



ADDENDUM NO. 03

To: Prospective Bidders & Plan Holders

From: Craig A. Johnson, P.E.
Crist Engineers, Inc.

Date: May 24, 2021

Project: Jim Hinkle Spring River
State Fish Hatchery Renovations
Mammoth Spring, Arkansas

Original Bid Date: May 25, 2021

REVISED BID DATE: MAY 27, 2021

Bid Time: 2:00 PM

Location: Crist Engineers, Inc.
205 Executive Court
Little Rock, Arkansas 72205

The BIDDER shall properly acknowledge Addendum No. 03 as required on the Proposal Form as confirmation that the BIDDER has examined the following Addenda and the related changes to the Contract Documents. Lack of proper acknowledgement on the Proposal Form may deem a bid non-responsive.

The Contract Documents dated April 23, 2021, are hereby amended as follows:





Prospective Bidders & Plan Holders

Addendum No. 03

Jim Hinkle Spring River State Fish Hatchery Renovations

Page 2 of 3

The bid opening for this project has changed from the Bid Set documents.

The Bid is **MAY 27, 2021** at 2:00 PM.

The proposal form in the bid documents will be revised and issued under separate Addendum on 5/25/20121

BID DOCUMENTS:

1. No change this addendum

GENERAL CONDITIONS:

1. No change this addendum

SPECIFICATIONS:

1. Section 444473 Ultraviolet Disinfection Equipment
 - a. Modify Paragraph 2.2A. as follows:
 - i. "10. UV Transmittance: 65%"
 - b. Add the following to Paragraph 1.2 Submittals:
 - i. "F. The manufacturer shall make arrangements with the Owner to obtain an untreated water sample and test for UV Transmittance and report the result to the Engineer."

DRAWINGS:

1. Sheet No. 02 – Tank Layout and Details:
 - a. Remove this sheet from the plans and replace with the following attached hereto:
 - i. Tank and Layout Details – Addendum No. 03
2. Sheet No. 03 – Fish Silo Plan and Piping Detail 1:
 - a. Modify the Plan as shown on Plan Tank Drain (Typ. of 24) – Addendum No. 03 attached hereto.
 - b. Modify the Plan as shown on Telescoping Valve and Piping – Addendum No. 03 attached hereto.
3. Sheet No. 04 – Fish Silo Plan and Piping Detail 2:
 - a. Modify the Tank Section with North Tank Section – Addendum No. 03 attached hereto.



Prospective Bidders & Plan Holders

Addendum No. 03

Jim Hinkle Spring River State Fish Hatchery Renovations

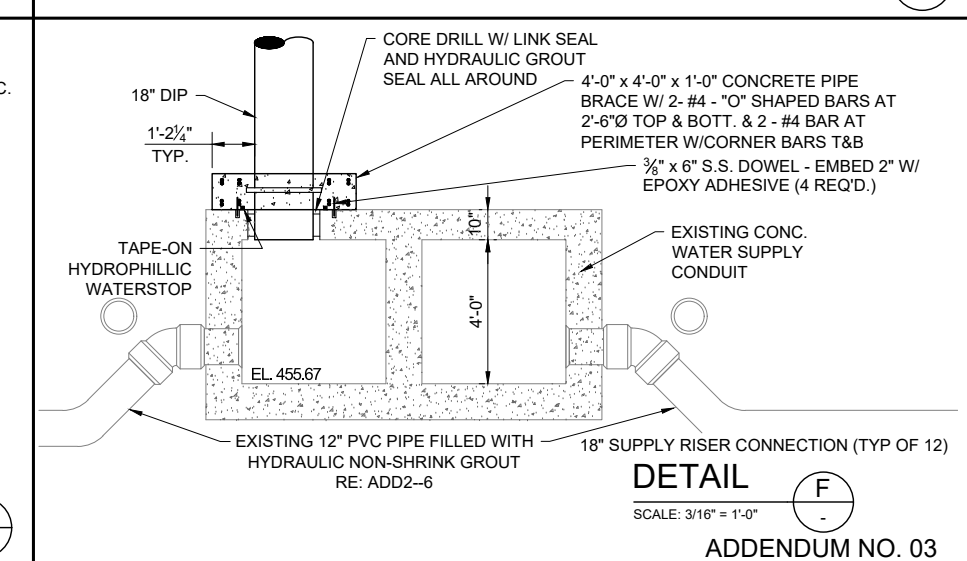
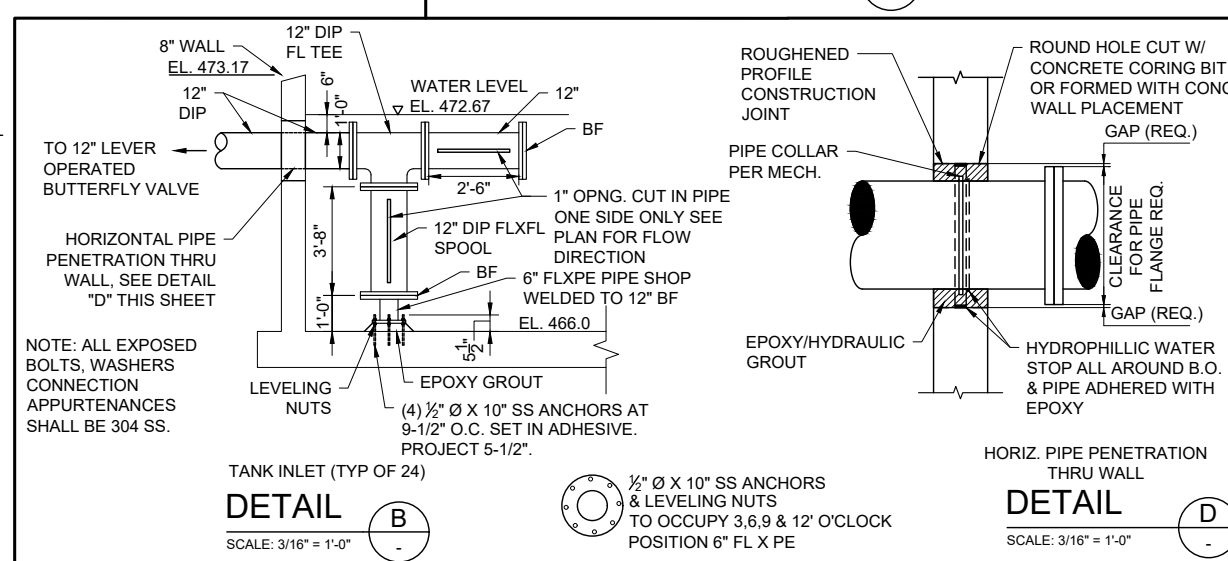
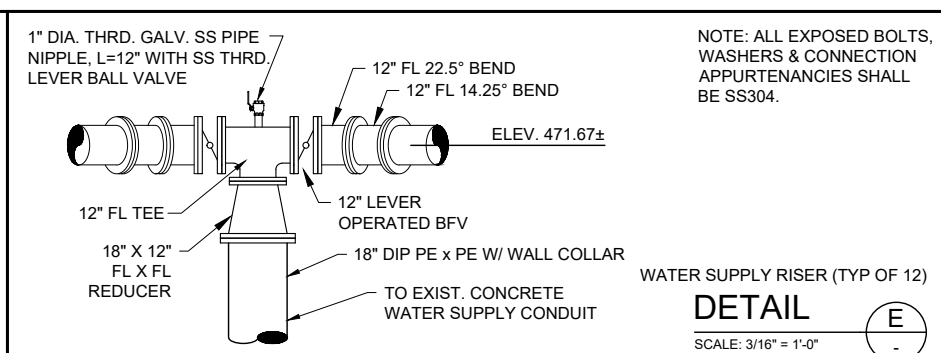
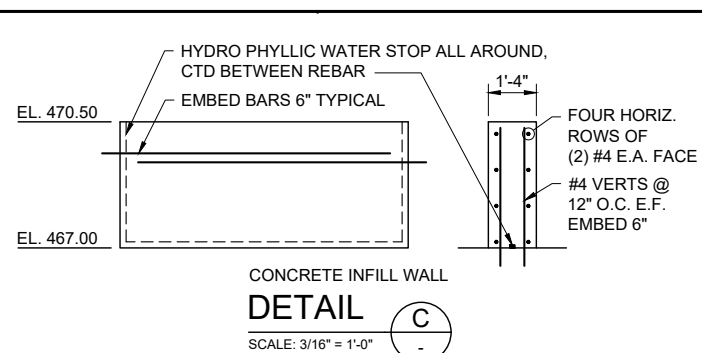
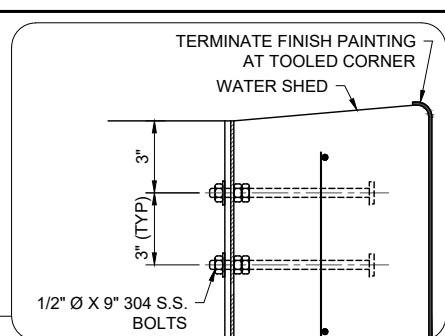
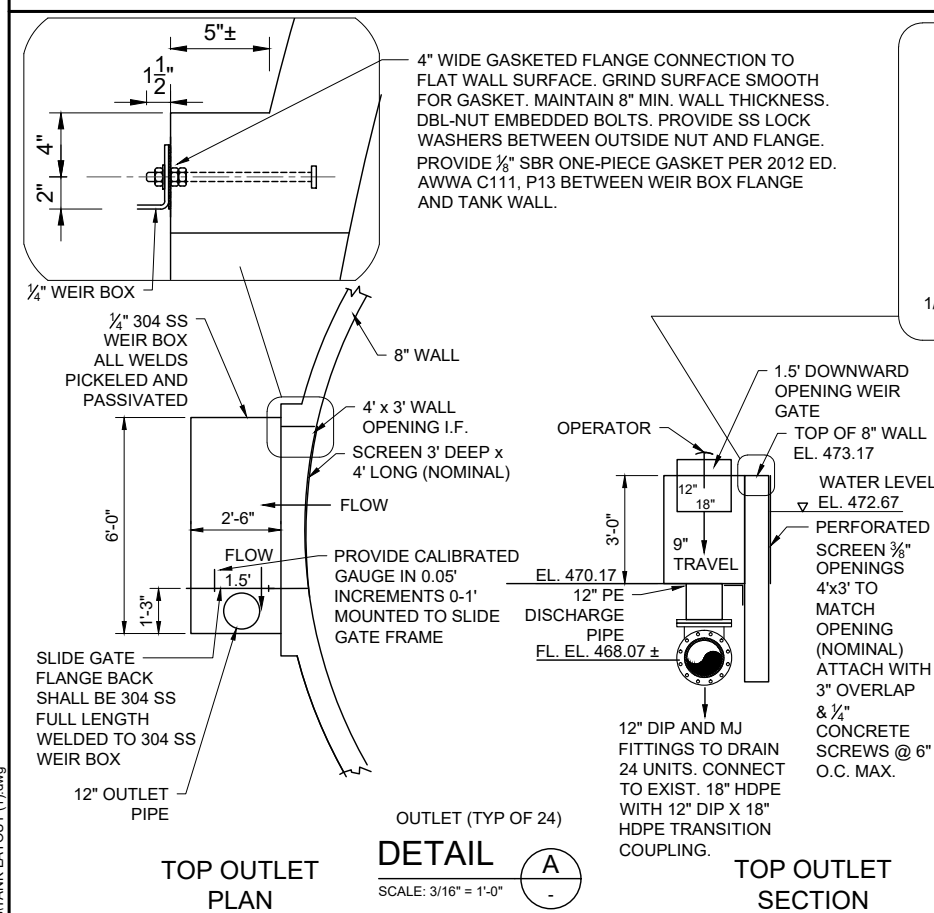
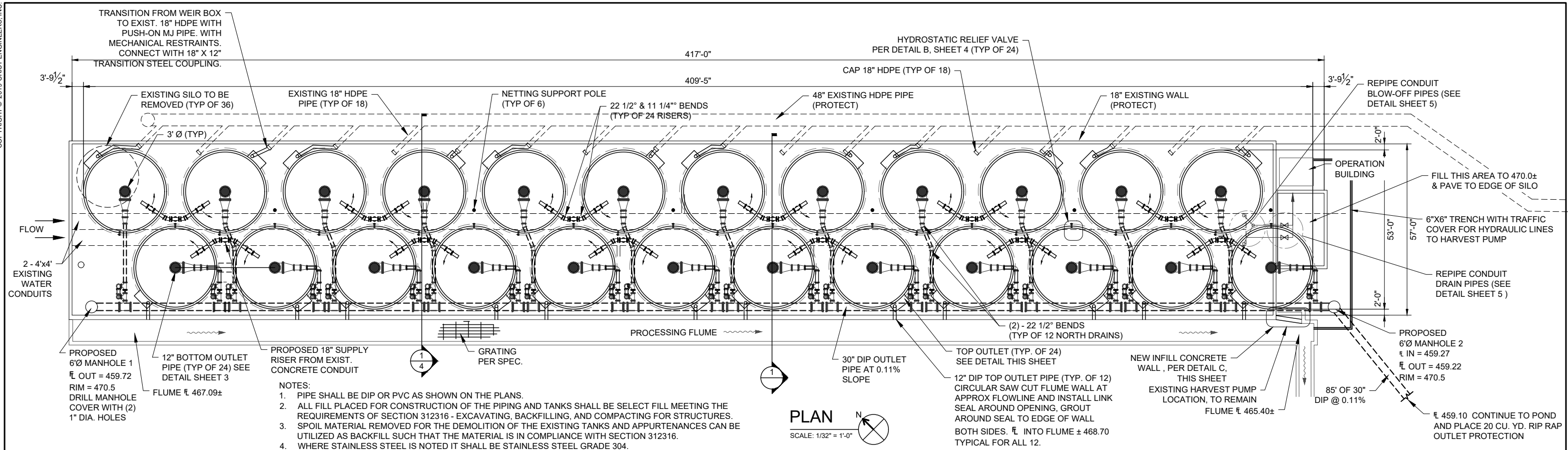
Page 3 of 3

- b. Add the following detail to the Sheet
 - i. "Plugging Exist. 12" PVC (Typ of 36) – Addendum No. 03"
 - ii. "Link Seal – Addendum No. 03"
 - iii. "Drain Encasement (North Tanks) – Addendum No. 03"
 - iv. "Drain Encasement (South Tanks) – Addendum No. 03"
 - v. "Drains at Existing Tanks (36 REQ'D) – Addendum No. 03"
 - vi. "South Tanks – Section 1 – Addendum No. 03"

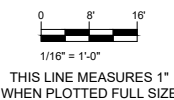
ADDENDUM NO. 02

- 1. Specification 221100 – Pipe and Fitting Addendum No. 02:
 - a. Modify Paragraph 2.3.D. as follows:
 - i. "Cement Lining: ~~(Potable Water Service)~~ (All DIP)"
 - b. Delete Paragraph 2.3.E. in its entirety.

END ADDENDUM NO. 03



REV. NO.	DATE	DRWN	CHKD	REMARKS



DESIGNED:	SWN
DRAFTED:	RDW
CHECKED:	SWN
DATE:	MAY. 2019



CRIST ENGINEERS, INC.
CONSULTING ENGINEERS

205 EXECUTIVE COURT
LITTLE ROCK, ARKANSAS 72205
TELEPHONE: (501) 664-1552
FAX: (501) 664-8579
WWW.CRISTENGINEERS.COM

FULTON COUNTY, ARKANSAS

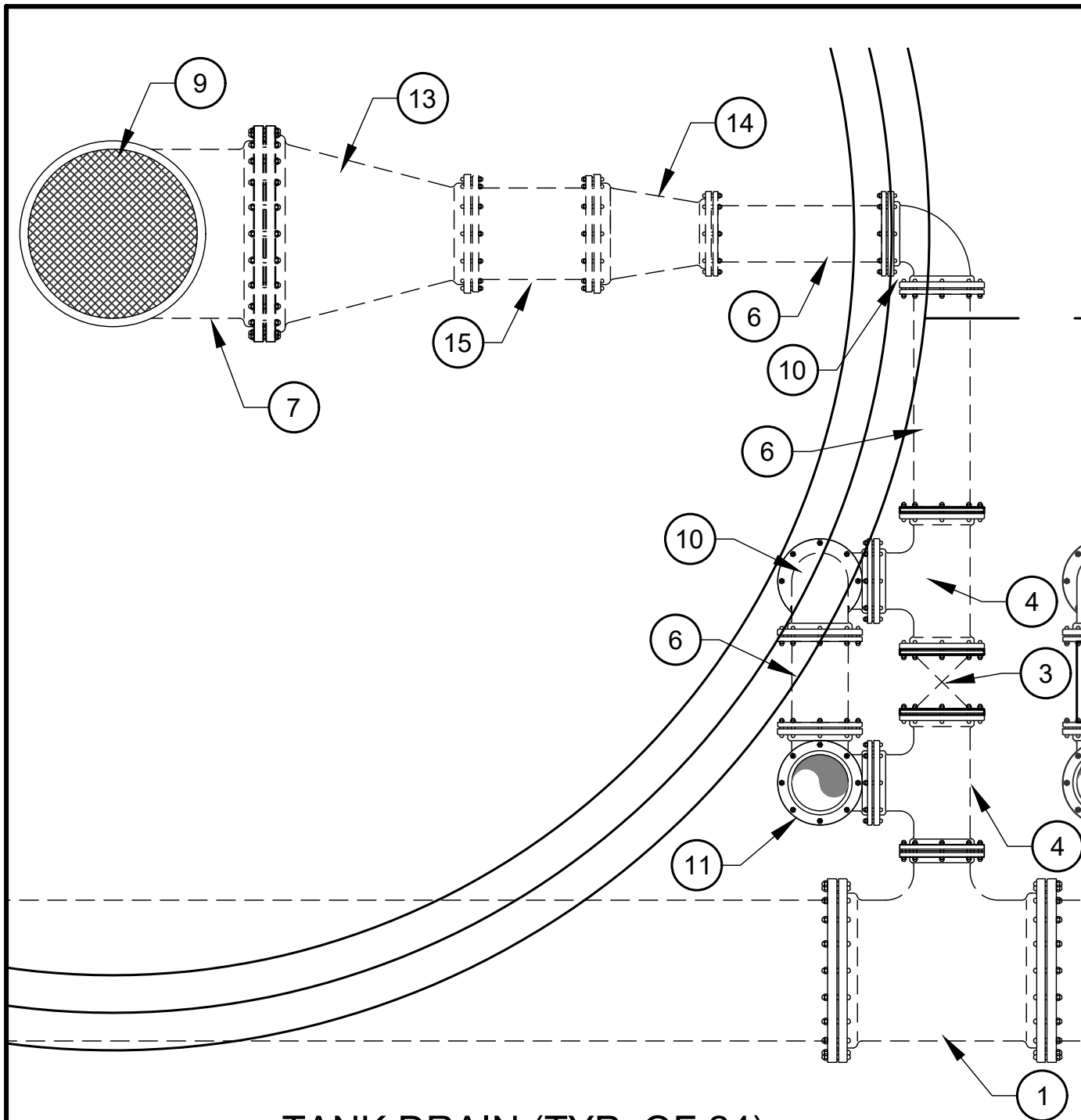
**JIM HINKLE SPRING RIVER STATE FISH
HATCHERY RENOVATIONS**

ADDENDUM NO. 03

TANK LAYOUT & DETAILS

JOB NO.
1814

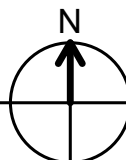
SHEET NO.
ADD 03
2



TANK DRAIN (TYP. OF 24)

PLAN

SCALE: N.T.S.



NOTE:
THIS IS A GENERAL
ORIENTATION, REF. PLAN
VIEW ON DRAWING ADD02-02
FOR DRAIN ARRANGEMENT.



CRIST ENGINEERS, INC.
CONSULTING ENGINEERS LITTLE ROCK, ARKANSAS

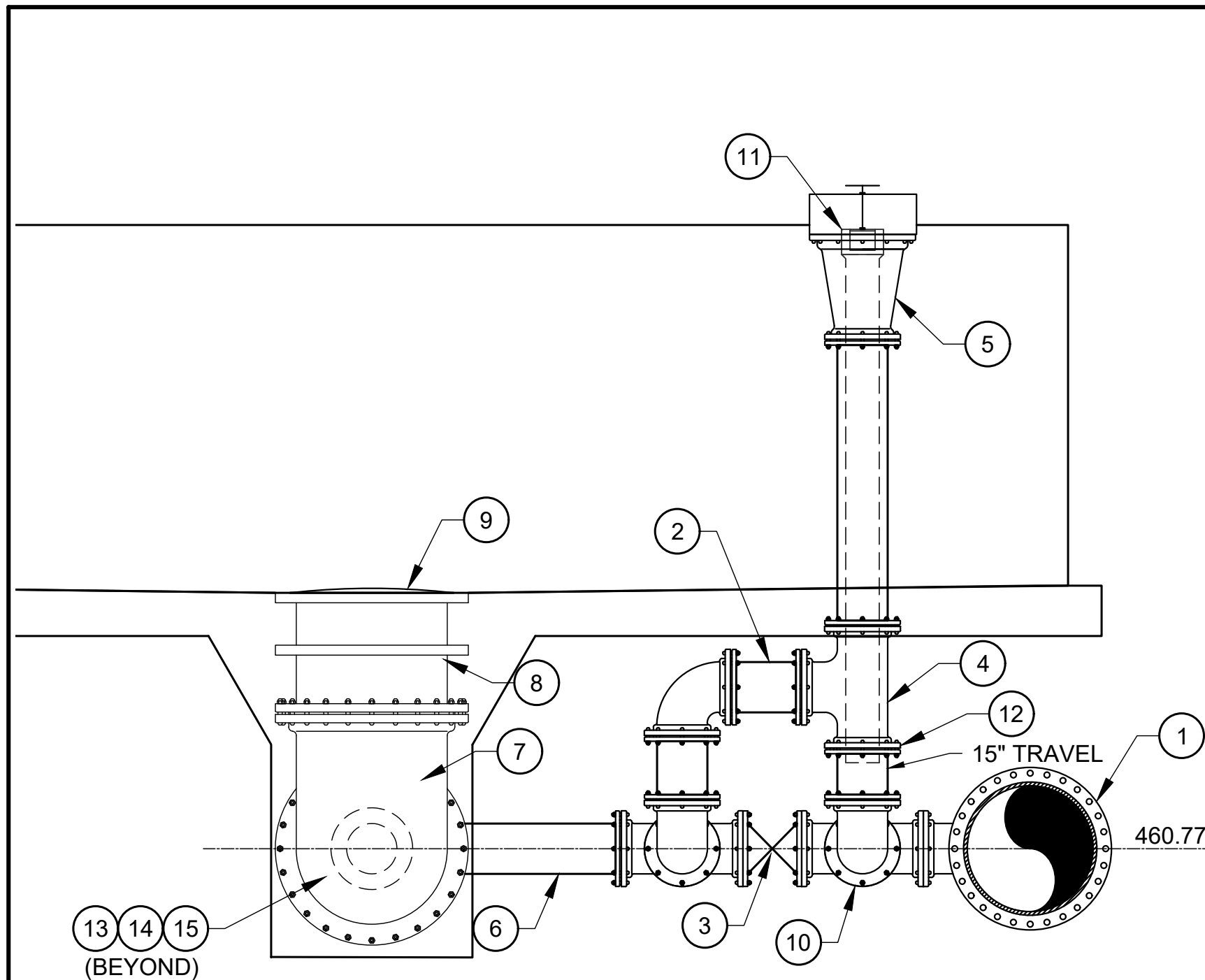
FULTON COUNTY, ARKANSAS

**JIM HINKLE SPRING RIVER STATE
FISH HATCHERY RENOVATIONS**

ADDENDUM NO. 03

PLAN

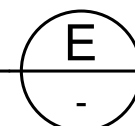
DESIGNED: CAJ	JOB NO: 1814	DATE: MAY 2021	ADD NO. 3
DRAFTED: GAC	SCALE: NOT TO SCALE	REF. SHEET 3	
CHECKED: CAJ			



TELESCOPING VALVE AND PIPING

DETAIL

SCALE: 3/8" = 1'-0"



LEGEND (ALL FITTINGS DIP MJ, USE MEGALUGS ON ALL FITTINGS)

- 1 30" x 12" DIP MJ TEE ON WASTEWATER LINE
- 2 MJ SPOOL
- 3 12" MJ GATE VALVE AND BOX WITH STEM EXTENSION WITH FOSTER ADAPTERS
- 4 12" MJ TEE
- 5 12" x 18" REDUCER
- 6 12" DIP SPOOL
- 7 36" 90° MJ BEND
- 8 36" FL x PLAIN END WITH WALL COLLAR (TAP FLANGE FOR ATTACHMENT OF SCREEN)
- 9 STAINLESS STEEL SCREEN w/ $\frac{3}{8}$ " OPENINGS
- 10 12" COMPACT 90° MJ BEND
- 11 8" TELESCOPING VALVE VALVE (SEE DETAIL THIS SHEET)
- 12 FLANGE OR BUSHING FOR TELESCOPING VALVE
- 13 36" x 18" REDUCER
- 14 18" x 12" REDUCER
- 15 18" DIP SPOOL

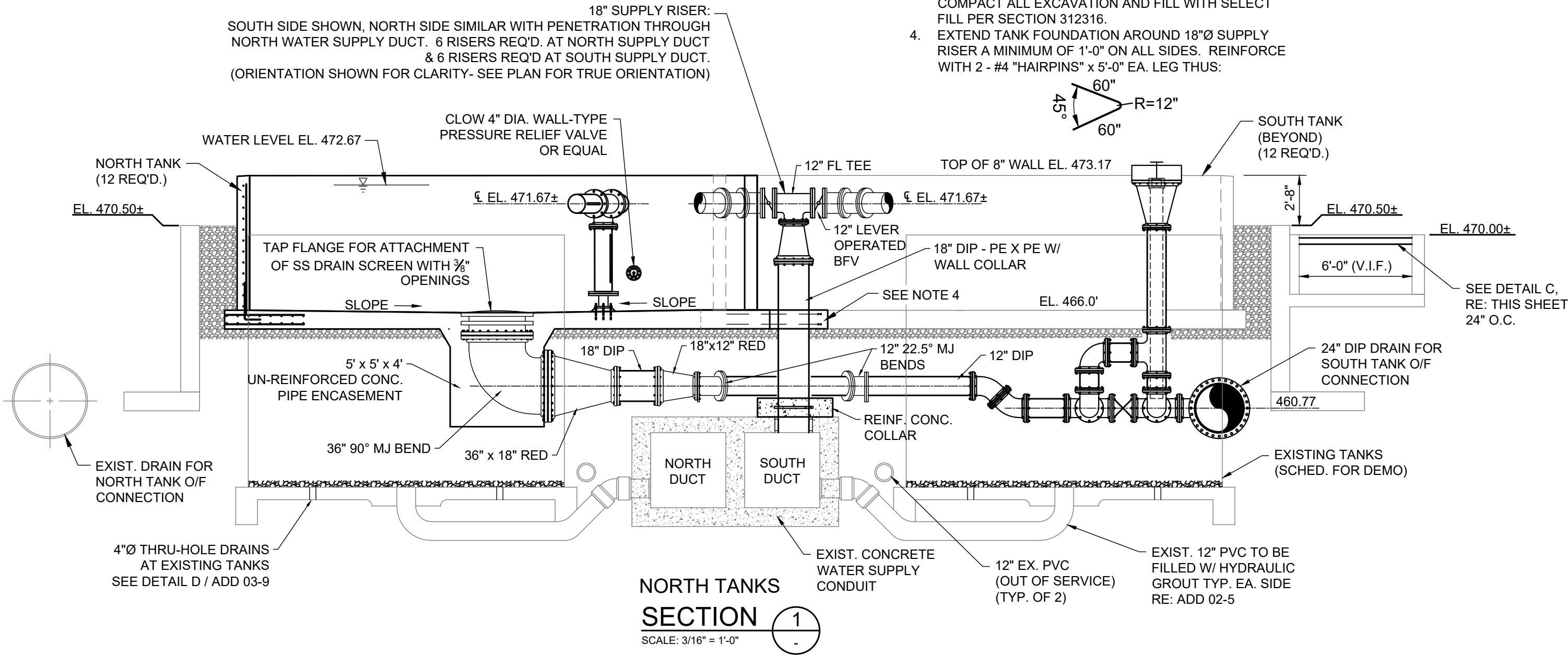
NOTES:

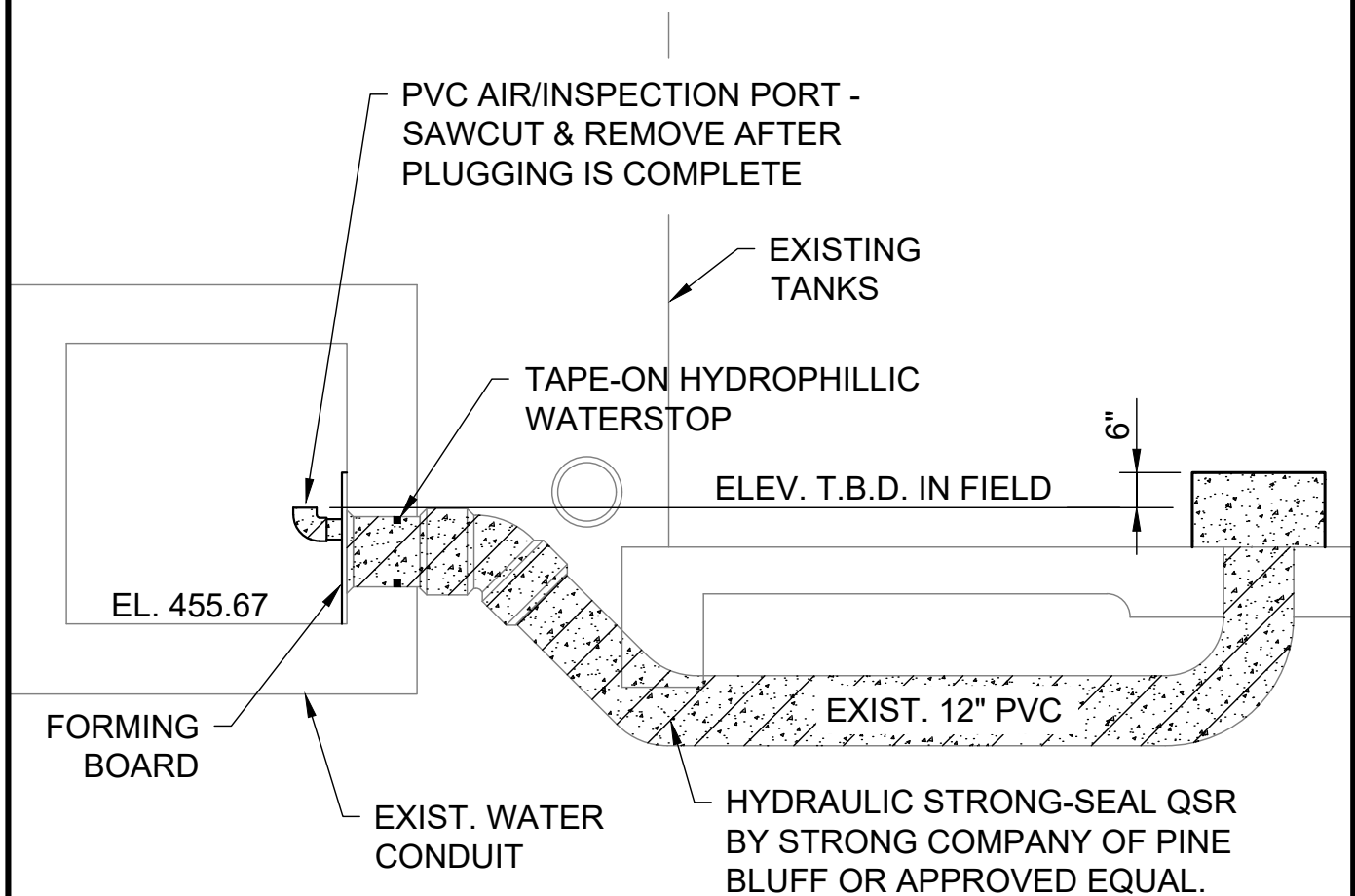
1. ALL BURIED PIPING SHALL BE MJ WITH RESTRAINED JOINT GLANDS WITH POLYTHYLENE ENCASEMENT.
2. FOSTER ADAPTERS BETWEEN MJ-MJ JOINTS WILL BE PERMITTED.

		CRIST ENGINEERS, INC.	
CONSULTING ENGINEERS		LITTLE ROCK, ARKANSAS	
FULTON COUNTY, ARKANSAS			
JIM HINKLE SPRING RIVER STATE FISH HATCHERY RENOVATIONS			
ADDENDUM NO. 03			
DETAIL E			
DESIGNED: CAJ	JOB NO: 1814	DATE: MAY 2021	ADD NO. 3
DRAFTED: GAC	SCALE: NOT TO SCALE	REF. SHEET 3	
CHECKED: CAJ			

NOTES:

1. DEMOLISH EXISTING SILOS ONLY TO THE EXTENT NECESSARY TO CONSTRUCT NEW SILOS & PIPING.
2. SEE SHEET 15 FOR EARTH WORK NOTES.
3. CONCLUDING 12" PVC GROUT FILL, PLACE AND COMPACT ALL EXCAVATION AND FILL WITH SELECT FILL PER SECTION 312316.
4. EXTEND TANK FOUNDATION AROUND 18"Ø SUPPLY RISER A MINIMUM OF 1'-0" ON ALL SIDES. REINFORCE WITH 2 - #4 "HAIRPINS" x 5'-0" EA. LEG THUS:

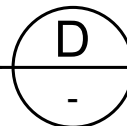




PLUGGING EXIST. 12" PVC (TYP OF 36)

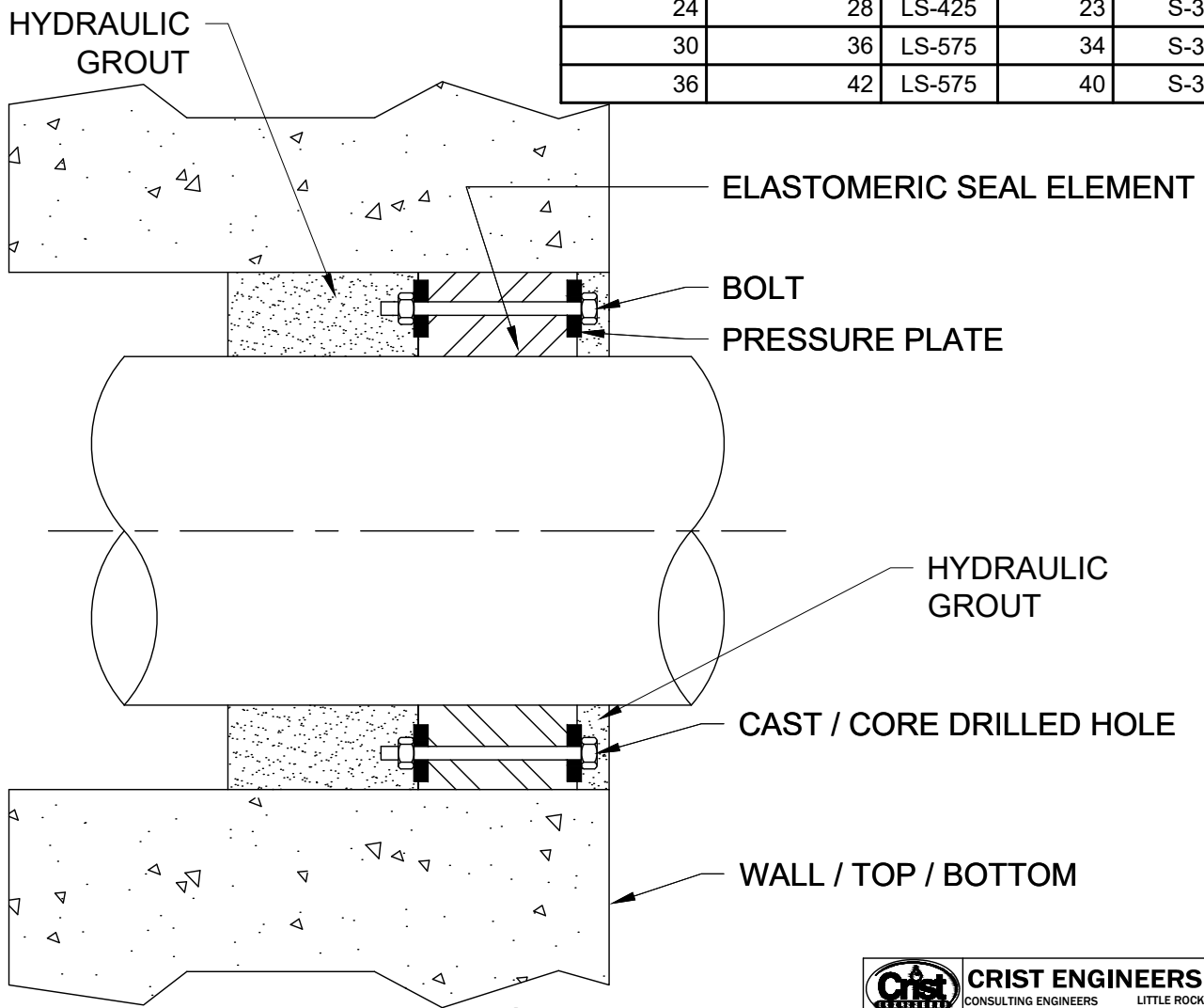
DETAIL

SCALE: 3/8" = 1'-0"



 CRIST ENGINEERS, INC. CONSULTING ENGINEERS LITTLE ROCK, ARKANSAS		FULTON COUNTY, ARKANSAS	
		JIM HINKLE SPRING RIVER STATE FISH HATCHERY RENOVATIONS ADDENDUM NO. 03 DETAIL D	
DESIGNED: CAJ	JOB NO: 1814	DATE: MAY 2021	ADD NO. 3
DRAFTED: GAC	SCALE: NOT TO SCALE	REF. SHEET 4	
CHECKED: CAJ			

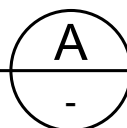
DIP PIPE SIZE (INCHES)	CAST OR CORE BIT DRILLED HOLE ID (INCHES)	LINK SEAL SIZE	LINKS PER SEAL	MODEL
2	4	LS-300	6	S-316
2.25	4	LS-200	9	S-316
3	6	LS-315	10	S-316
4	8	LS-410	7	S-316
6	10	LS-410	10	S-316
8	12	LS-400	9	S-316
10	14	LS-400	10	S-316
12	16	LS-360	21	S-316
14	18	LS-360	24	S-316
16	20	LS-360	27	S-316
18	24	LS-525	17	S-316
20	26	LS-525	19	S-316
24	28	LS-425	23	S-316
30	36	LS-575	34	S-316
36	42	LS-575	40	S-316



LINK-SEAL

DETAIL

N.T.S.



 CRIST ENGINEERS, INC. CONSULTING ENGINEERS LITTLE ROCK, ARKANSAS			
FULTON COUNTY, ARKANSAS			
JIM HINKLE SPRING RIVER STATE FISH HATCHERY RENOVATIONS ADDENDUM NO. 03 DETAIL A			
DESIGNED: CAJ	JOB NO: 1814	DATE: MAY 2021	ADD NO. 3
DRAFTED: GAC	SCALE: NOT TO SCALE		REF. SHEET 4
CHECKED: CAJ			

36" DIP PE x FL WITH
WALL COLLAR L = 1'-2"

SLOPE 2°

SLOPE 2°

1'-10"

ENCASE JOINTS
WITH PLASTIC
SHEATHING

℄ EL. 459.59±

36" 90° MJ BEND

8"

5'x5'x4' UN-REINFORCED
CONC. PIPE ENCASEMENT

5'-0"

(x 5'-0")

36" x 18 RED

ENCASE JOINTS
WITH PLASTIC
SHEATHING

DRAIN ENCASEMENT (NORTH TANKS)

DETAIL

B

N.T.S.

NOTE: HORIZONTAL JOINT LOCATION
BY CONTRACTORS OPTION.



CRIST ENGINEERS, INC.
CONSULTING ENGINEERS LITTLE ROCK, ARKANSAS

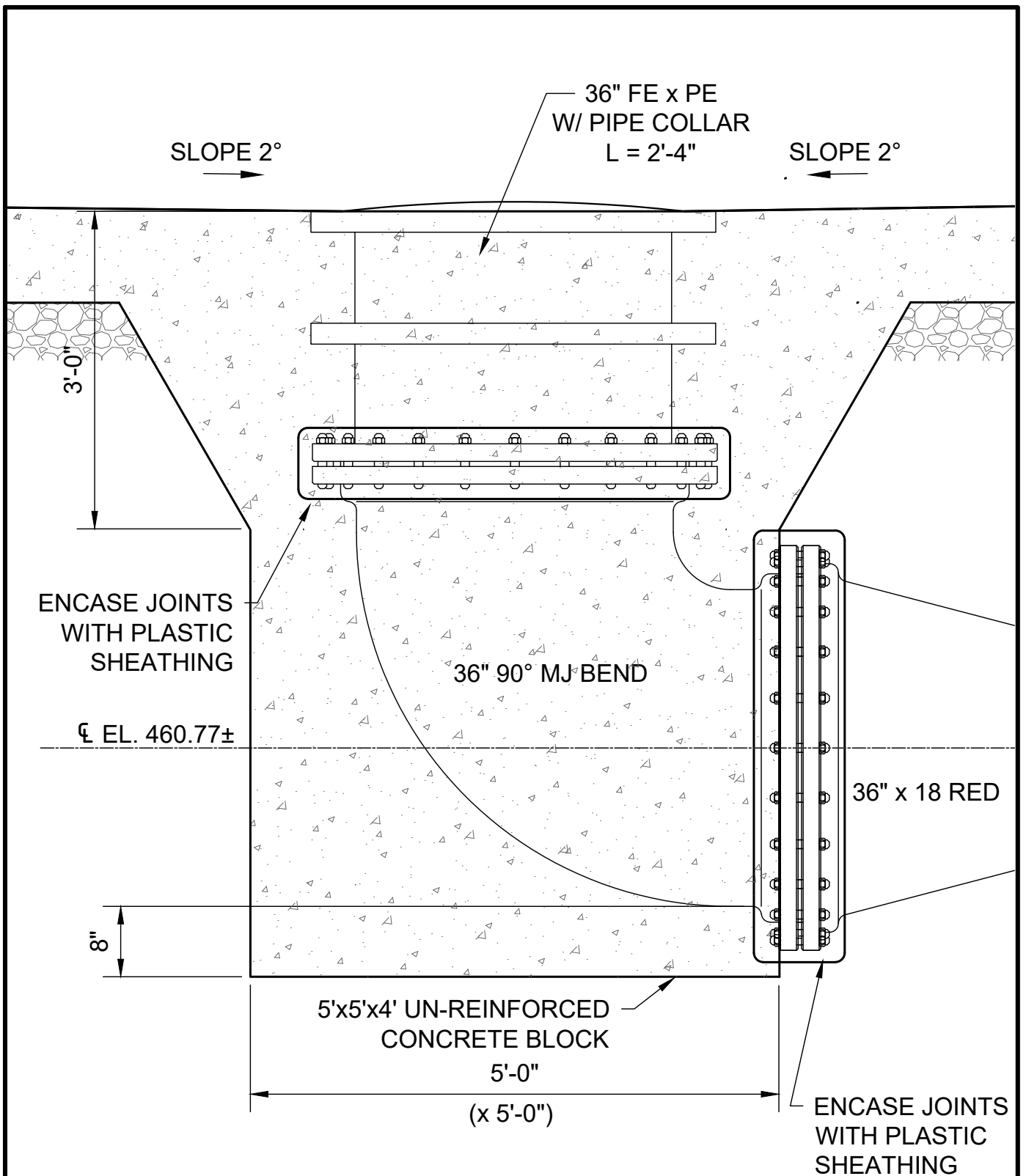
FULTON COUNTY, ARKANSAS

**JIM HINKLE SPRING RIVER STATE
FISH HATCHERY RENOVATIONS**

ADDENDUM NO. 03

DETAIL B

DESIGNED: CAJ	JOB NO: 1814	DATE: MAY 2021	ADD NO. 3
DRAFTED: GAC	SCALE: NOT TO SCALE	REF. SHEET 4	
CHECKED: CAJ			



DRAIN ENCASEMENT (SOUTH TANKS)

DETAIL

C

N.T.S.

NOTE: HORIZONTAL JOINT LOCATION
BY CONTRACTORS OPTION.



CRIST ENGINEERS, INC.
CONSULTING ENGINEERS LITTLE ROCK, ARKANSAS

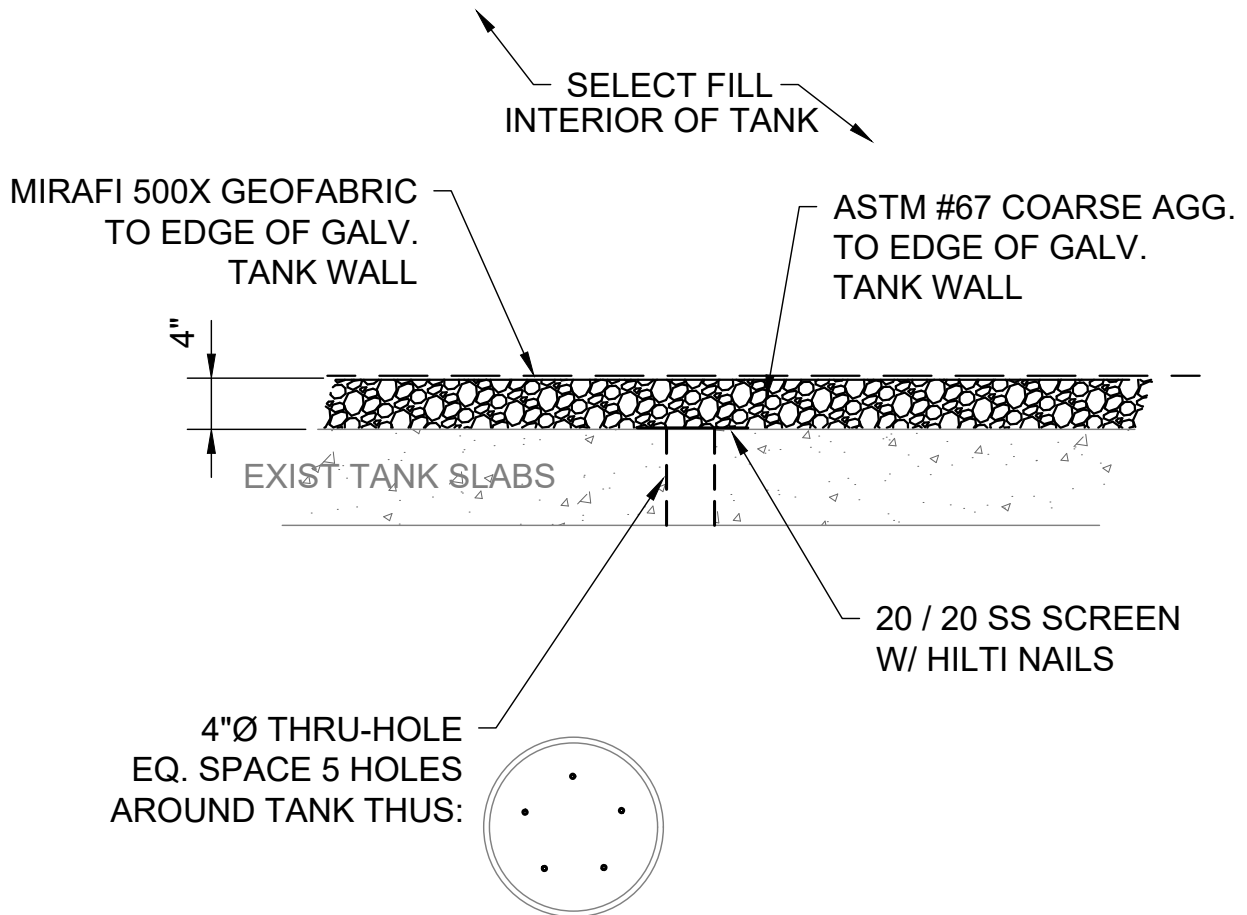
FULTON COUNTY, ARKANSAS

**JIM HINKLE SPRING RIVER STATE
FISH HATCHERY RENOVATIONS**

ADDENDUM NO. 03

DETAIL C

DESIGNED: CAJ	JOB NO: 1814	DATE: MAY 2021	ADD NO. 3
DRAFTED: GAC	SCALE: NOT TO SCALE	REF. SHEET 4	
CHECKED: CAJ			



DRAINS AT EXISTING TANKS (36 REQ'D.)

DETAIL **D**
N.T.S.

		CRIST ENGINEERS, INC.	
CONSULTING ENGINEERS		LITTLE ROCK, ARKANSAS	
FULTON COUNTY, ARKANSAS			
JIM HINKLE SPRING RIVER STATE FISH HATCHERY RENOVATIONS			
ADDENDUM NO. 03			
DETAIL D			
DESIGNED: CAJ	JOB NO: 1814	DATE: MAY 2021	ADD NO. 3
DRAFTED: GAC	SCALE: NOT TO SCALE		REF. SHEET 4
CHECKED: CAJ			

- NOTES:
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