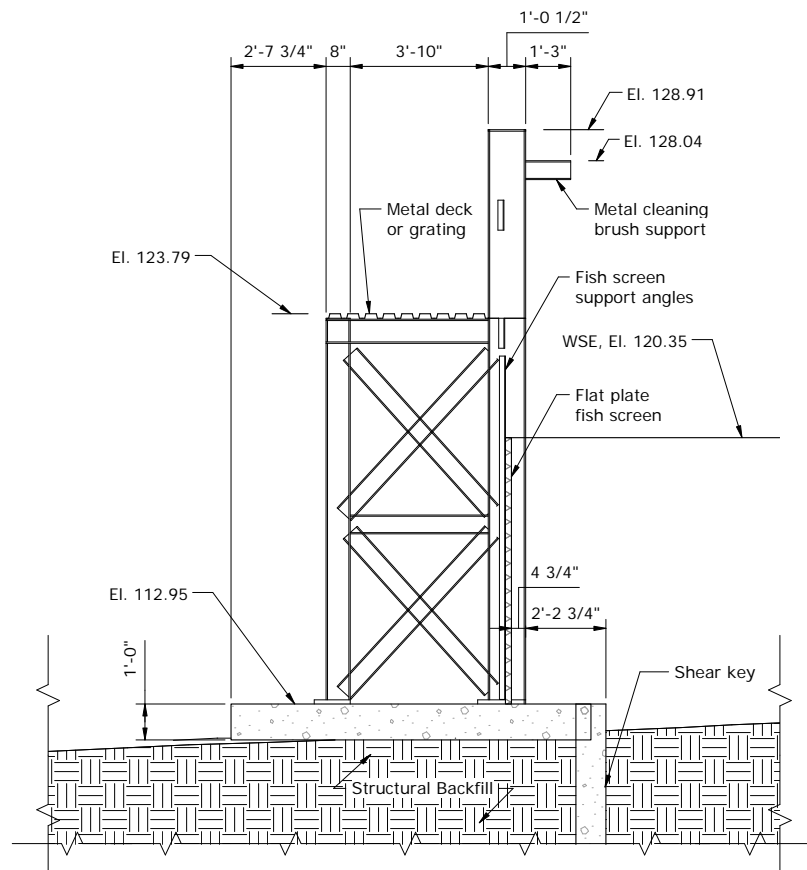
SHEET 1



A SECTION
T0001 Scale: 3/8" = 1'-0"



C SECTION
T0001 Scale: 3/8" = 1'-0"



B SECTION
T0001 Scale: 3/8" = 1'-0"

Notes

1. Elevations shown based on 2015 LiDAR Data in NAVD88.
2. For plan see T0001, T0003, and T0004.



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ARROYO CANAL FISH SCREEN

Designer	
DESIGNED	
Author	
DRAWN	
Checker	
CHECKED	
TECH. APPR.	
APPROVED	Approver
DENVER, CO	1/22/2021

**FISH SCREEN
ALTERNATIVE 1**

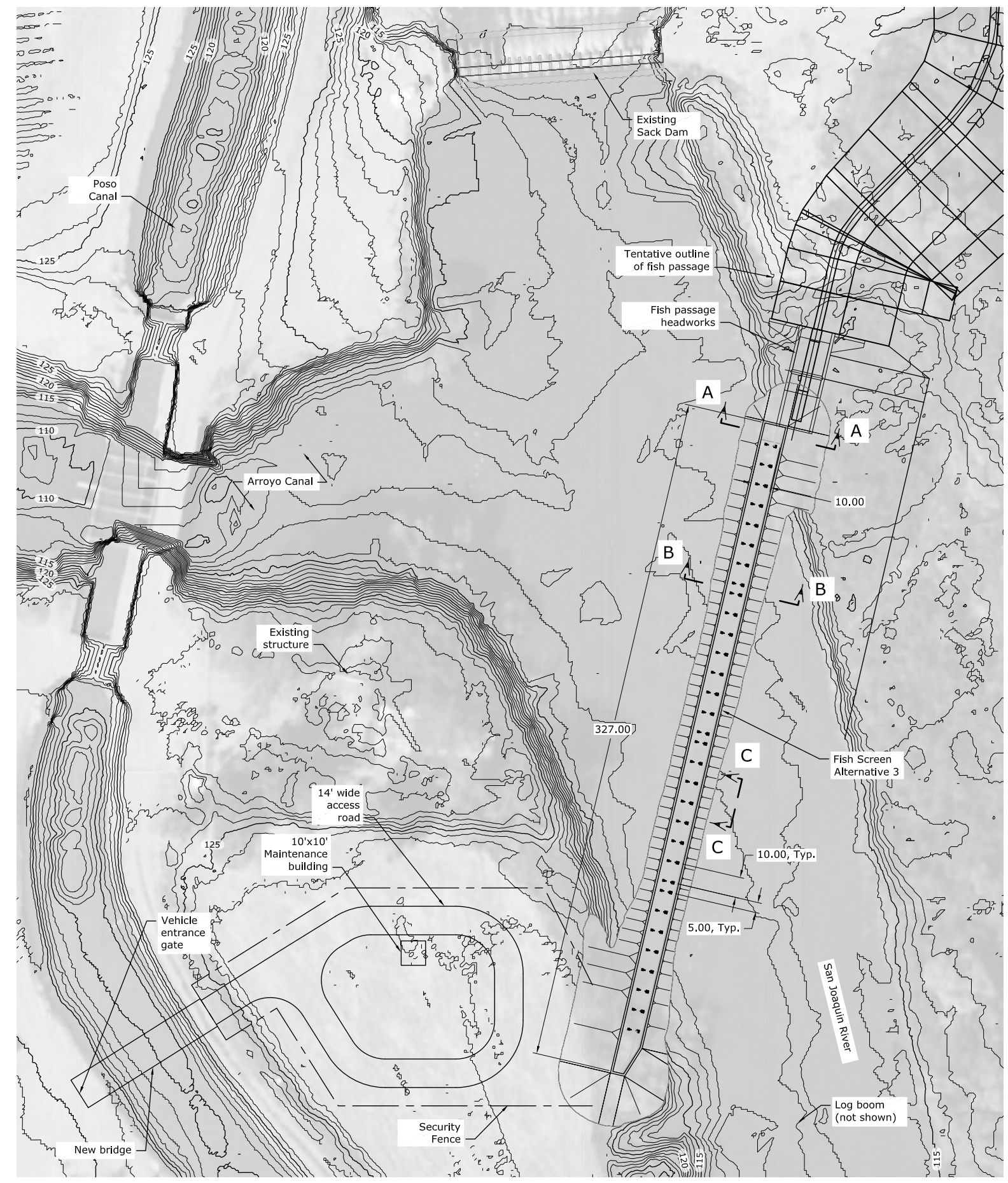
SECTIONS

T0002

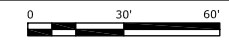
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Project Status

DATE AND TIME PLOTTED:
3/2/2021 2:30:54 PM

CAD SYSTEM:
Revit 2018.3
CAD FILE NAME:
C:\Users\jmuligan\Documents\Task_Dim_Serial_Ljmuligan\K03E.rvt



PLAN



CAD SYSTEM
 AutoCAD 2015 (LMS TECH)
 AUTO CAD 23.05
 FISH SCREEN ALTERNATIVE 3.DWG
 LAST SAVED DATE
 2021-02-08
 LAST SAVED BY
 JAVILLOREN

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Draft
 SACK DAM & ARROYO CANAL
 ARROYO CANAL FISH SCREEN
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<input checked="" type="checkbox"/>	DESIGNED
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	DENVER, CO
	01/26/2021

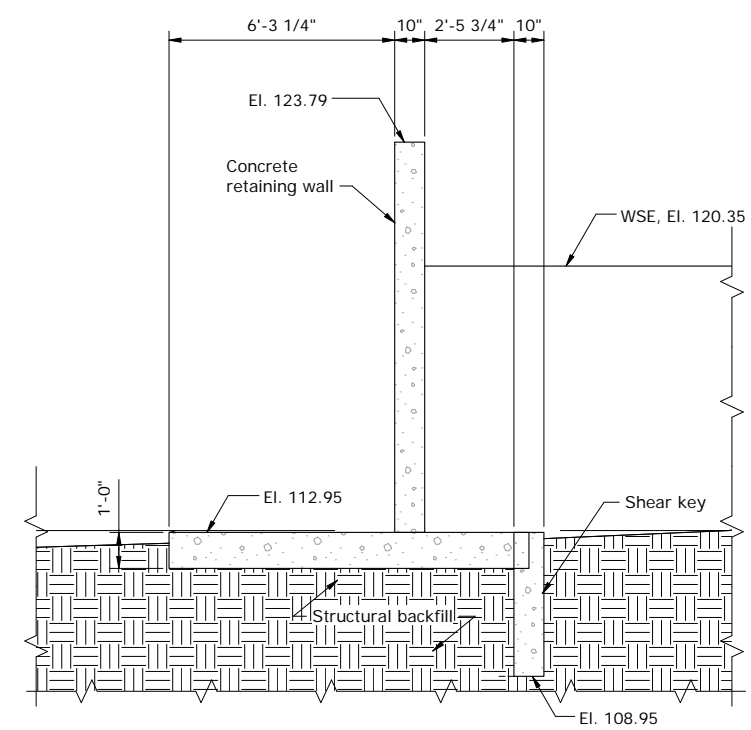
NOTES

- Elevations shown are based on 2015 LIDAR Data in NAVD88.
- for sections see T0002.

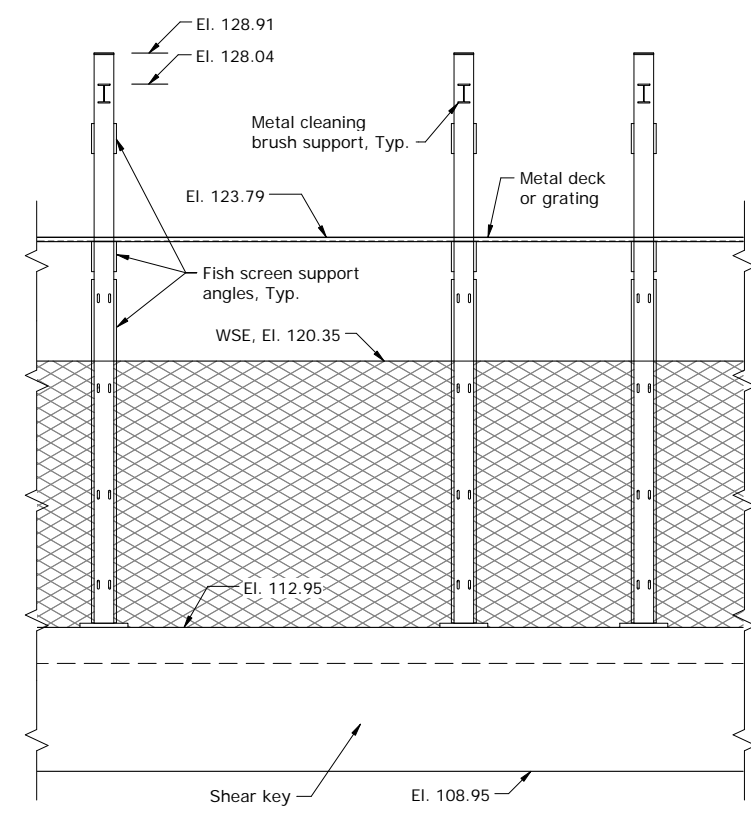
FISH SCREEN
ALTERNATIVE 3

PLAN

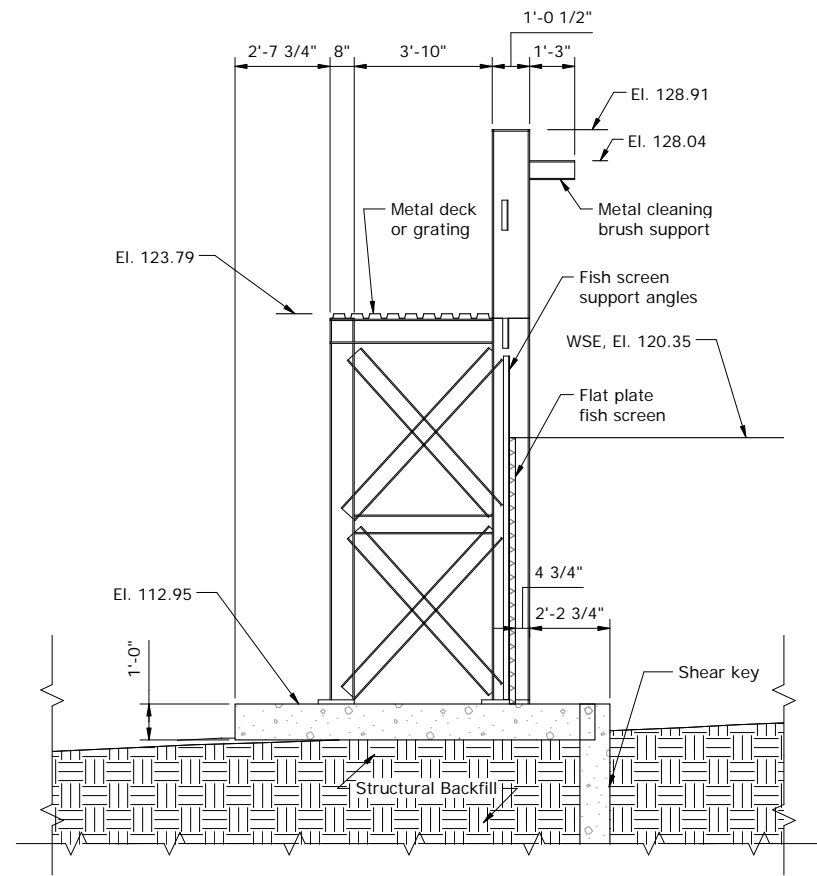
T0004
SHEET 1



A SECTION
T0001 Scale: 3/8" = 1'-0"



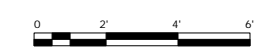
C SECTION
T0001 Scale: 3/8" = 1'-0"



B SECTION
T0001 Scale: 3/8" = 1'-0"

Notes

1. Elevations shown based on 2015 LiDAR Data in NAVD88.
2. For plan see T0001, T0003, and T0004.



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ARROYO CANAL FISH SCREEN

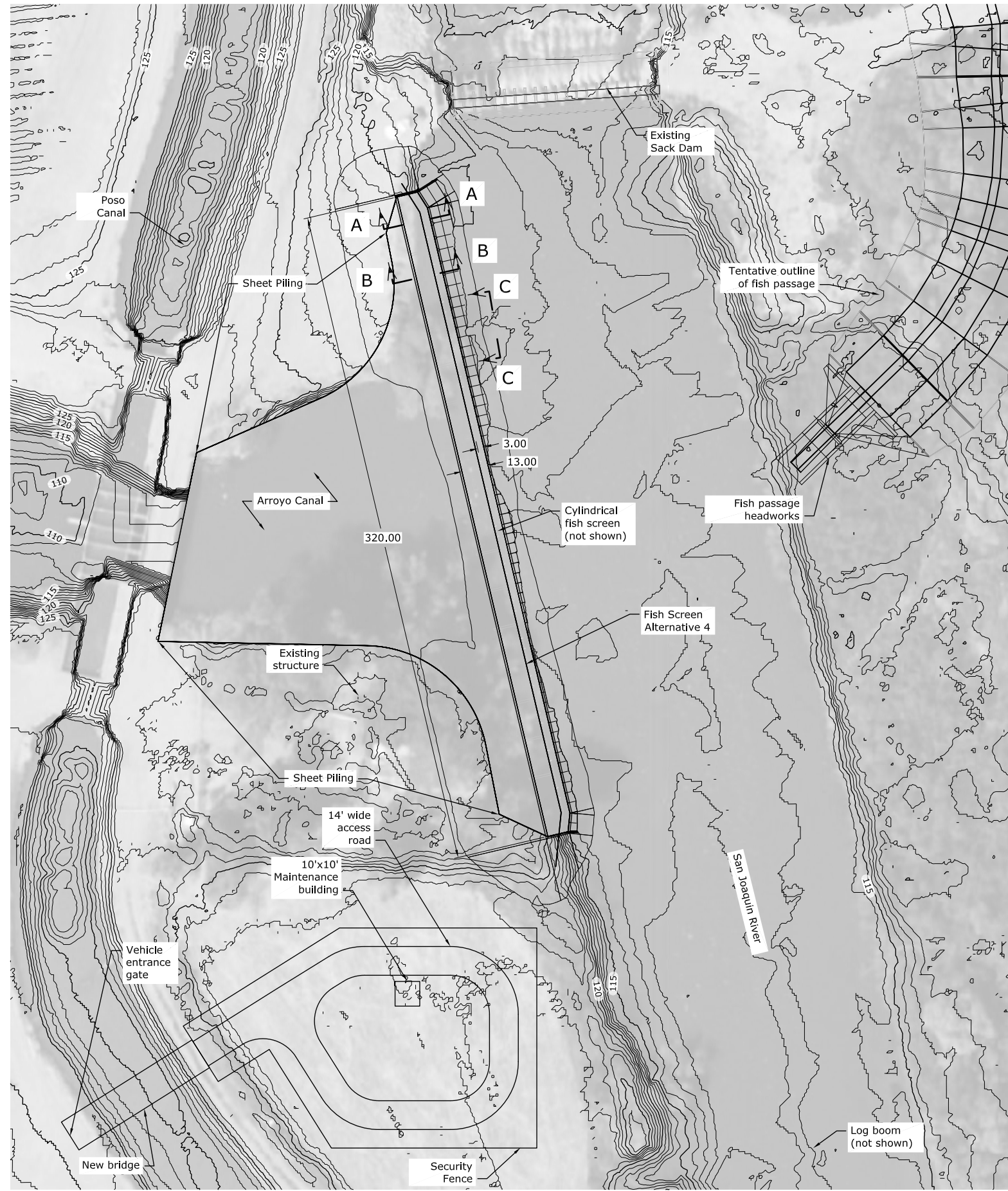
Designer	
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Author	
DRAWN	
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TECH. APPR.	
APPROVED	Approver
DENVER, CO	1/22/2021

**FISH SCREEN
ALTERNATIVE 1**

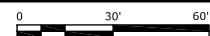
SECTIONS

T0002

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 DATE AND TIME PLOTTED: 3/2/2021 2:30:54 PM
 DESIGN PHASE: Project Status



PLAN



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CAD SYSTEM
AutoCAD 2015 (LMS TECH)
FISH SCREEN ALTERNATIVE 4.DWG

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GRAVITY DIVISION

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ARROYO CANAL FISH SCREEN

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	DENVER, CO
	01/26/2021

NOTES

- Elevations shown are based on 2015 LIDAR Data in NAVD88.
- For sections see T0006.

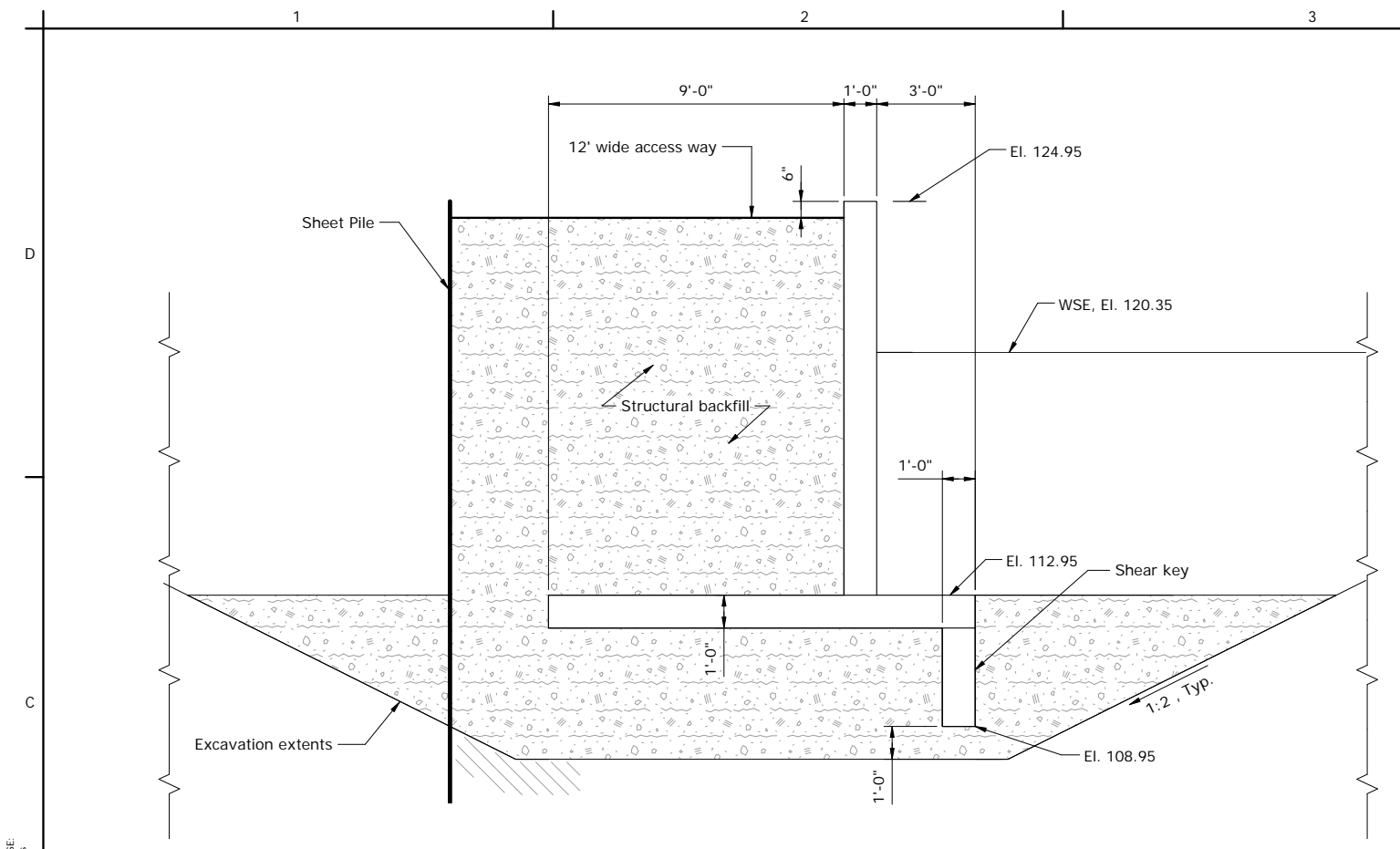
FISH SCREEN
ALTERNATIVE 4

PLAN

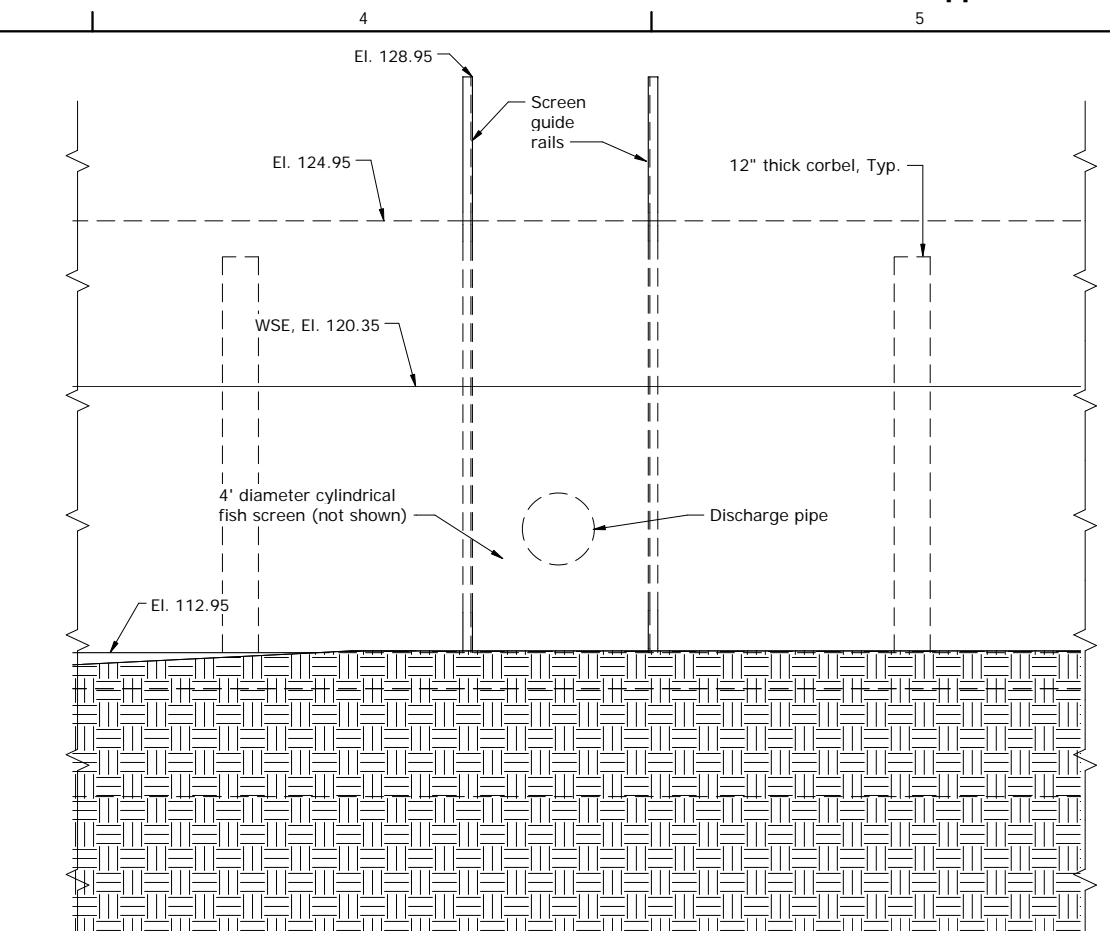
T0005

SHEET 1

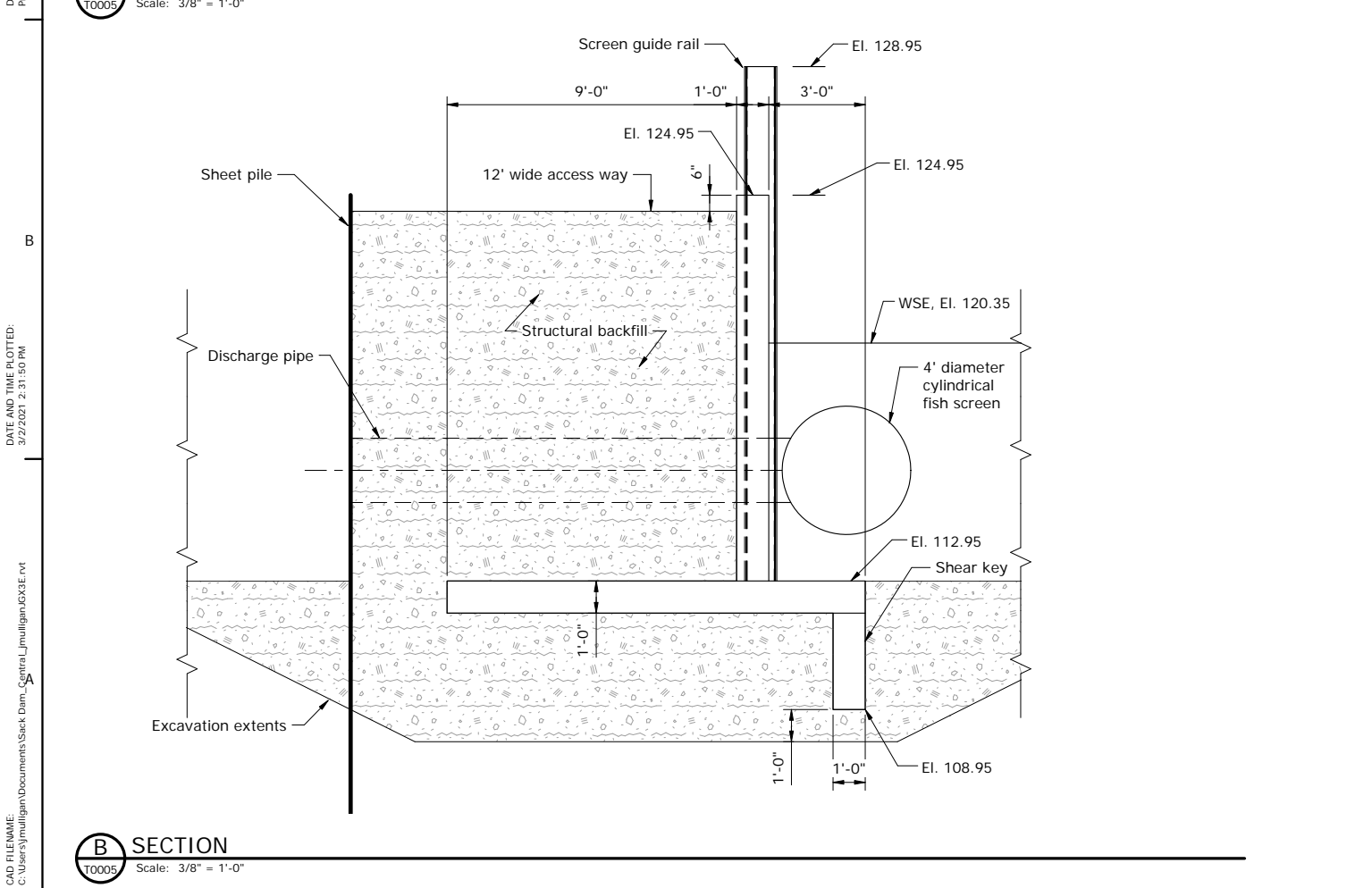
For Internal Use Only
 Draft
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A SECTION
T0005 Scale: 3/8" = 1'-0"



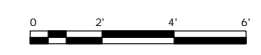
C SECTION
T0005 Scale: 3/8" = 1'-0"



B SECTION
T0005 Scale: 3/8" = 1'-0"

Notes

1. Elevations shown based on 2015 LiDAR Data in NAVD88.
2. For plan see T0005.



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 ARROYO CANAL FISH SCREEN
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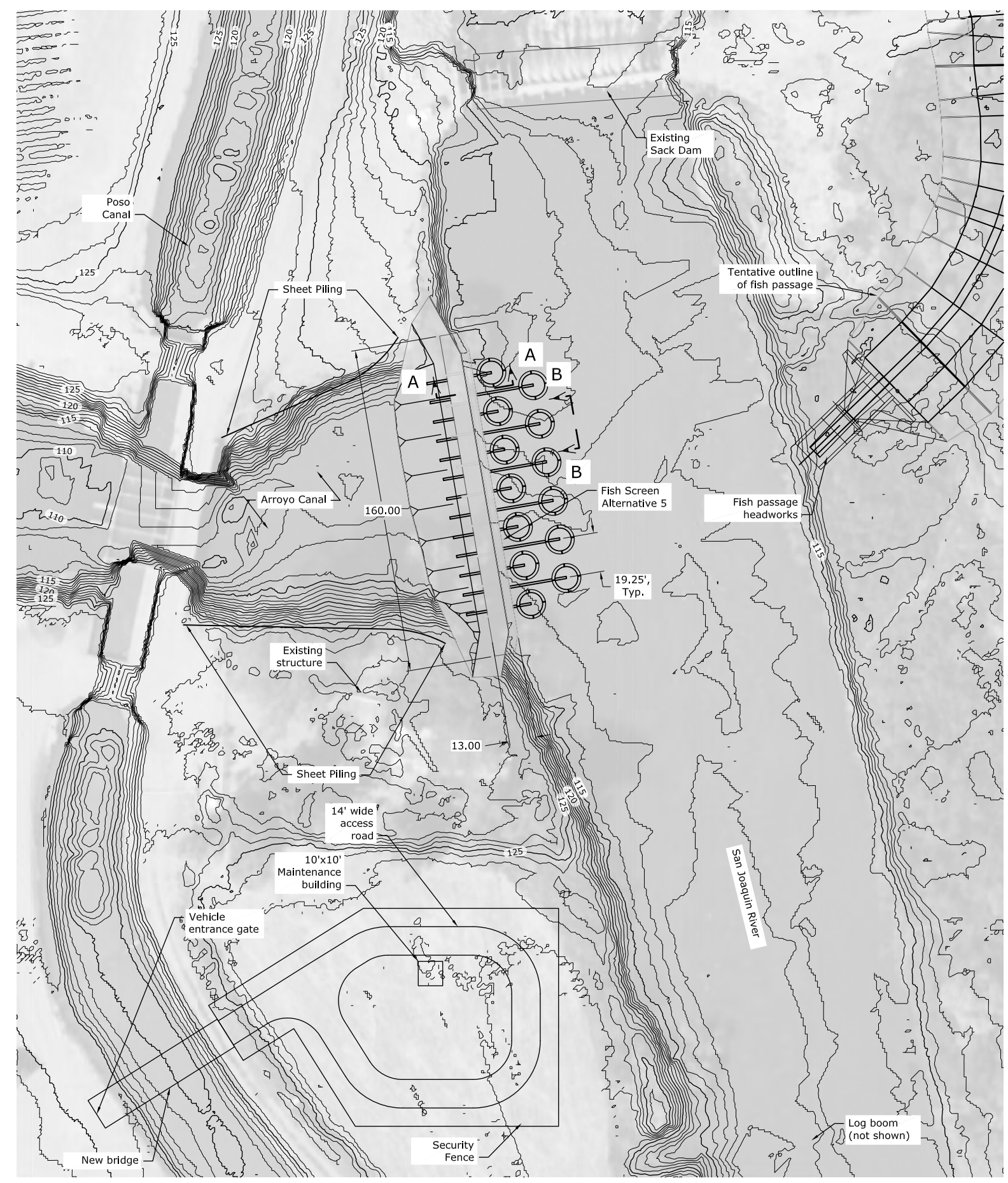
Designer	
DESIGNED	
Author	
DRAWN	
Checker	
CHECKED	
TECH. APPR.	
APPROVED	Approver
DENVER, CO	1/26/2021

FISH SCREEN ALTERNATIVE 4

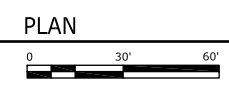
SECTIONS

T0006

DESIGN PHASE: Project Status
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 CAD SYSTEM: Revit 2016.3



CAD SYSTEM
 AutoCAD 2010 (LMS TECH)
 LAST SAVED DATE
 2021-02-08
 LAST SAVED BY
 JPLUGUEN



PLAN

NOTES

1. Elevations shown are based on 2015 LIDAR Data in NAVD88.
2. For sections see T0008.

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 GRAVITY DIVISION

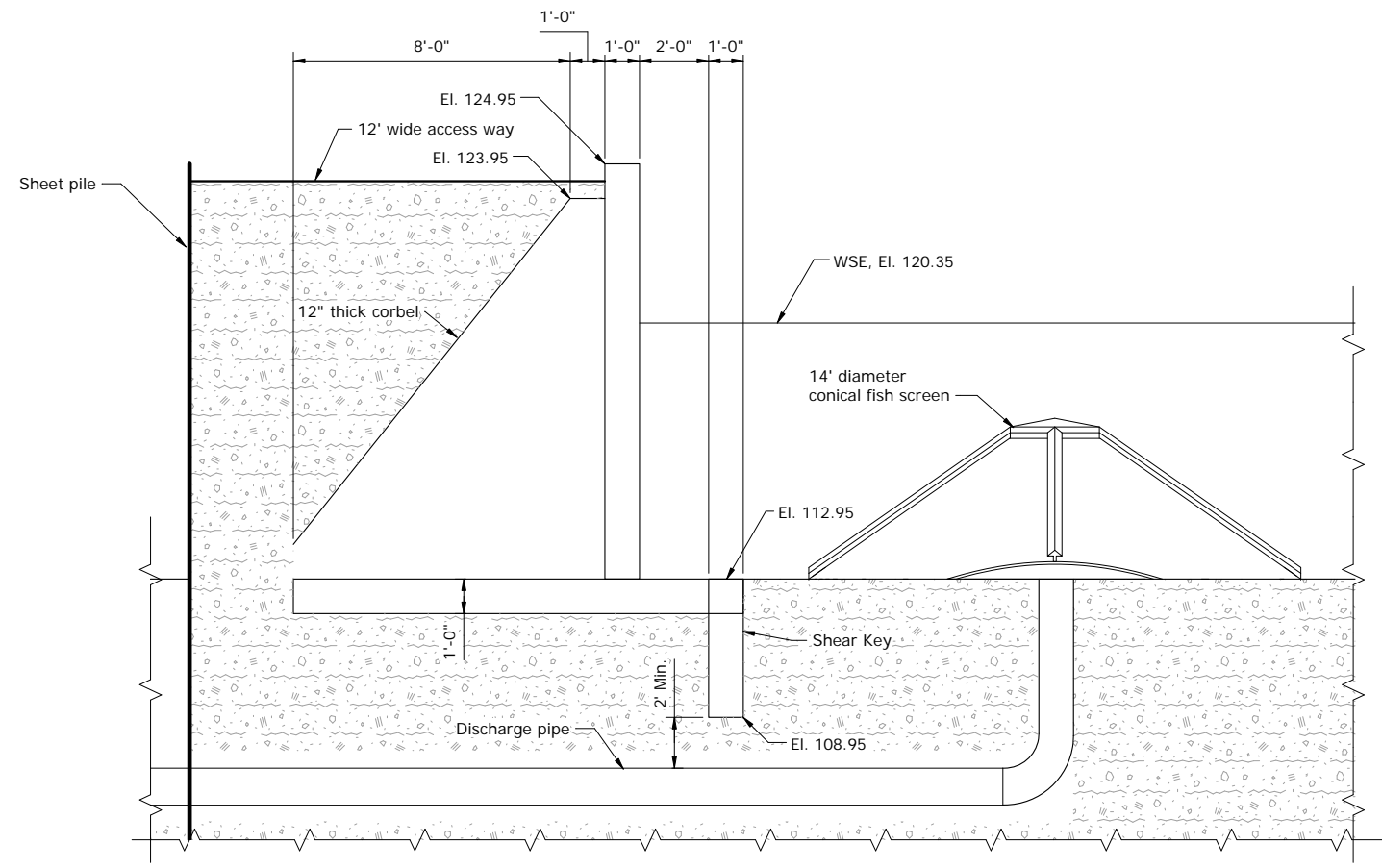
Draft
 SACK DAM & ARROYO CANAL
 ARROYO CANAL FISH SCREEN

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	DENVER, CO
	01/26/2021

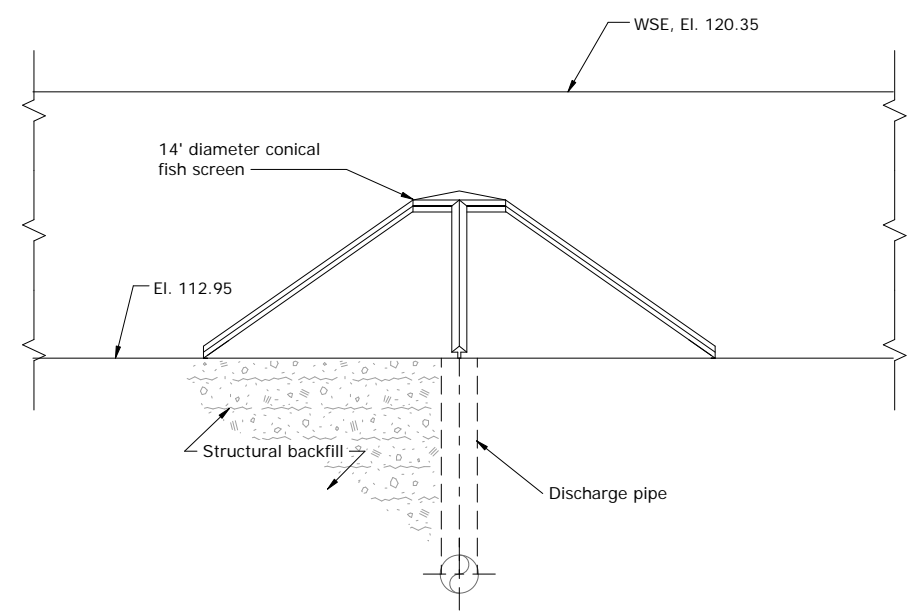
FISH SCREEN
ALTERNATIVE 5

PLAN

T0007
SHEET 1



A SECTION
T000 Scale: 3/8" = 1'-0"



B SECTION
T000 Scale: 3/8" = 1'-0"

Notes

1. Elevations shown based on 2015 LiDAR Data in NAVD88.
2. For plan see T000 .

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SAN JOAQUIN RIVER RESTORATION PROJECT
GRAVITY DIVISION

SACK DAM & ARROYO CANAL
ARROYO CANAL FISH SCREEN

Designer	
DESIGNED	
Author	
DRAWN	
Checker	
CHECKED	
TECH. APPR.	
APPROVED	Approver
DENVER, CO	1/22/2021

**FISH SCREEN
ALTERNATIVE**

SECTIONS

T000

CAD SYSTEM: Revit 2016.3
 CAD FILENAME: C:\Users\jmuligan\Documents\Sack Dam_Serial_Ljmuligan\K03E.rvt
 DESIGN PHASE: Project Status
 DATE AND TIME PLOTTED: 3/2/2021 2:32:59 PM

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NOTES

1. INSTALL MBGR STANDARD CAL TRANS RAILING SECTION (WOOD POST WITH WOOD BLOCK) PER CALTRANS STD PLAN A77A1. INSTALL METAL RAILING ANCHOR ASSEMBLY (TYPE SFT) WITH 6" FOUNDATION TUBE AND NO SOIL PLATE, AT ALL ENDS OF MBGR PER CALTRANS STD PLAN A77H1.
2. FOR STRUCTURE CONTROL POINT TABLE AND LOCATION / GRADING SEE DWG 03-C-04.
3. FOR "C1" LINE PROFILE, SEE DWG 03-C-07.

REGISTERED PROFESSIONAL ENGINEER
 BECKY K. CHELONIS
 CIVIL
 LICENSE NO. C59851
 STATE OF CALIFORNIA
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NO.	DATE	DR	CHK	REVISION	BY	APVD	B MEMO

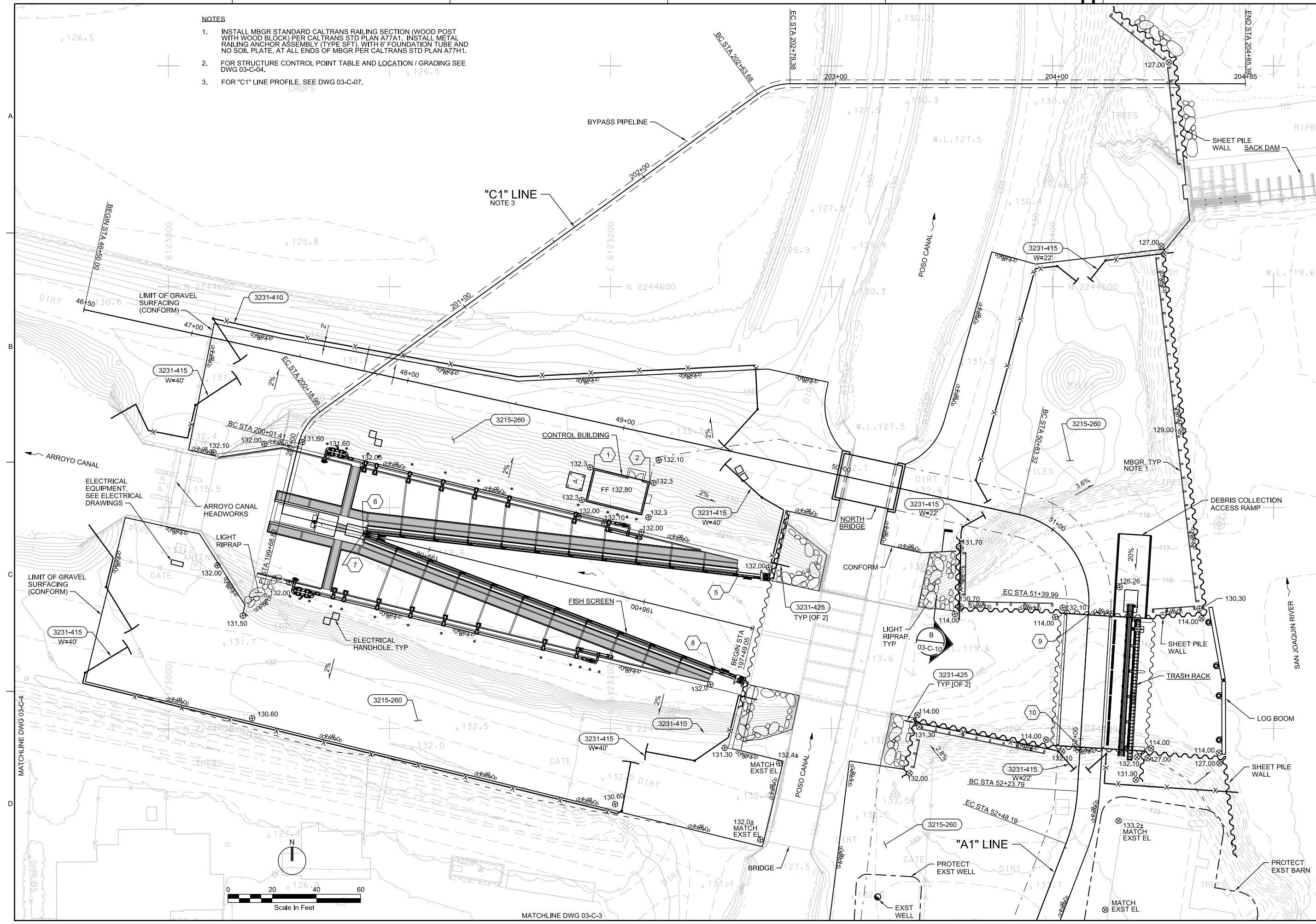
2525 AIRPARK DR
 REDDING CA, 96001
 PHONE: (530) 243-8831

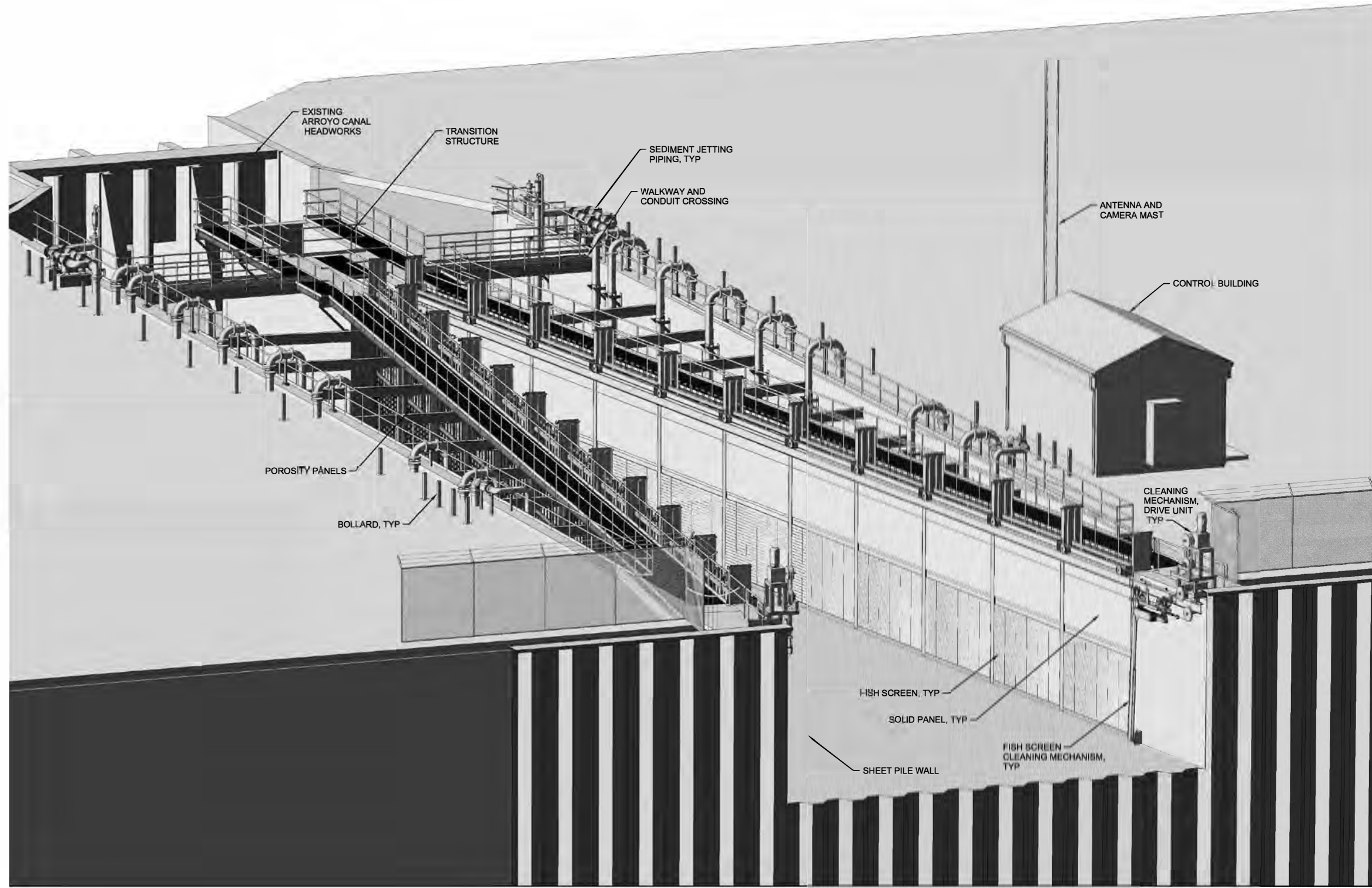
HMRD No. 2131
 ARROYO CANAL FISH SCREEN
 AND SACK DAM FISH PASSAGE
 PROJECT

CIVIL
ch2m
 SITE PLAN - NORTH

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING.
 DATE NOVEMBER 20, 2020
 PROJ 702641
 DWG 03-C-2
 SHEET of

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NORTH WEST VIEW
 NTS

REGISTERED PROFESSIONAL ENGINEER
 JEREMY A. KELLOGG
 STRUCTURAL
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NO.	DATE	DR	REVISION	BY	APVD
		J KELLOGG			B MEMEO
					M RANDALL
					D CAVE
					CHK
					APVD

2525 AIRPARK DR
 REDDING CA, 96001
 PHONE: (530) 243-5831

HMRD No. 2131
 ARROYO CANAL FISH SCREEN
 AND SACK DAM FISH PASSAGE
 PROJECT

ch2m.
 RENDERING

**FISH SCREEN
 VIEW LOOKING NORTH WEST**

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING
 0 1'

DATE	NOVEMBER 20, 2020
PROJ	702641
DWG	20-R-1
SHEET	of

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		J. KELLOGG	K. POPE		B. MEMEO
			M. RANDALL		

2525 AIRPARK DR
 REDDING CA, 96001
 PHONE: (530) 243-5831

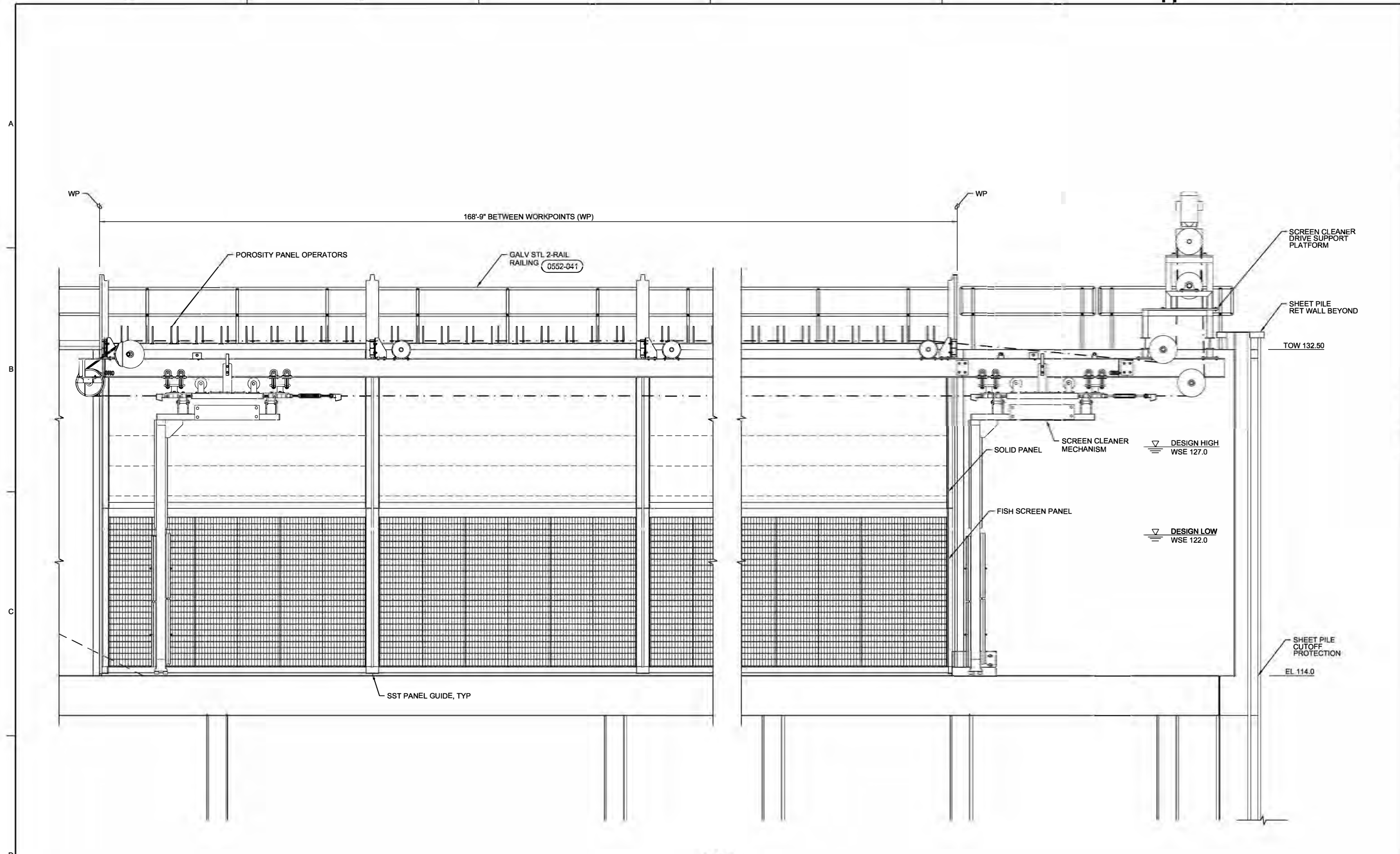
HMRD No. 2131
 ARROYO CANAL FISH SCREEN
 AND SACK DAM FISH PASSAGE
 PROJECT

ch2m
 STRUCTURAL

**FISH SCREEN
 LONGITUDINAL SECTION**

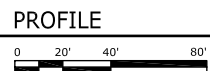
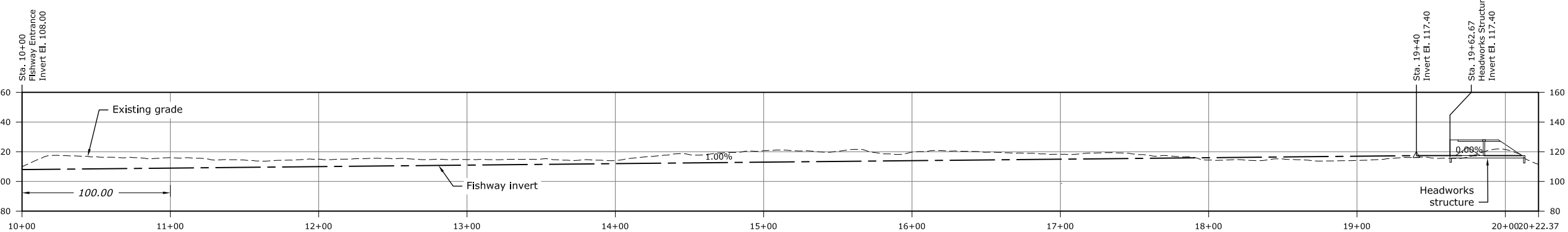
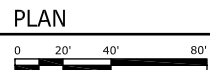
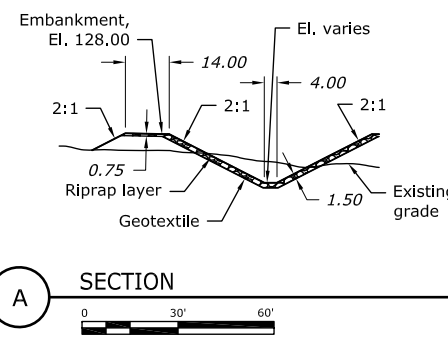
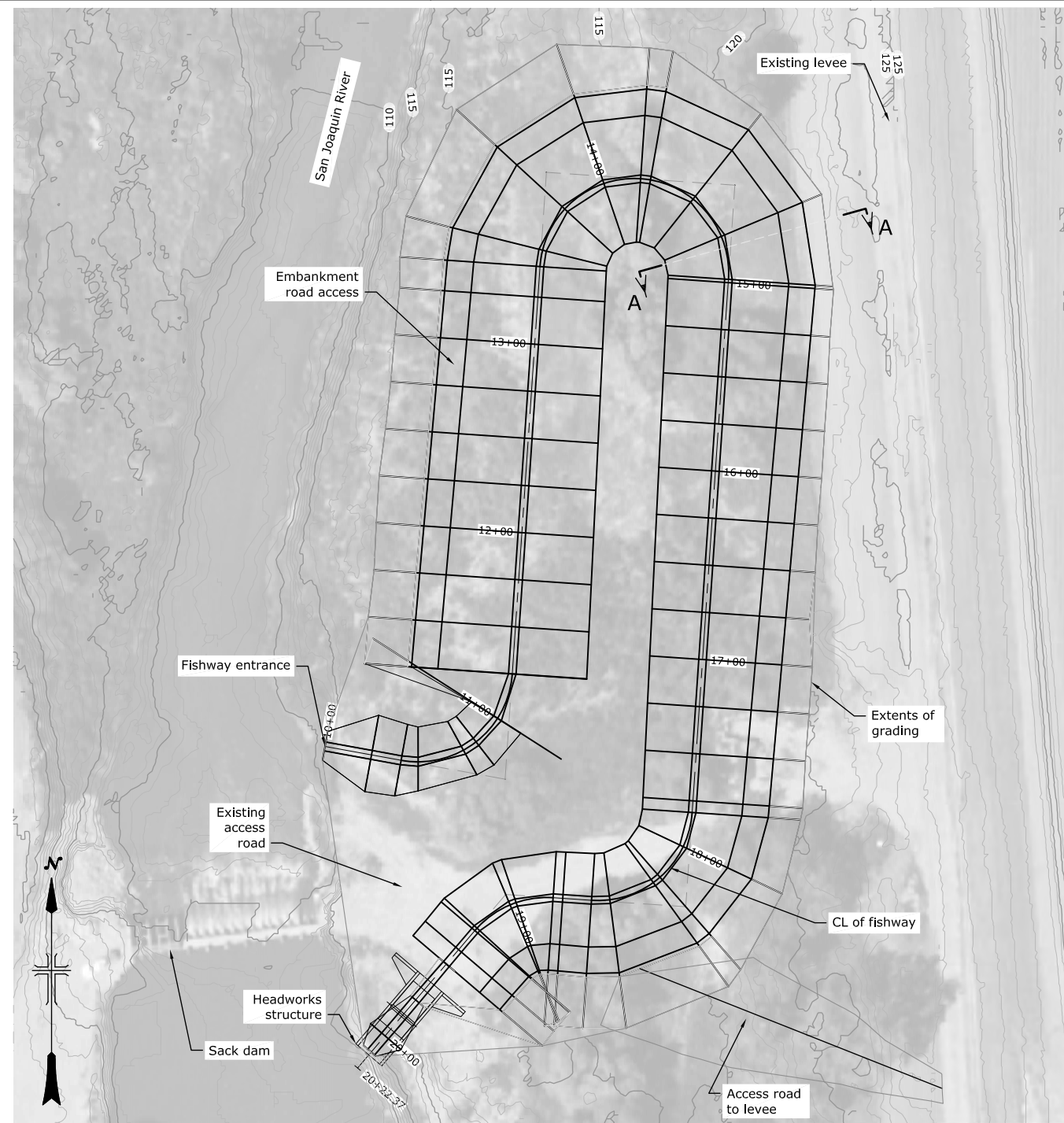
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DATE	NOVEMBER 20, 2020
PROJ	702641
DWG	20-S-7
SHEET	of

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PANEL BAY ELEVATION
 3/8"=1'-0"

- NOTES:**
- H PILES NOT SHOWN, SEE PILE PLAN.



LAST SAVED DATE: 2020-10-19
 LAST SAVED BY: JPL/UGM
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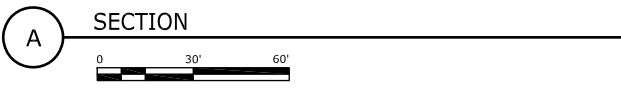
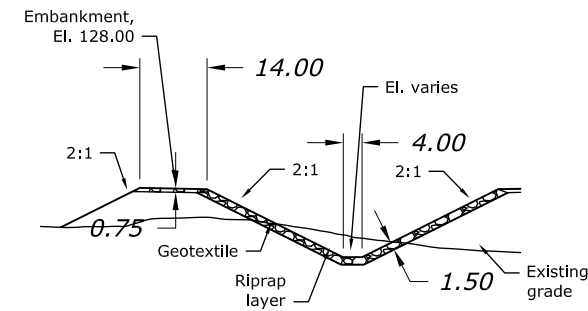
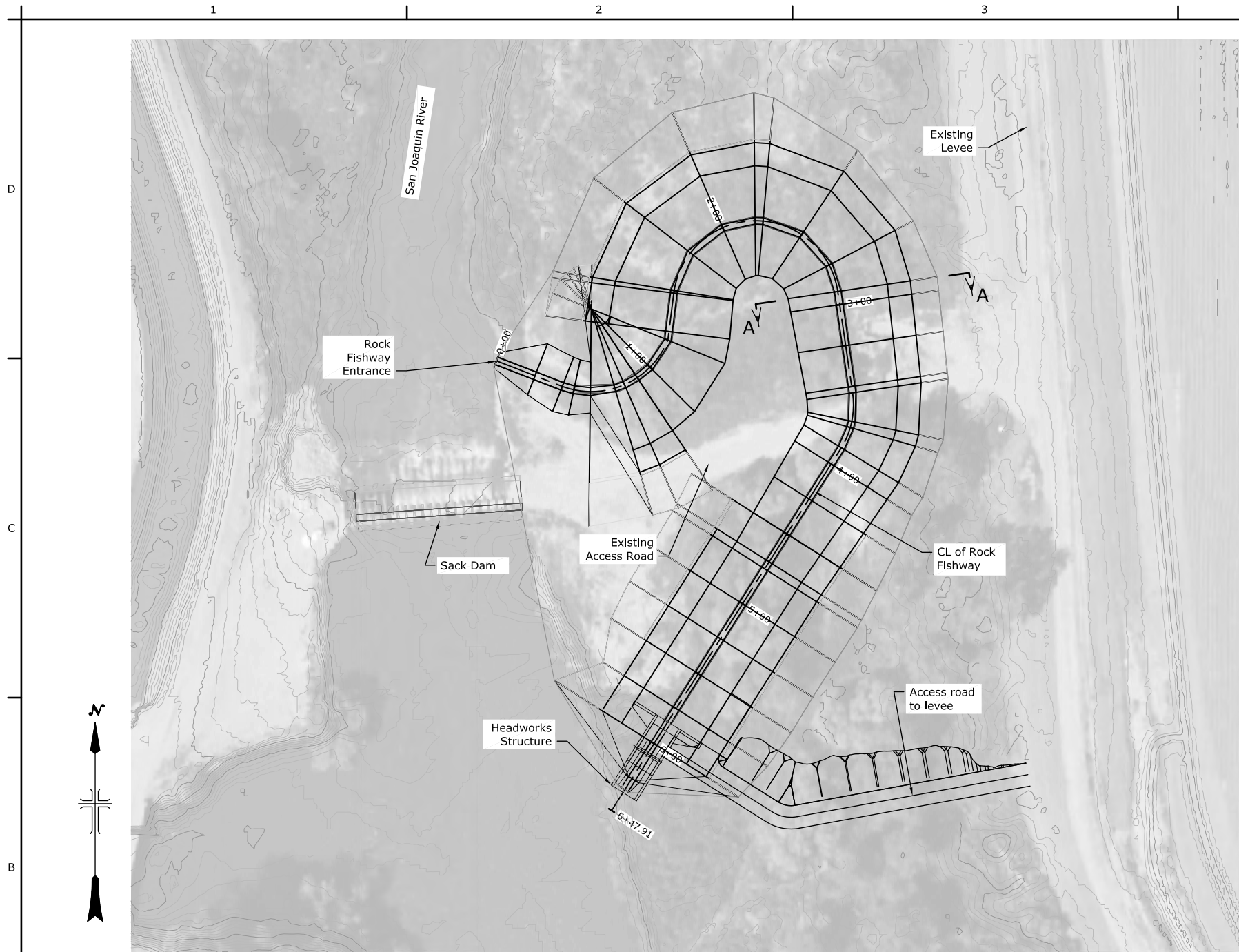
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 BUREAU OF RECLAMATION
 SAN JOAQUIN RIVER RESTORATION PROJECT
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 SACK DAM & ARROYO CANAL
 SACK DAM FISH PASSAGE
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ADMIN. APPROVAL - TITLE	
DENVER, CO	2020-10-21

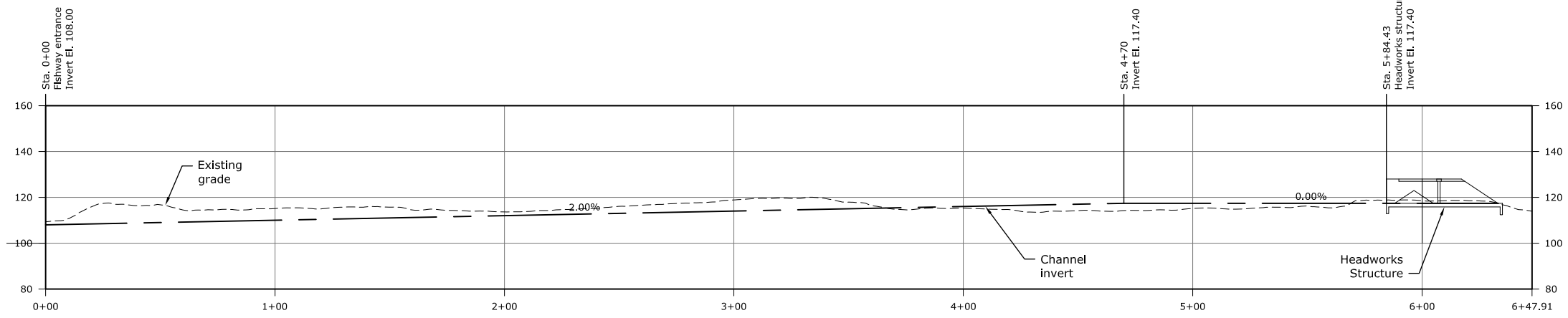
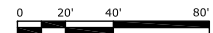
ROCK FISHWAY
ALTERNATIVE 1

PLAN, PROFILE, AND
SECTION

SACK1-1
SHEET 1



PLAN



PROFILE



LAST SAVED DATE: 2020-10-20
 LAST SAVED BY: JHULLGRI
 CAD SYSTEM: AutoCAD 2010 (LMS TECH)
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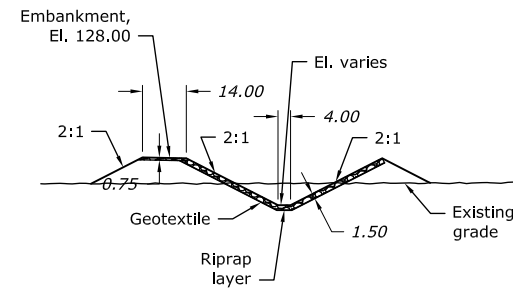
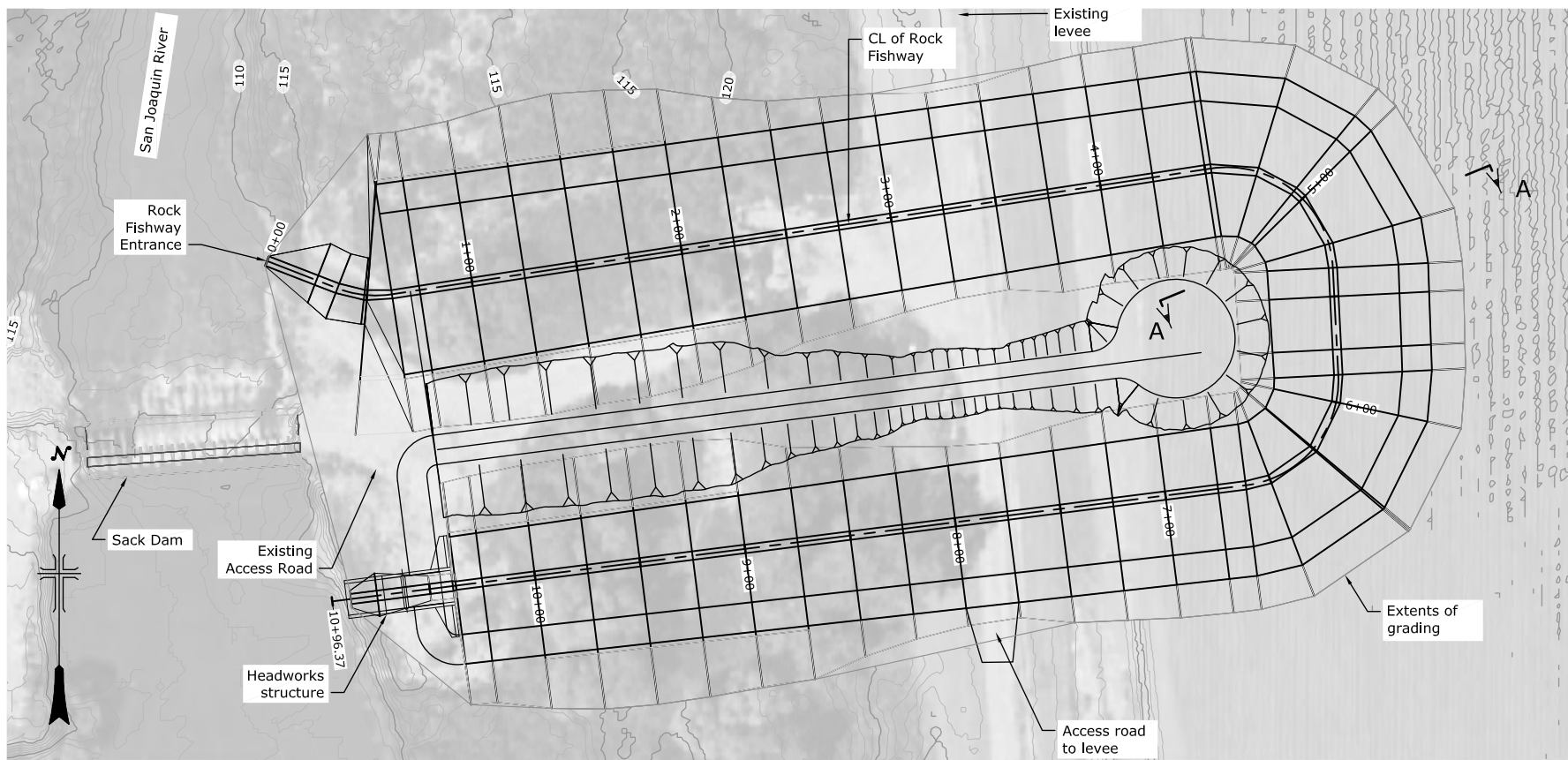
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 BUREAU OF RECLAMATION
 SAN JOAQUIN RIVER RESTORATION PROJECT
 GRAVITY DIVISION
 SACK DAM & ARROYO CANAL
 SACK DAM FISH PASSAGE
 Not For Distribution

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	DENVER, CO
	2020-10-21

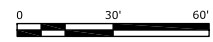
ROCK FISHWAY
ALTERNATIVE 2

PLAN, PROFILE, &
SECTION

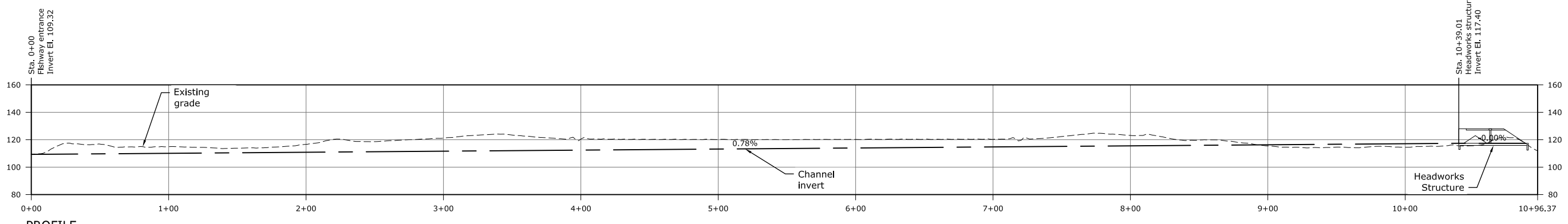
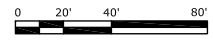
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SHEET 1



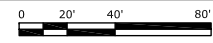
SECTION
A



PLAN



PROFILE



CAD SYSTEM
 AutoCAD 2010 (LMS TECH)
 LAST SAVED DATE
 2020-10-20
 LAST SAVED BY
 JHULLIGAN
 FISH PASSAGE ALTERNATIVE 3.DWG

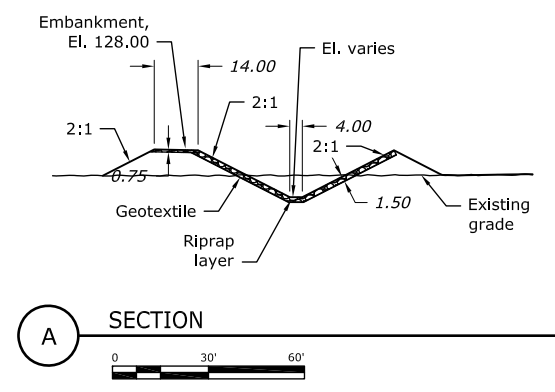
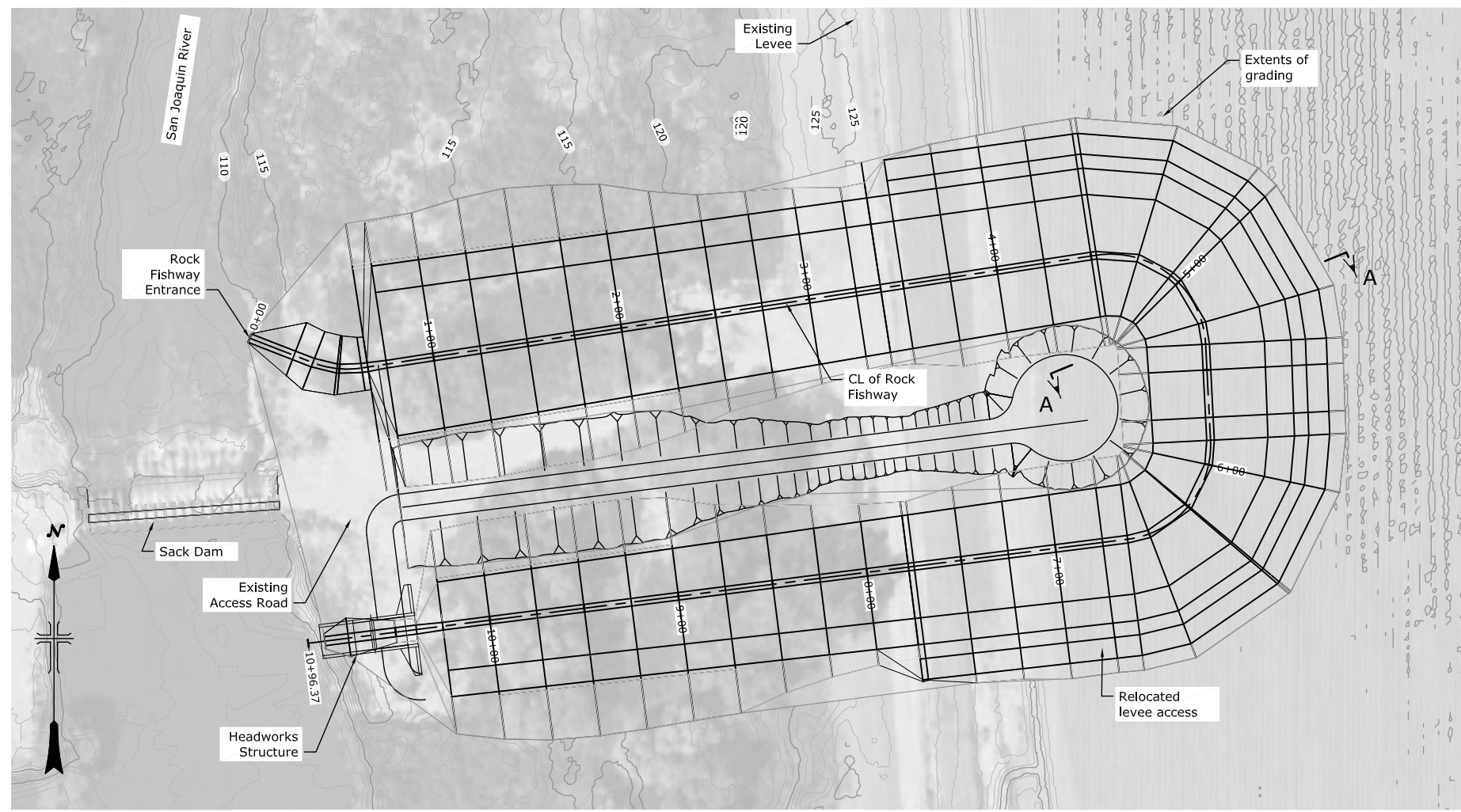
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X	APPROVED
	ADMIN APPROVAL - TITLE
	DENVER, CO
	2020-10-21

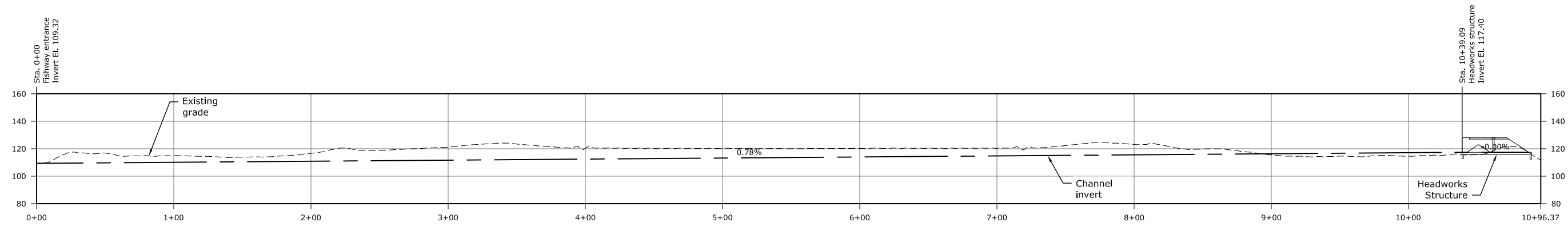
ROCK FISHWAY
ALTERNATIVE 3

PLAN, PROFILE, &
SECTION

SACK3-1
SHEET 1



PLAN
0 20' 40' 80'



PROFILE
0 20' 40' 80'

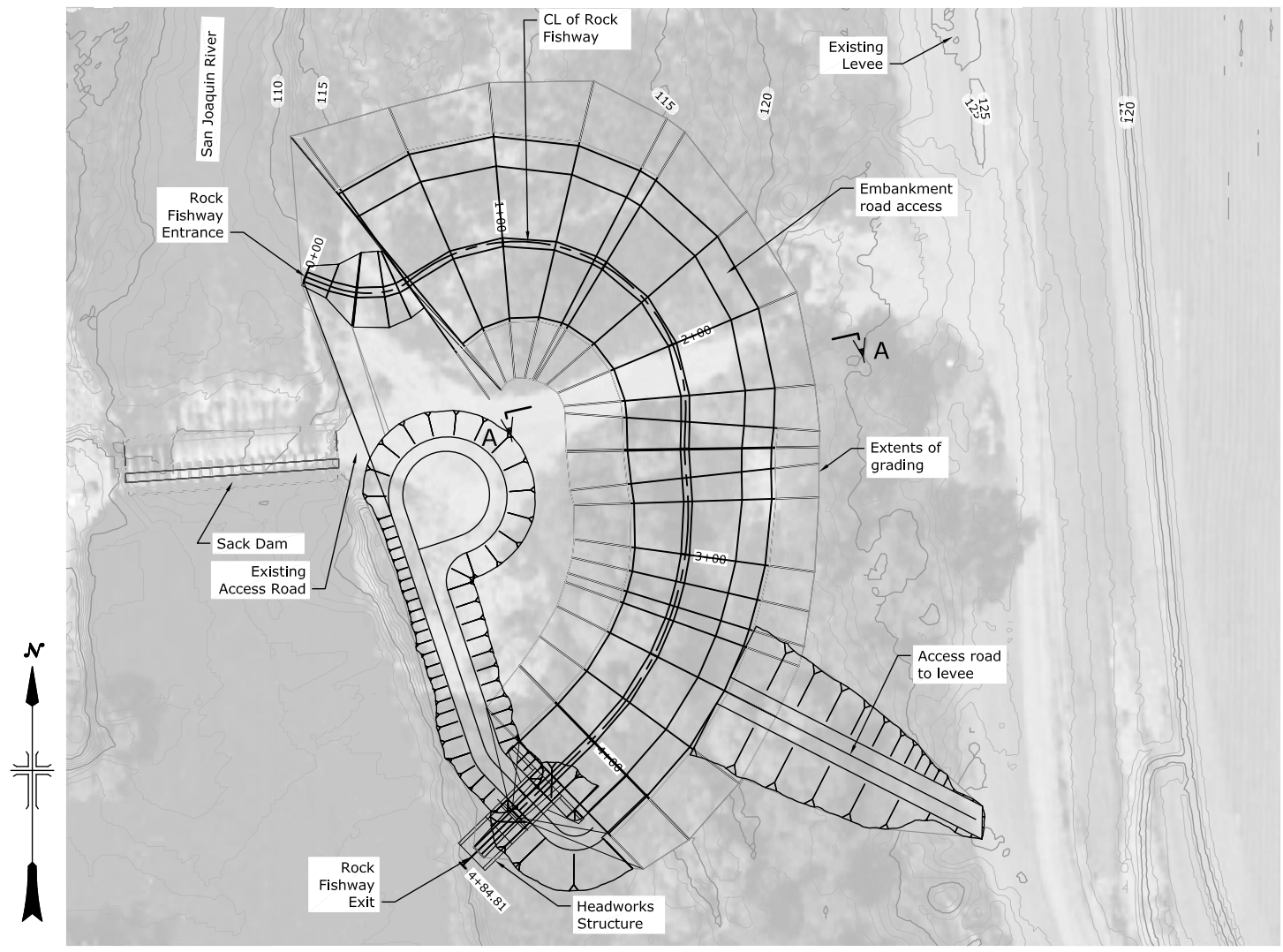
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 2020-10-21
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 FISH PASSAGE ALTERNATIVE 4.DWG

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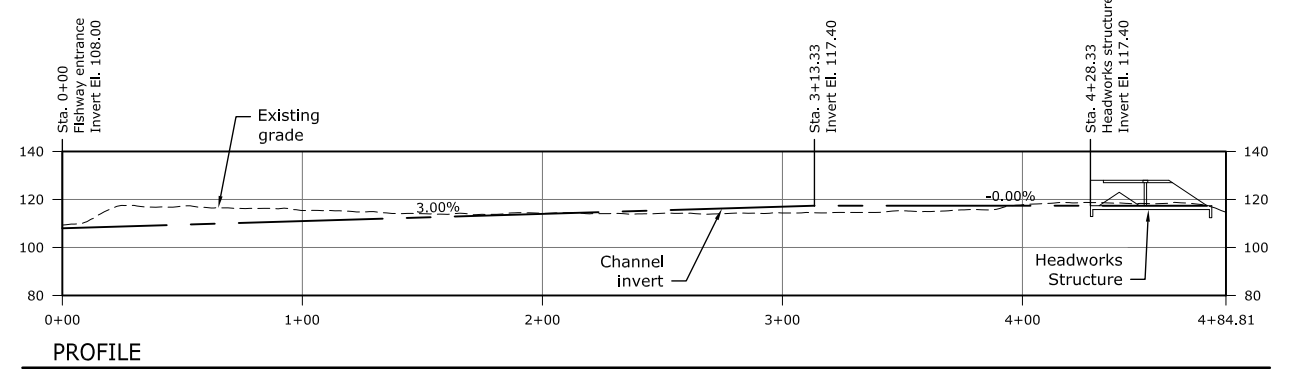
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ROCK FISHWAY
ALTERNATIVE 4

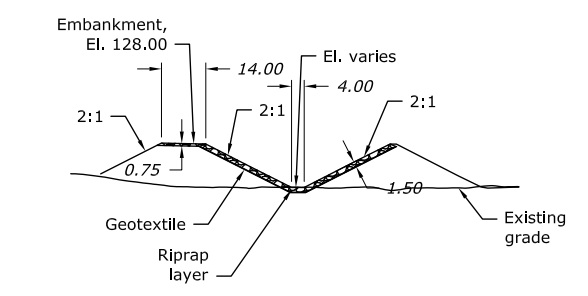
PLAN, PROFILE, &
SECTION



PLAN
0 20' 40' 80'



PROFILE
0 20' 40' 80'



A SECTION
0 30' 60'

LAST SAVED DATE: 2020-10-20
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 CAD SYSTEM: AutoCAD 23.05 (LMS TECH)
 FILE NAME: SACK5-1.dwg
 PROJECT: FISH PASSAGE ALTERNATIVE 5.DWG

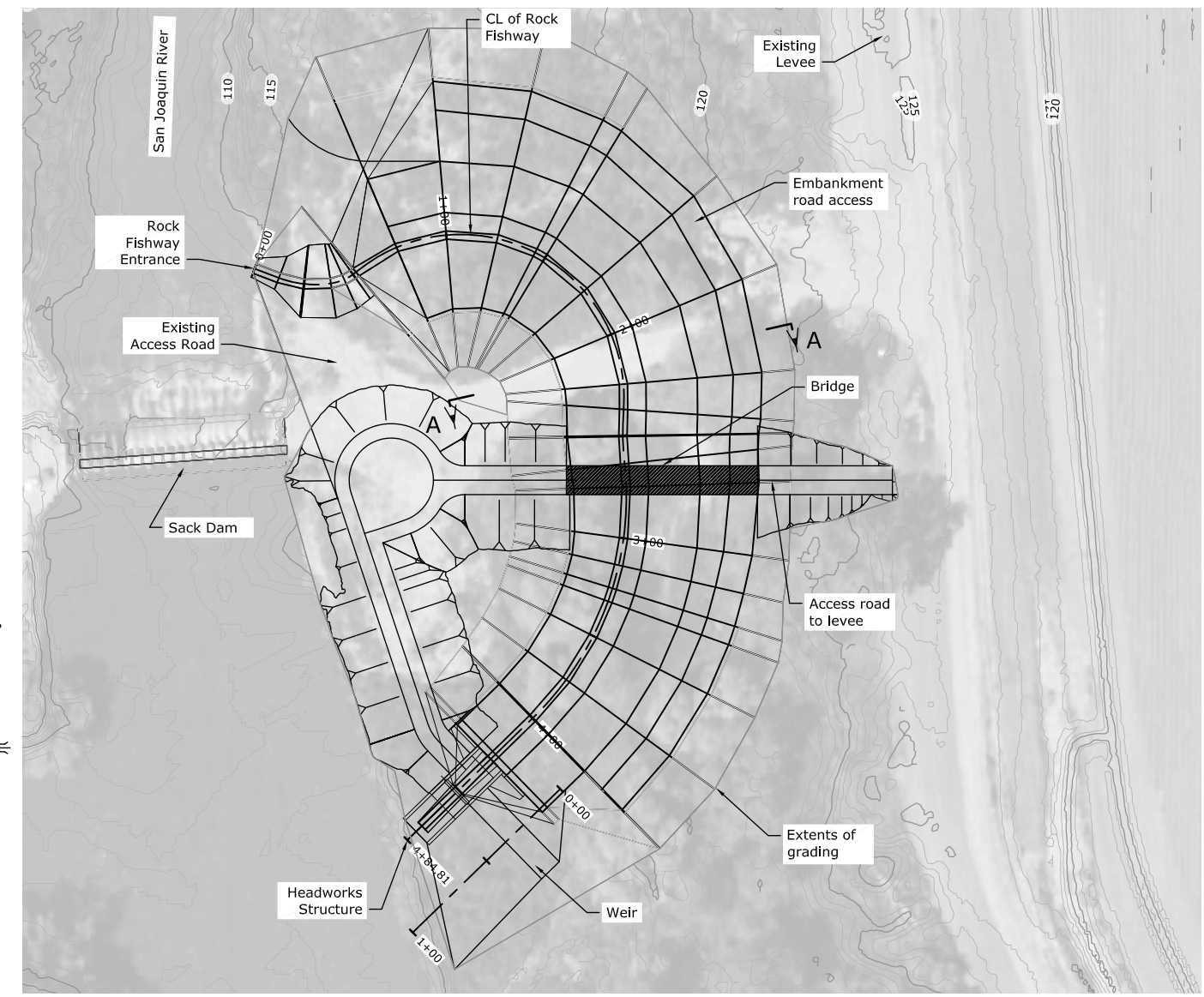
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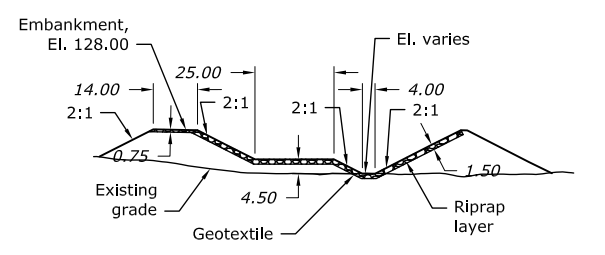
ROCK FISHWAY
ALTERNATIVE 5

PLAN, PROFILE, &
SECTION

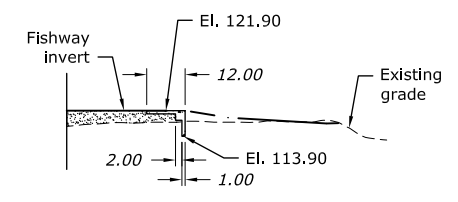
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SHEET 1



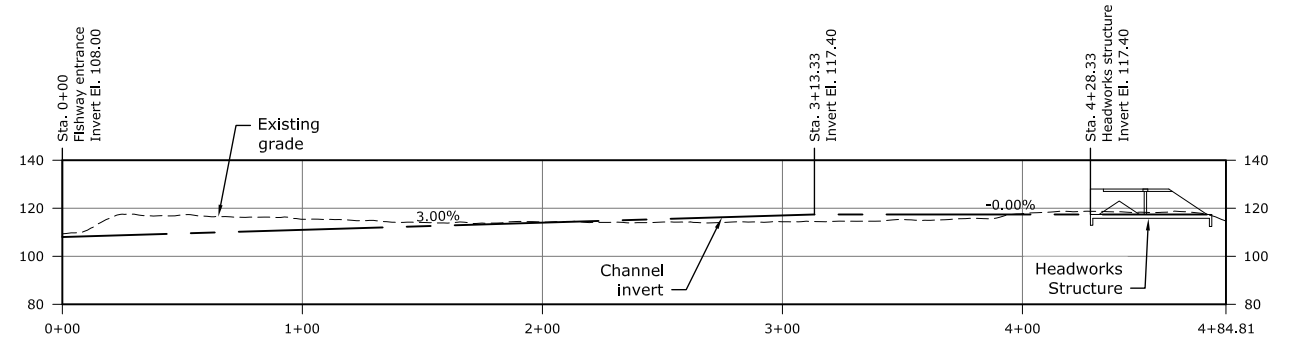
PLAN
0 20' 40' 80'



A SECTION
0 30' 60'



B SECTION
0 30' 60'



PROFILE
0 20' 40' 80'

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JHULLIGAN

CAD SYSTEM
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PROJECT: SACK DAM & ARROYO CANAL
SHEET: FISH PASSAGE ALTERNATIVE 6.DWG

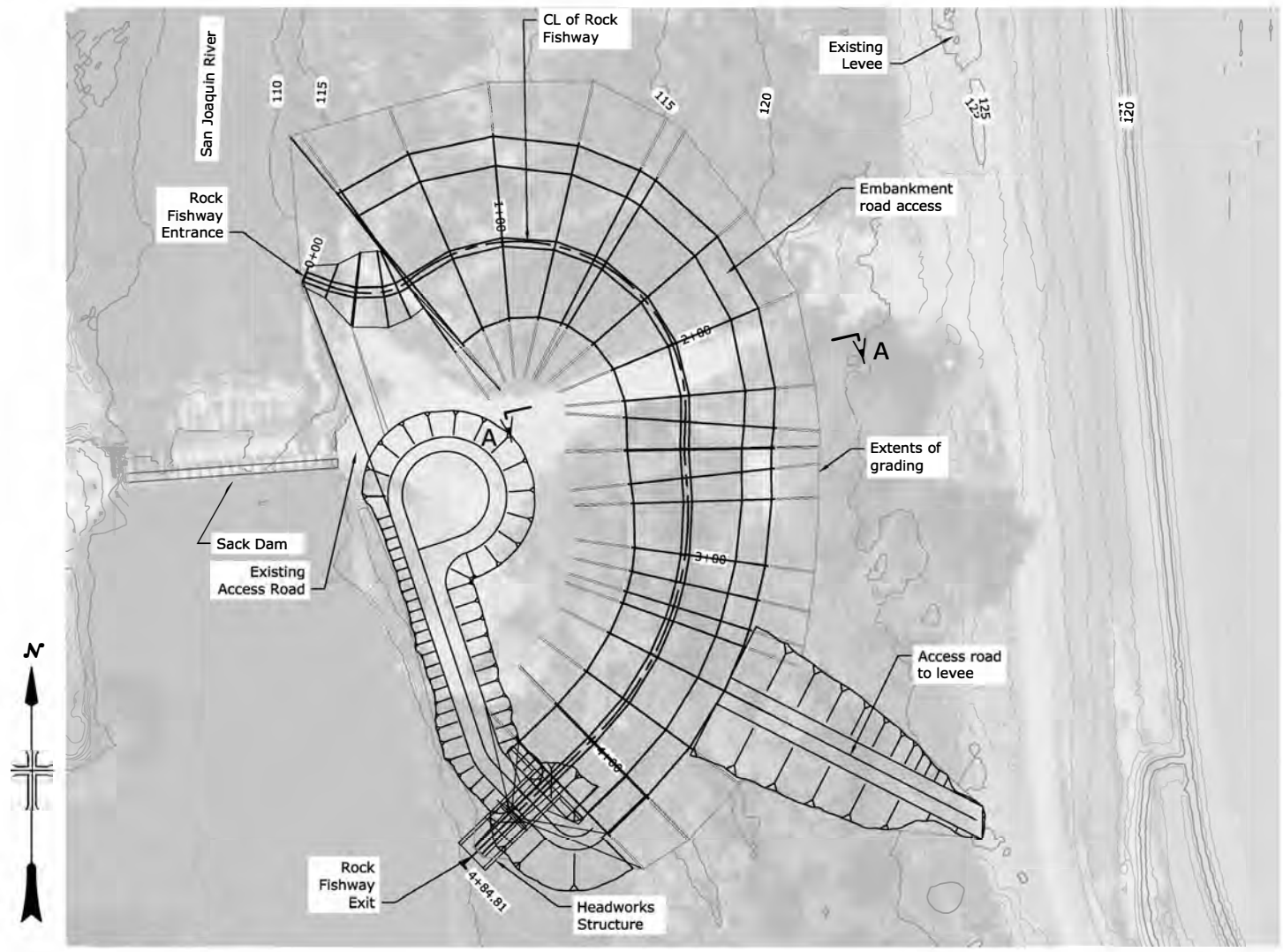
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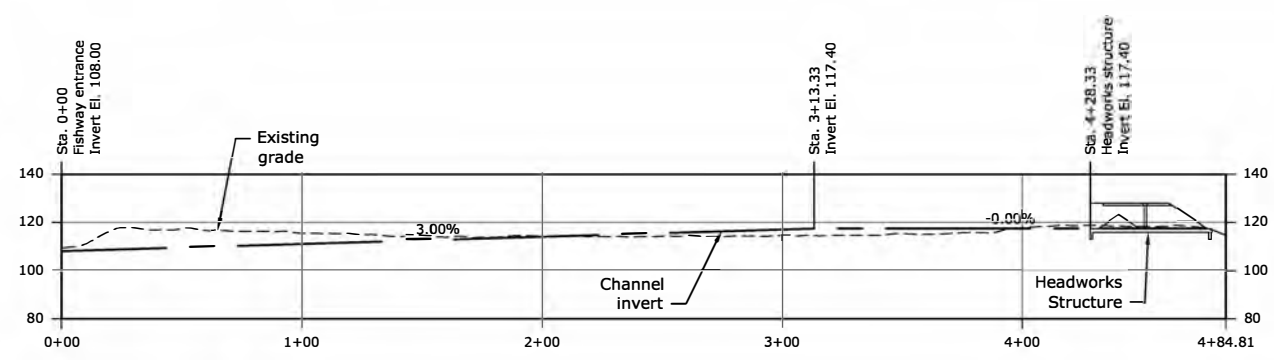
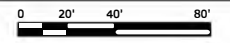
ROCK FISHWAY
ALTERNATIVE 6

PLAN, PROFILE, &
SECTION

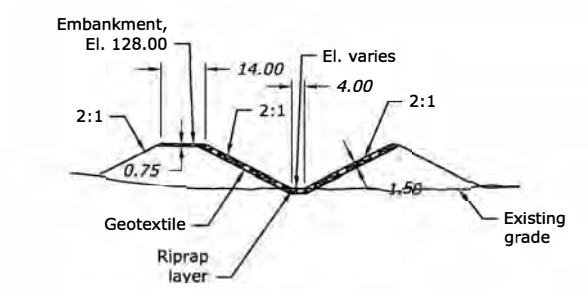
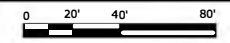
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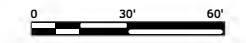
PLAN



PROFILE



A SECTION



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 LAST SAVED BY: ARJULGAT
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 SACK DAM FISH PASSAGE

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ROCK FISHWAY
ALTERNATIVE 7

PLAN, PROFILE, &
SECTION

SACK7-1
SHEET 1