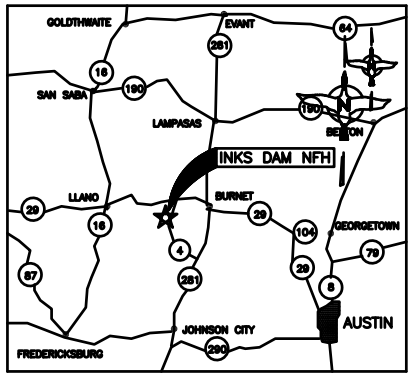
UNITED STATES DEPARTMENT OF THE INTERIOR
U. S. FISH & WILDLIFE SERVICE

INKS DAM NATIONAL FISH HATCHERY

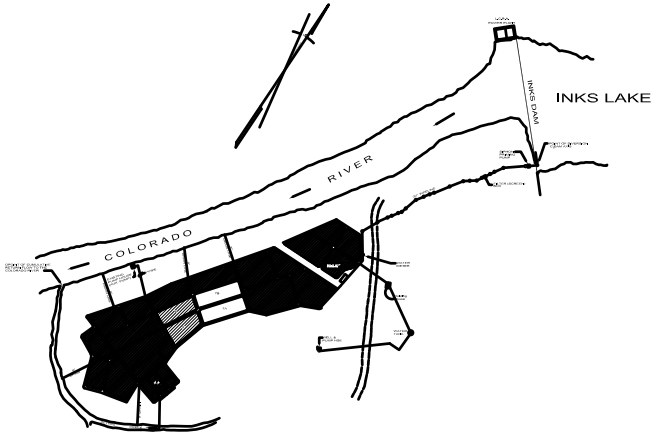
BURNET COUNTY TEXAS

REPLACE KETTLES 7A & 7B, 2026

ASSET NO: 10006226 10006227



VICINITY MAP
N.T.S.



SITE PLAN

	INDEX OF DRAWINGS
SEQ.	TITLE
1	TITLE SHEET
2	EXISTING SITE PLAN
3	SITE PLAN
4	TYPICAL KETTLE PLAN
5	SECTIONS B, C, & F
6	SECTIONS A, D, & E
7	DETAILS - DRAIN, BASE & PIPE TRENCH
8	DETAILS - THRUST BLOCK & DEAD MAN
9	DETAILS - CANAL GATE & SCREEN
10	DETAILS - GRATE & GUARDRAIL
11	DETAILS - CONCRETE
12	DETAILS - COUPLER & VALVE

APPROVALS

HATCHERY MANAGER

FISHERIES PROGRAM SUPERVISOR

CHIEF, FMC

CHIEF, INFRASTRUCTURE MANAGEMENT

PROJECT MANAGER

ENVIRONMENTAL COMPLIANCE

NA

CULTURAL RESOURCES

NA

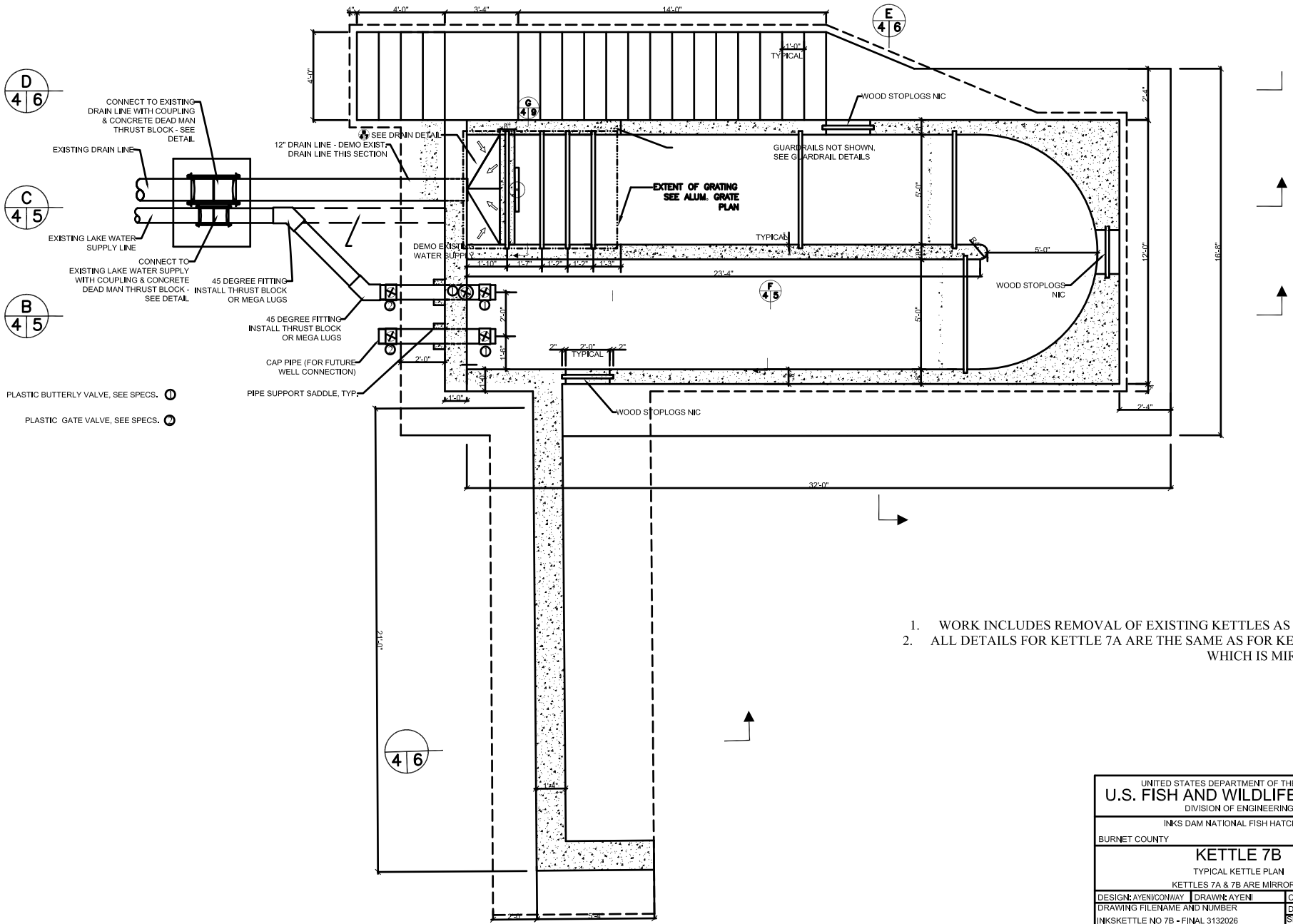
ENERGY COMPLIANCE

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. FISH AND WILDLIFE SERVICE
DIVISION OF ENGINEERING

INKS DAM NATIONAL FISH HATCHERY
BURNET COUNTY TEXAS

REPLACE KETTLES 7A & 7B, 2026
TITLE SHEET
LOCATION MAP, DRAWING INDEX

DESIGN: AYENI/CONWAY	DRAWN: AYENI
CHECK: CONWAY	
DRAWING FILENAME AND NUMBER	DATE: 2/4/2026
INKSKETTLE NO 7B - FINAL 3132026	SHT. NO. / SEQ. NO.
2X-TX-252-65.0	TITLE / 1 OF 12



NOTES:

1. WORK INCLUDES REMOVAL OF EXISTING KETTLES AS SHOWN.
2. ALL DETAILS FOR KETTLE 7A ARE THE SAME AS FOR KETTLE 7B WHICH IS MIRRORED.

UNITED STATES DEPARTMENT OF THE INTERIOR
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DIVISION OF ENGINEERING

INKS DAM NATIONAL FISH HATCHERY

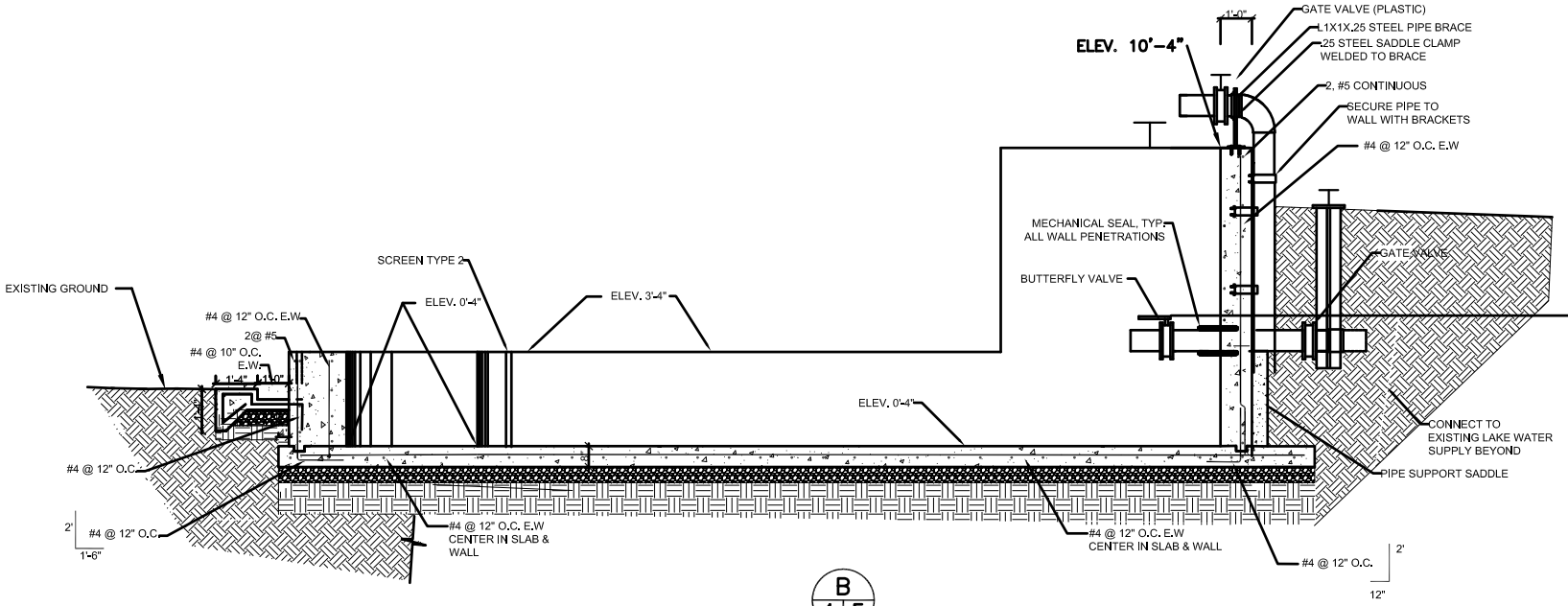
BURNET COUNTY TEXAS

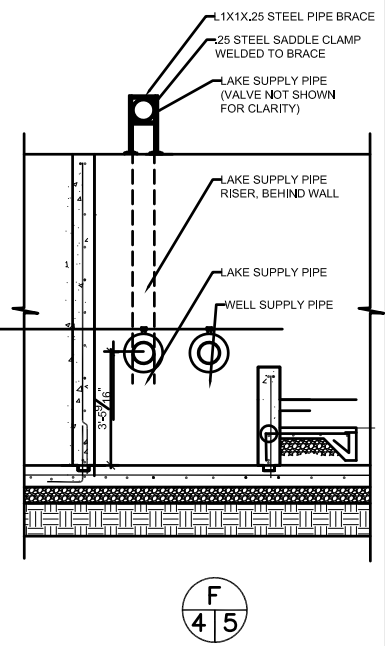
KETTLE 7B

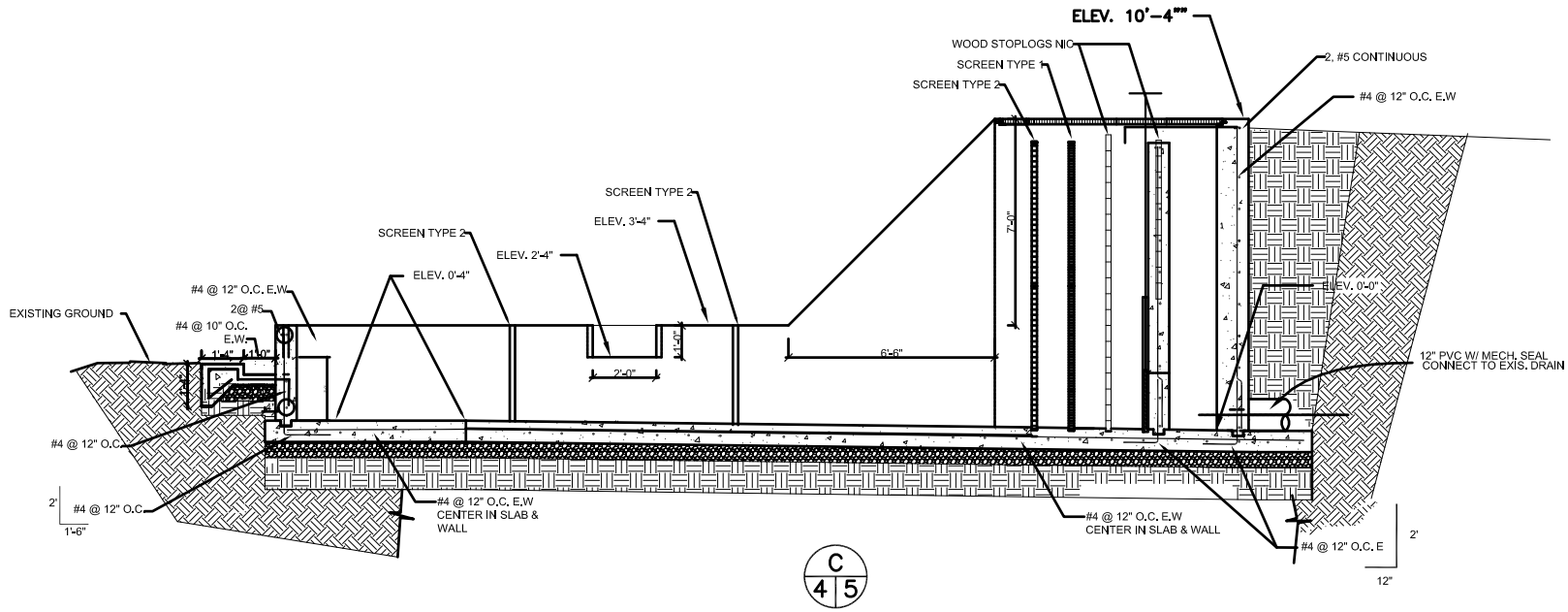
TYPICAL KETTLE PLAN

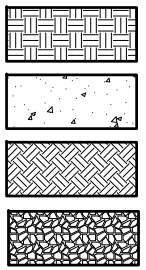
KETTLES 7A & 7B ARE MIRRORED

DESIGN: AYENI/CONWAY	DRAWN: AYENI	CHECK: CONWAY/AHN
DRAWING FILENAME AND NUMBER		DATE: 2/19/2026
INKSKETTLE NO 7B - FINAL 3132026	SHT. NO.	SEQ. NO.
2F-TX-252-	4	4 OF 12









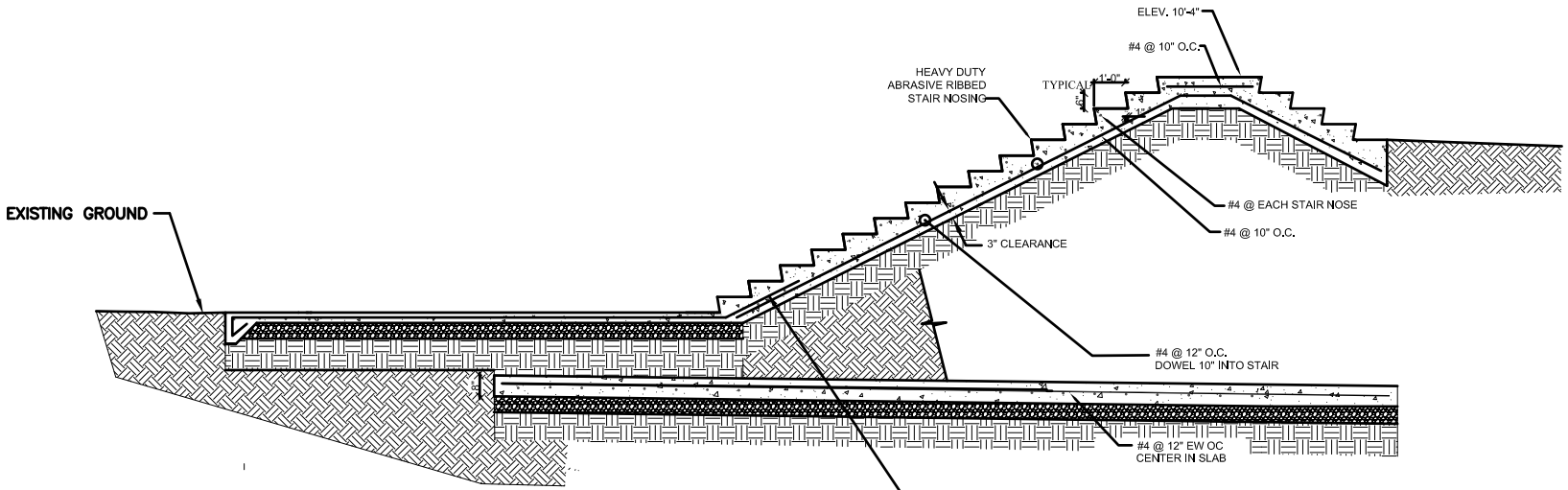
UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. FISH AND WILDLIFE SERVICE
DIVISION OF ENGINEERING

INKS DAM NATIONAL FISH HATCHERY
BURNET COUNTY TEXAS

KETTLE 7A

SECTIONS B, C & F

DESIGN: AYENI/CONWAY	DRAWN: AYENI	CHECK: CONWAY/AHN
DRAWING FILENAME AND NUMBER		DATE: 2/19/2026
INKSKETTLE NO 7B - FINAL 3132026	SHT. NO. 5B	SEQ. NO. 5B OF 12
2F-TX-252-65.0		



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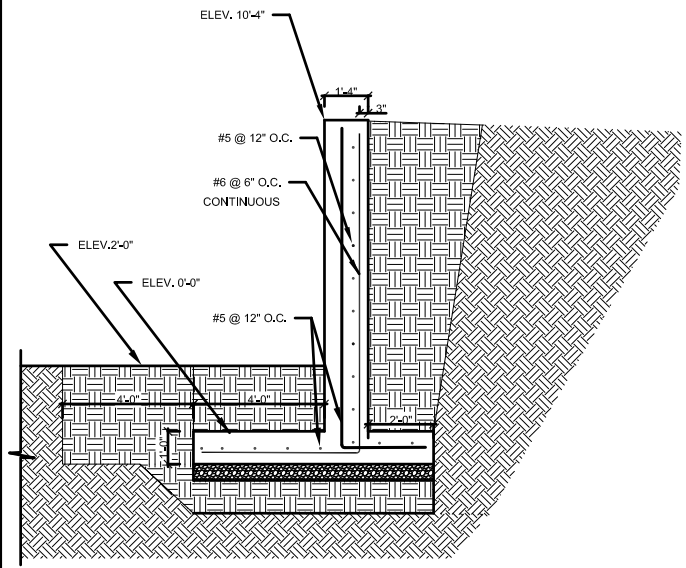
4 6



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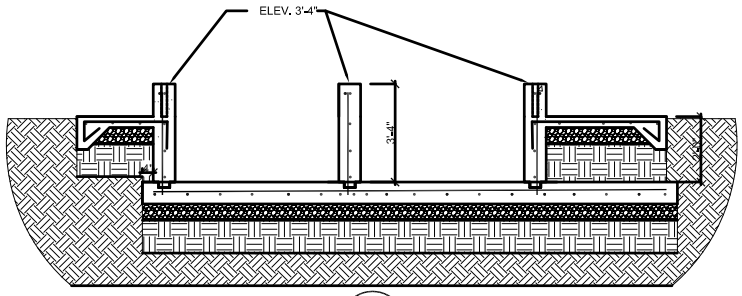

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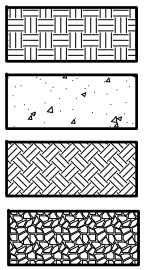
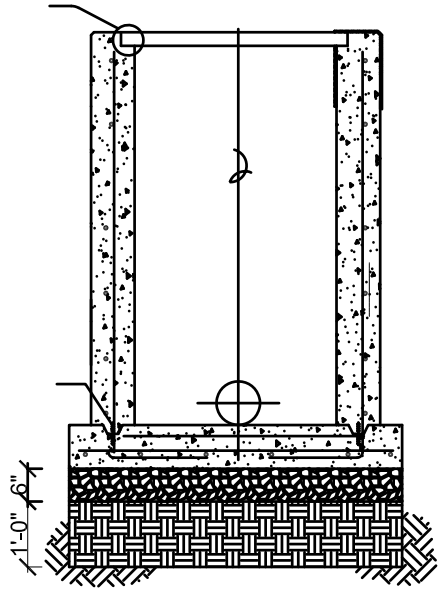


UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. FISH AND WILDLIFE SERVICE
DIVISION OF ENGINEERING

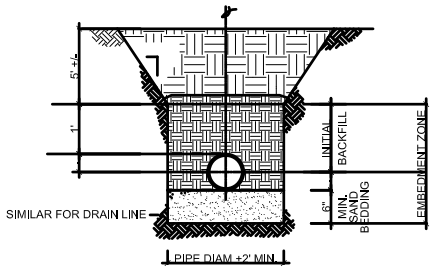
INKS DAM NATIONAL FISH HATCHERY
BURNET COUNTY TEXAS

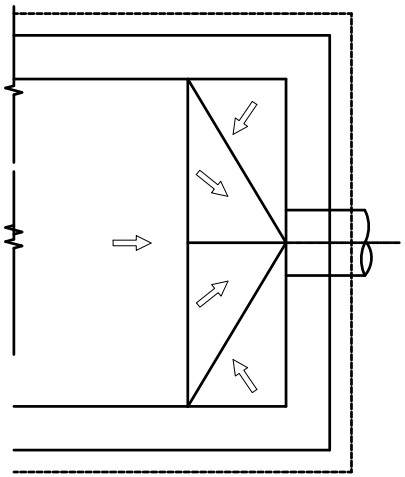
KETTLE 7A
SECTIONS A D & E

DESIGN: AYENI/CONWAY	DRAWN: AYENI	CHECK: CONWAY/AHN
DRAWING FILENAME AND NUMBER		DATE: 2/19/2026
INKSKETTLE NO 7B - FINAL 3132026		SHT. NO. 6 / SEQ. NO. 6 OF 12
2F-TX-252-		



TYPICAL SUBGRADE/BASE TREATMENT





DRAIN DETAIL H 4|7

UNITED STATES DEPARTMENT OF THE INTERIOR
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DIVISION OF ENGINEERING

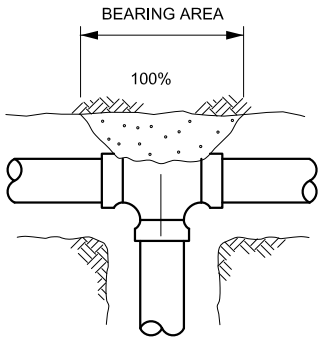
INKS DAM NATIONAL FISH HATCHERY

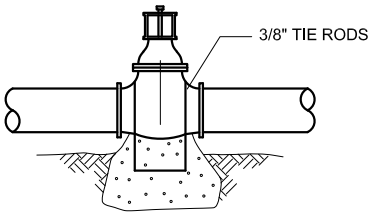
BURNET COUNTY TEXAS

KETTLES 7A & 7B

DETAILS - DRAIN, BASE, PIPE TRENCH

DESIGN: AYENI/CONWAY	DRAWN: AYENI	CHECK: CONWAY/AHN
DRAWING FILENAME AND NUMBER INKSKETTLE NO 7B - FINAL 3132026 2F-TX-252-65.0		DATE: 2/24/2024 SHT. NO. 7 SEQ. NO. 7 OF 12

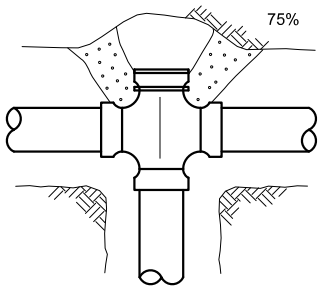


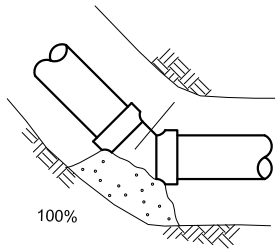


100% OF TEE

VALVE

75% OF TEE (TYP)



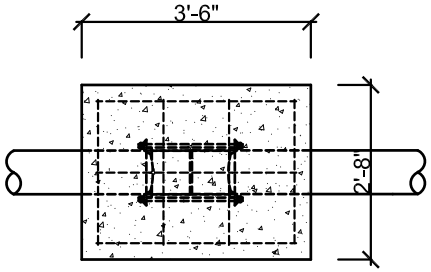


ELBOW

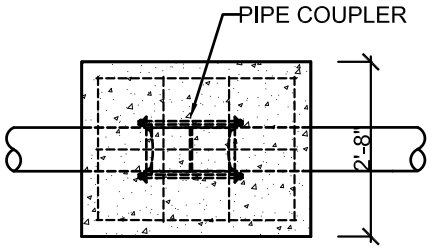
CONCRETE THRUST BLOCK DETAILS N.T.S.

MINIMUM BEARING AREA OF THRUST BLOCKS
IN SQUARE FEET AT VARIOUS FITTINGS

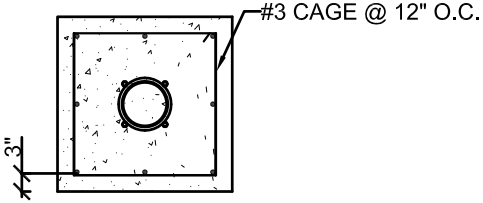
PIPE SIZE	DEAD END OR TEE	90° ELBOW	45° ELBOW	22 1/2° ELBOW
8"	5.2	7.3	4.0	2.0



PLAN



ELEVATION



SECTION

CONCRETE DEAD MAN CONNECTION DETAIL, TYPICAL

COMBINE IF SUPPLY & DRAIN ARE WITHIN 2'

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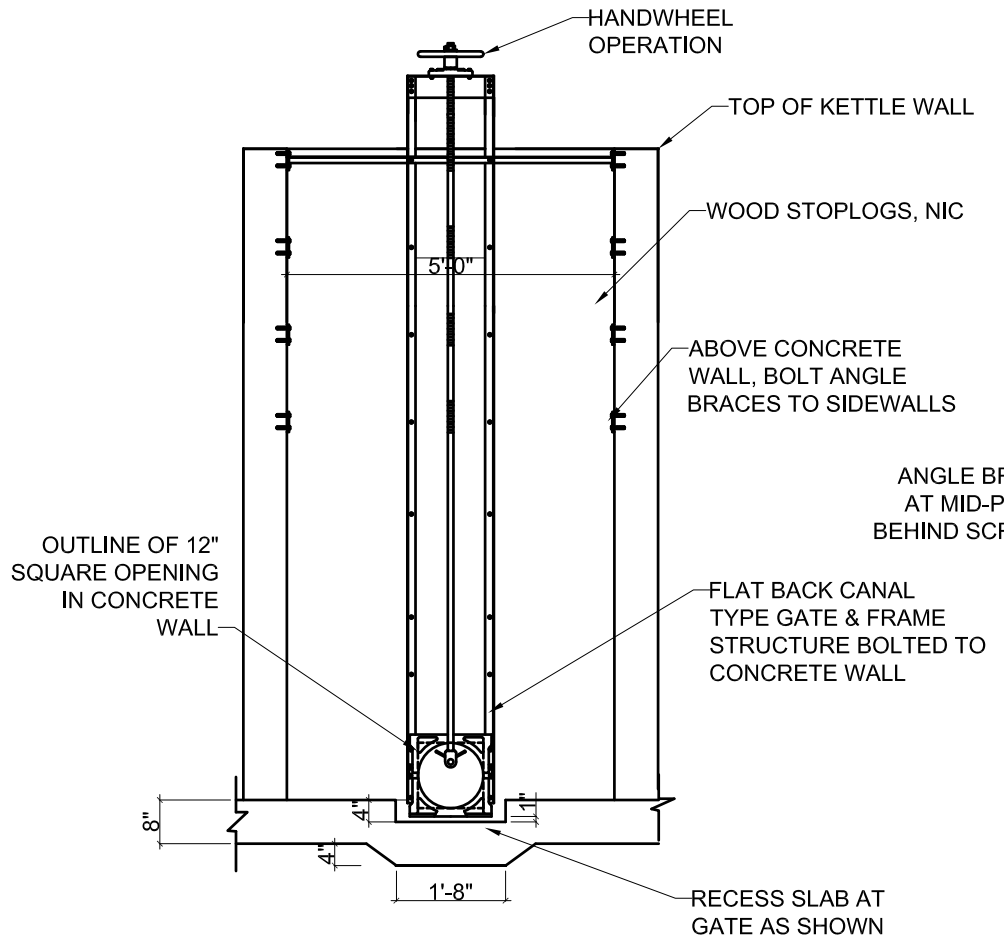
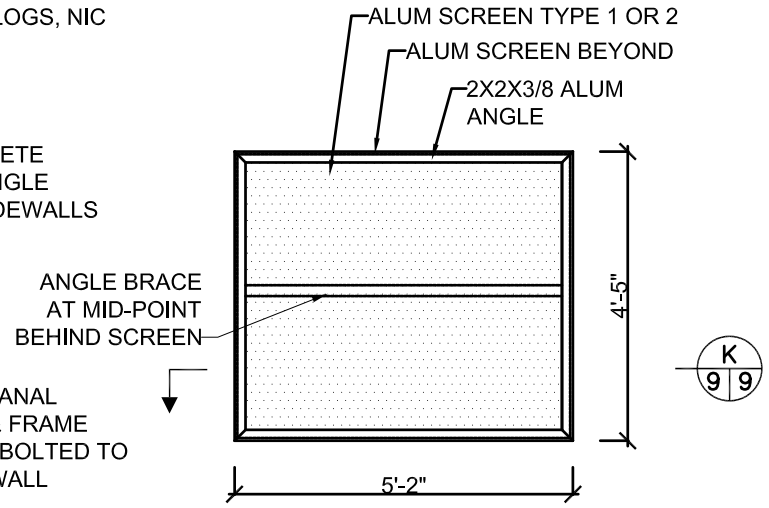
BURNET COUNTY TEXAS

KETTLES 7A & 7B
DETAILS - THRUST BLOCK, DEAD MAN

DESIGN: AYENI/CONWAY	DRAWN: AYENI	CHECK: CONWAY/AHN
DRAWING FILENAME AND NUMBER		DATE: 2/4/2026
INKSKETTLE NO 7B - FINAL 3132026	SHT. NO.	SEQ. NO.
2F-TX-252-	8	8 OF 12

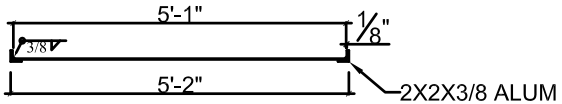


CANAL GATE ELEVATION G/4 9



SCREEN ELEVATION K/9 9

2 SCREENS PER SLOT



SCREEN SECTION K/9 9

UNITED STATES DEPARTMENT OF THE INTERIOR
U.S. FISH AND WILDLIFE SERVICE
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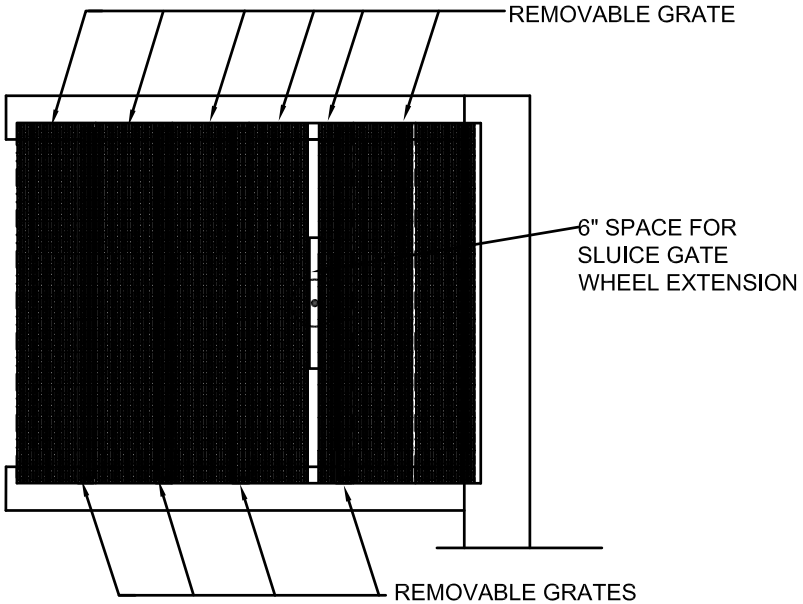
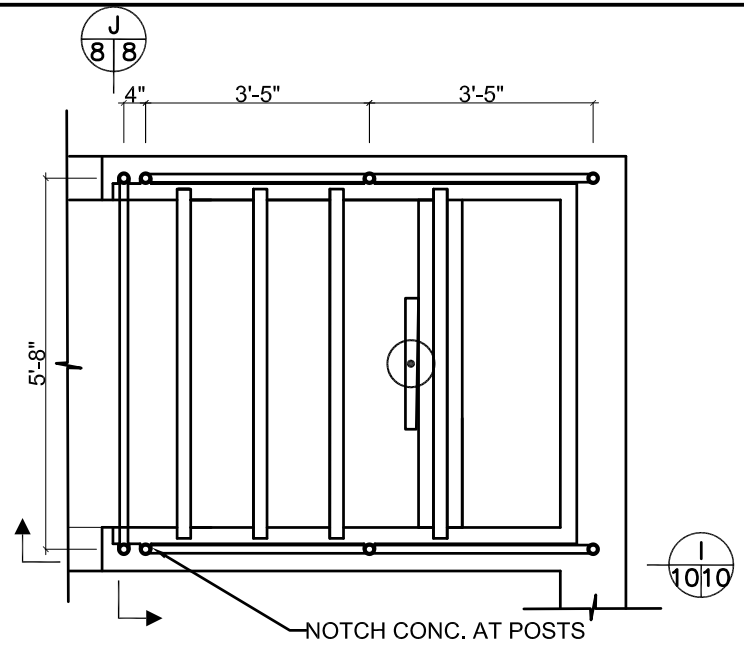
INKS DAM NATIONAL FISH HATCHERY
BURNET COUNTY TEXAS

KETTLES 7A & 7B
DETAILS - CANAL GATE & SCREEN

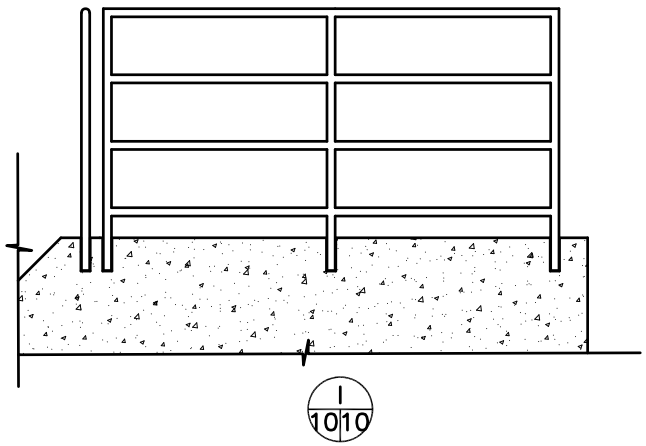
DESIGN: AYENI/CONWAY	DRAWN: AYENI	CHECK: CONWAY/AHN
DRAWING FILENAME AND NUMBER		DATE: 2/4/2026
INKSKETTLE NO 7B - FINAL 3132026	SHT. NO. 9	SEQ. NO. 9 OF 12
2F-TX-252-65.0		

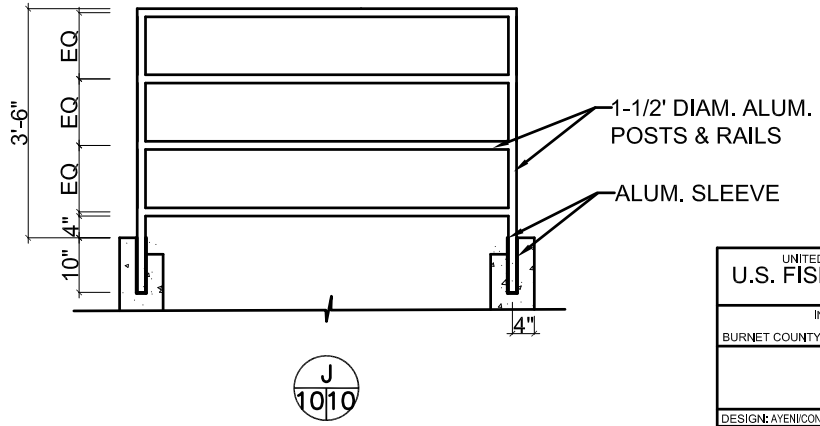


ALUMINUM GRATE PLAN



REMOVABLE GUARDRAIL DETAILS





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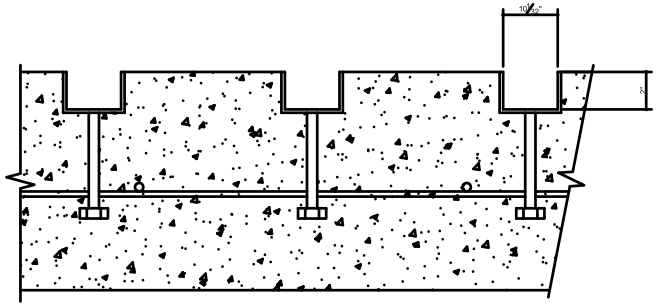
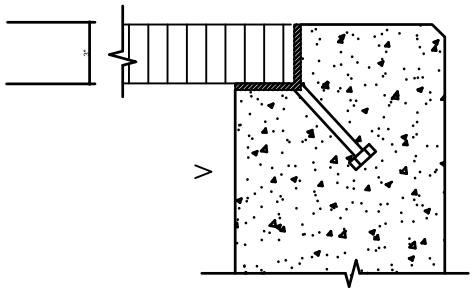
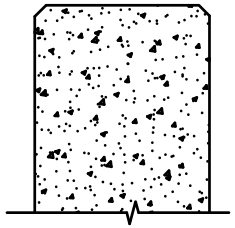
INKS DAM NATIONAL FISH HATCHERY
BURNET COUNTY TEXAS

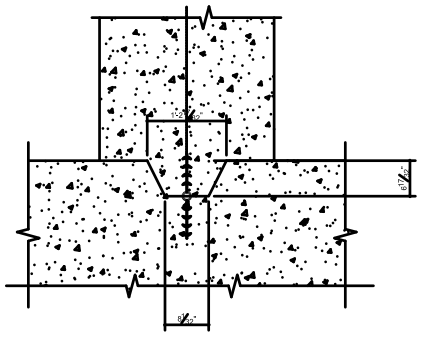
KETTLES 7A & 7B
DETAILS - GRATE, GUARDRAIL

DESIGN: AYENI/CONWAY	DRAWN: AYENI	CHECK: CONWAY/AHN
DRAWING FILENAME AND NUMBER INKSKETTLE NO 7B - FINAL 3132026 2F-TX-252-65.0		DATE: 2/4/2026 SHT. NO. 10 SEQ. NO. 10 OF 12









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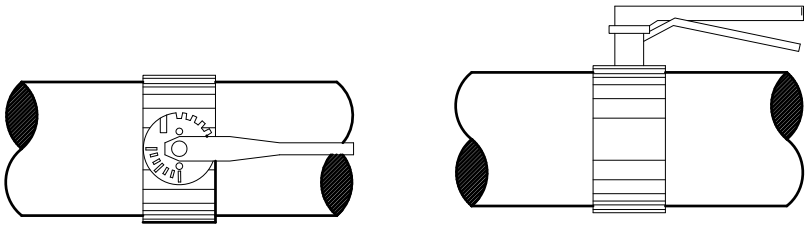
INKS DAM NATIONAL FISH HATCHERY

BURNET COUNTY TEXAS

KETTLES 7A & 7B

DETAILS - CONCRETE

DESIGN: AYENI/CONWAY	DRAWN: AYENI	CHECK: CONWAY/AHN
DRAWING FILENAME AND NUMBER		DATE: 2/4/2026
INKSKETTLE NO 7B - FINAL 3132026	SHT. NO. 11	SEQ. NO. 11 OF 12
2F-TX-252-65.0		



SMITH-BLAIR TYPE 462 (OR APPROVED EQUAL) FLEXIBLE WATERPROOF CONNECTOR WITH 5/8" NUT. TORQUE BOLTS TO 70 FT. LBS MIN.

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BURNET COUNTY TEXAS

KETTLES 7A & 7B

DETAILS - COUPLER & VALVE

DESIGN: AYENI/CONWAY	DRAWN: AYENI	CHECK: CONWAY/AHN
DRAWING FILENAME AND NUMBER		DATE: 2/4/2026
INKSKETTLE NO 7B - FINAL 3132026	SHT. NO. 12	SEQ. NO. 12 OF 12
2F-TX-252-65.0		