

## RECOMMENDATION 7-2022

To: Kankakee River Basin and Yellow River Basin Development Commission  
From: Technical Advisory Committee  
Subject: Jasper County FEMA Project augmentation  
Date: September 23, 2022

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**DESCRIPTION:** Jasper County, in partnership with the Commission, recently completed a \$3.8 million bank repair project with Federal Emergency Management Agency (FEMA) funding. The initiative regraded and armored several miles of bank in Jasper County following severe 2018 flood damage.

**LOCATION:** Kankakee River in Jasper County

**ISSUE:** While the repair work constituted the largest Kankakee River projects in recent decades, some flood-damaged sections – particularly one immediately downstream of US 231 -- were ineligible for FEMA assistance. The Jasper County Surveyor has requested that the Commission augment the FEMA project by funding and overseeing repairs to this section of bank.

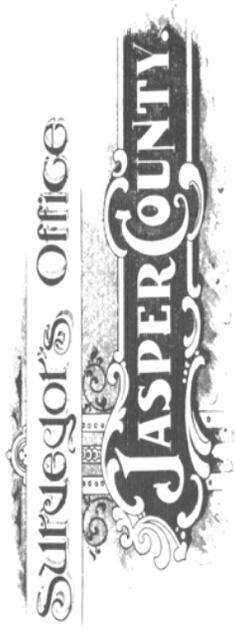
The Jasper County Surveyor's office has prepared a tentative project area, preliminary designs, and a scope of work for consideration [ATTACHMENT].

While the FEMA project has been valuable both as a flood protection project and a sediment reduction tool, augmenting it could be fiscally challenging if the suggested project area remains undivided into smaller sections.

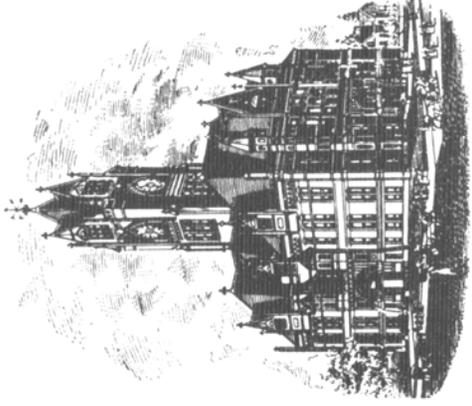
**RECOMMENDATION:** The Committee recommends that the Commission approve the project provided that 1) the project area be subdivided into annually affordable sections and 2) the Commission and Jasper County evaluate and consider effective design modifications that could reduce material costs.

**ADOPTED BY COMMITTEE 9/23/2022.**

**ADOPTED BY COMMISSION 10/28/2022.**



VINCE URBANO  
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2530 NORTH MCKINLEY AVE. SUITE 2,  
RENSSELAER, INDIANA 47978

# MAINTENANCE PATH RESTORATION ALONG THE KANKAKEE RIVER

## PROJECT LOCATION

Beginning approximately 1,850 feet north and 1,511 feet west of the northwest corner of Section 15 Township 32 Range 7 of Jasper County repair the Jasper County Maintenance Path along the Kankakee River for a distance of 10,573 feet. (See attached maps and drawings for details)

## RIGHT-OF-WAY

All landowners along said **Kankakee River** shall provide the Contractor with the right-of-way as established by law I.C. 36-9-27-33; the County Surveyor, the Board or an authorized representative of the Surveyor or the Board acting under this chapter has the right of entry over and upon land lying within seventy-five feet ( 75') of any regulated drain. The seventy-five foot (75') limit is measured at right angles to the top edge of each bank of an open drain, and seventy-five feet (75') from the centerline of the tile, as determined by the Surveyor.

## FENCING AND FENCING MATERIALS

All landowners having fences which are in the line of reconstruction and which may be in danger of being damaged by said work, are charged with protecting the same or removing and replacing the same, so as to avoid damage thereto. The Contractor shall notify each and all such landowners who have not removed sufficient fencing to enable this work to be done properly. Such notice shall provide adequate time for each such landowner. The Contractor shall use extreme care and shall plan work diligently as to avoid any damage to or unnecessary removal of nearby fencing materials.

## **PUBLIC UTILITIES**

The Contractor shall give notice to the owners of the Public Utilities or their proper agents, of any electric power lines, telephone and telegraph line, or any other utility easements, no less than fifteen (15) days prior to the expected time this construction work will be entering upon or crossing any such easement or line.

The Contractor shall cooperate with all such owners and/or agents, and he shall use good judgment and extreme care in his work to avoid damage to any such property.

## **EROSION CONTROL**

A representative of the Surveyor's Office, Deputy, or Contractor shall inspect erosion and sediment control practices daily and repair as necessary until all construction is complete and disturbed areas are permanently stabilized. Disturbed banks shall be stabilized as work progresses so that no more than 200 lineal feet are left disturbed at the completion of the workday. Except for material used as backfill as shown in plans, any excavated material shall be placed landward of the floodway.

The contractor shall stabilize and revegetate disturbed soils as final grades are achieved. Initiation of stabilization must occur immediately or at a minimum within the requirements of a construction site run-off permit or any other conditions required by environmental permitting after work is completed.

## **CLEARING, TREES, AND BRUSH**

The Contractor shall clear **ONLY TREES NECESSARY** to achieve the proposed PATH restoration along the South bank within the right-of-way of the Kankakee River. No trees, brush or underbrush suitable for Indiana bat or Northern Long-eared bat roosting shall be cut (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30. The boundaries of any clearing shall be limited to the immediate project area unless authorized in the plans on file with the Jasper County Surveyor. Any alteration of the proposed plans must first be approved by the Jasper County Surveyor or his Deputy. The immediate project area shall be defined as the proposed project area consisting of, the existing berm along the South bank of the Kankakee River, the necessary area for a twenty-five (25) foot maintenance path, and the slope of the bank from the top of the berm to the water's edge. All trees, brush, stumps and logs will be piled on land from which they are taken and all debris not claimed by landowner shall be burned as per the following standard specifications of the Indiana Department of Environmental Management.

1. Only wood products shall be burned.
2. Fires shall be attended at all times until completely extinguished.
3. If fires create a nuisance of a fire hazard, they shall be extinguished.

4. All burning shall occur during daylight hours, during which the fires may be replenished, but only in such a manner that nearly all of the burning material is consumed by sunset.
5. No burning shall be conducted during unfavorable meteorological condition such as temperature inversions, high winds, air stagnation, etc.

In addition, fires should not be ignited or fueled with tires or smoke producing petroleum products; all fires should be attended at all times while burning and until completely extinguished; fires must be conducted on property where waste is derived; all burning must comply with other state and local regulations; and the Jasper County Health Department and Sheriff's department should be notified prior to dates of burning. All debris not consumed by fire shall be buried to a depth that will allow at least two (2) feet of cover over the buried material.

**TREATING OF STUMPS**

Stumps of trees and brush or larger shall be treated with chemicals such as Tordon - RTU, or an equivalent chemical specified for cut surface treatment to prevent re-growth of vegetation.

Treating of stumps must be done in accordance with specifications on chemical manufacturers label and within twenty-four (24) hours of cut. Tordon – RTU should be applied to the outer diameter of the tree after the cut.

**MAINTENANCE PATH RESTORATION**

The contractor shall relocate all material from a pre-designated dump locations and existing stockpile locations (See attached drawings). It is recommended material be transported by way of off-road heavy haul trucks. Unless pre-approved by the Jasper County Surveyor or his deputy no over the road tri-axle or quad-axle dump truck will transport material along the berm. Unless approved by the Jasper County Surveyor or his deputy the designated dump location cannot be changed or relocated.

Beginning from the station 0+00 and working upstream to station 105+73(see attached drawing for location details) repair the maintenance path improvement with clean fill (approx. 24,559.45 cubic yards) restoring to an original 25 foot top width creating a no less than 2:1 slope. Then armor with clean limestone rip-rap (approx. 4,397.47 cubic yards) creating no less than a 2:1 slope along the riverside of the path. (See attached maps and drawings for details). The entire project length has been broken into 3 classification of existing condition, less than 15 feet considered critical, less than 20 feet considered Major, less than 25 feet considered Minor. See the following list for station reference to these conditions.

	<u>Location</u>	<u>Distance</u>	<u>Condition</u>
1.)	Station 0+00.00 to Station	0+86.52 86.52 feet	Critical
2.)	Station 0+86.52 to Station	4+46.66 360.14 feet	Major
3.)	Station 4+46.66 to Station	25+18.35 2,071.69 feet	Critical

4.)	Station	25+18.35 to Station	28+40.17	321.82 feet	Major
5.)	Station	28+40.17 to Station	33+85.27	545.10 feet	Critical
6.)	Station	33+85.27 to Station	44+01.98	1,016.71 feet	Major
7.)	Station	44+01.98 to Station	48+36.93	434.95 feet	Minor
8.)	Station	48+36.93 to Station	49+21.35	84.42 feet	Major
9.)	Station	49+21.35 to Station	50+52.39	131.04 feet	Critical
10.)	Station	50+52.39 to Station	53+06.11	253.72 feet	Major
11.)	Station	53+06.11 to Station	53+50.48	44.37 feet	Critical
12.)	Station	53+50.48 to Station	55+60.17	209.69 feet	Major
13.)	Station	55+60.17 to Station	59+42.72	382.55 feet	Critical
14.)	Station	59+42.72 to Station	60+95.80	153.08 feet	Major
15.)	Station	60+95.80 to Station	62+41.65	145.85 feet	Minor
16.)	Station	62+41.65 to Station	63+90.48	148.83 feet	Major
17.)	Station	63+90.48 to Station	65+84.32	193.84 feet	Minor
18.)	Station	65+84.32 to Station	70+29.53	445.21 feet	Major
19.)	Station	70+29.53 to Station	71+34.77	105.24 feet	Critical
20.)	Station	71+34.77 to Station	74+91.66	356.89 feet	Major
21.)	Station	74+91.66 to Station	81+23.89	632.23 feet	Minor
22.)	Station	81+23.89 to Station	82+72.90	149.01 feet	Major
23.)	Station	82+72.90 to Station	83+82.61	109.71 feet	Minor
24.)	Station	83+82.61 to Station	85+17.30	134.69 feet	Major
25.)	Station	85+17.30 to Station	90+93.75	576.45 feet	Minor
26.)	Station	90+93.75 to Station	93+54.44	260.69 feet	Major
27.)	Station	93+54.44 to Station	94+80.79	126.35 feet	Minor
28.)	Station	94+80.79 to Station	97+83.88	303.09 feet	Major
29.)	Station	97+83.88 to Station	100+49.44	265.56 feet	Critical
30.)	Station	100+49.44 to Station	103+17.03	267.59 feet	Major
31.)	Station	103+17.03 to Station	105+73.32	256.49 feet	Minor

## **SEEDING**

1. No special preparation will be required for seeding.
2. In the areas of farm field no seed will be required.
3. In the areas of filter strip or grass lanes the following mixture is required.

Perennial Ryegrass	10 lbs/acre
Bull Tall Fescue	10 lbs/acre
4. In the areas that may be lawn a common sunny grass seed mixture will be required.
5. Any seeding shall be casted with a hand crank vortex seed spreader.

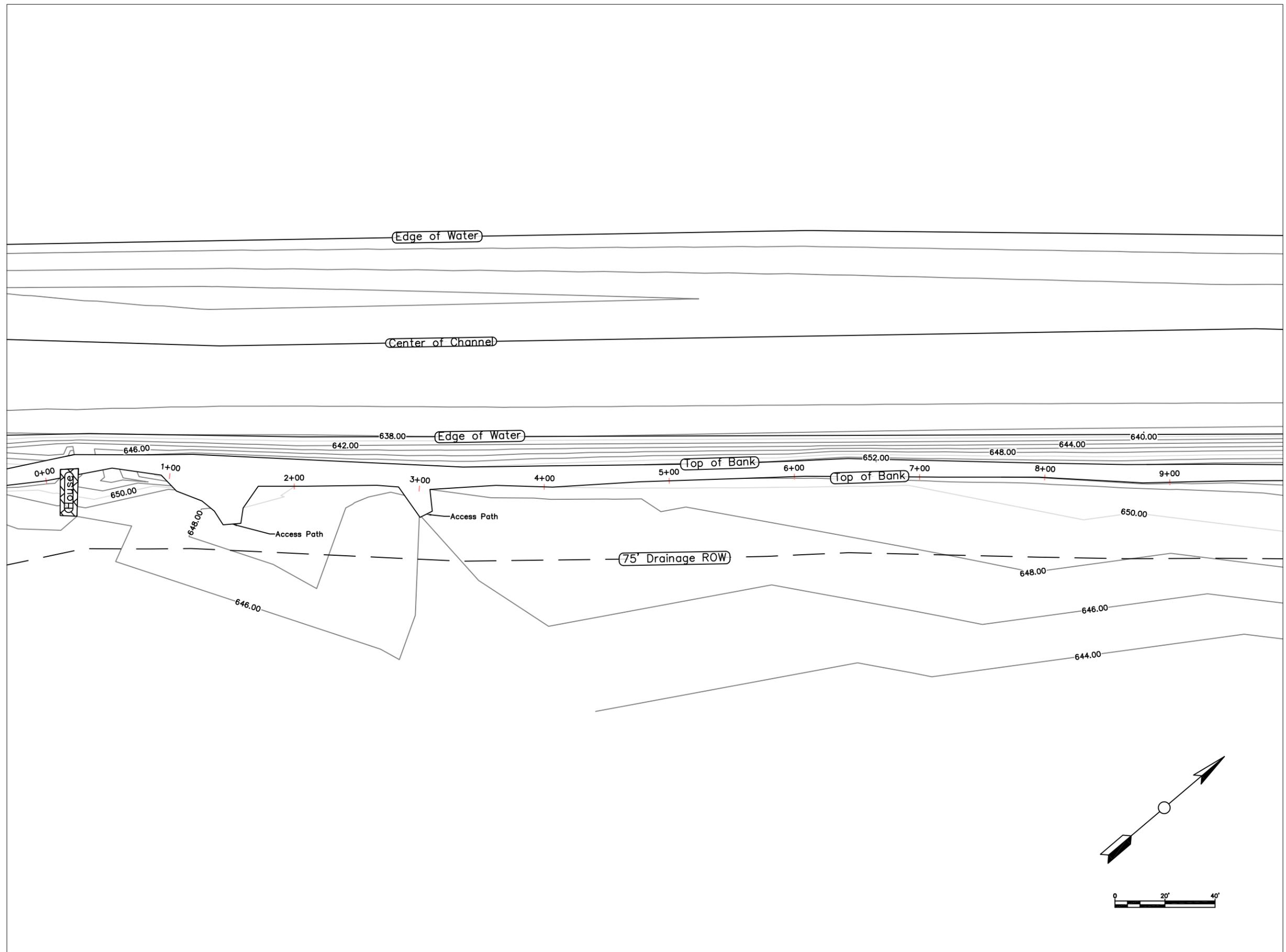
Any questions, please contact the Jasper County Surveyors Office.



# KANKAKEE RIVER

KEENER TOWNSHIP, JASPER COUNTY, INDIANA

	JASPER COUNTY SURVEYOR'S OFFICE
	2530 NORTH MCKINLEY AVENUE RENSELAER, INDIANA 47978
	SURVEYOR: VINCE URBANO PHONE: (219) 866-4907 EMAIL: VINCE.URBANO@CO.JASPER.IN.US
PROJECT LOCATION:	KANKAKEE RIVER (JASPER COUNTY)
LATITUDE:	NORTH 41.2327333°
LONGITUDE:	WEST -87.223784°
DRAWING TITLE:	KANKAKEE RIVER
DRAWING SHEET:	SHEET 1 OF 14
DRAWING DATE:	8/4/2022



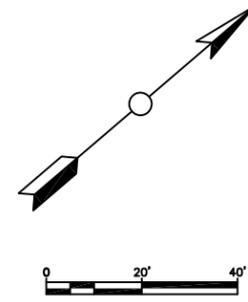
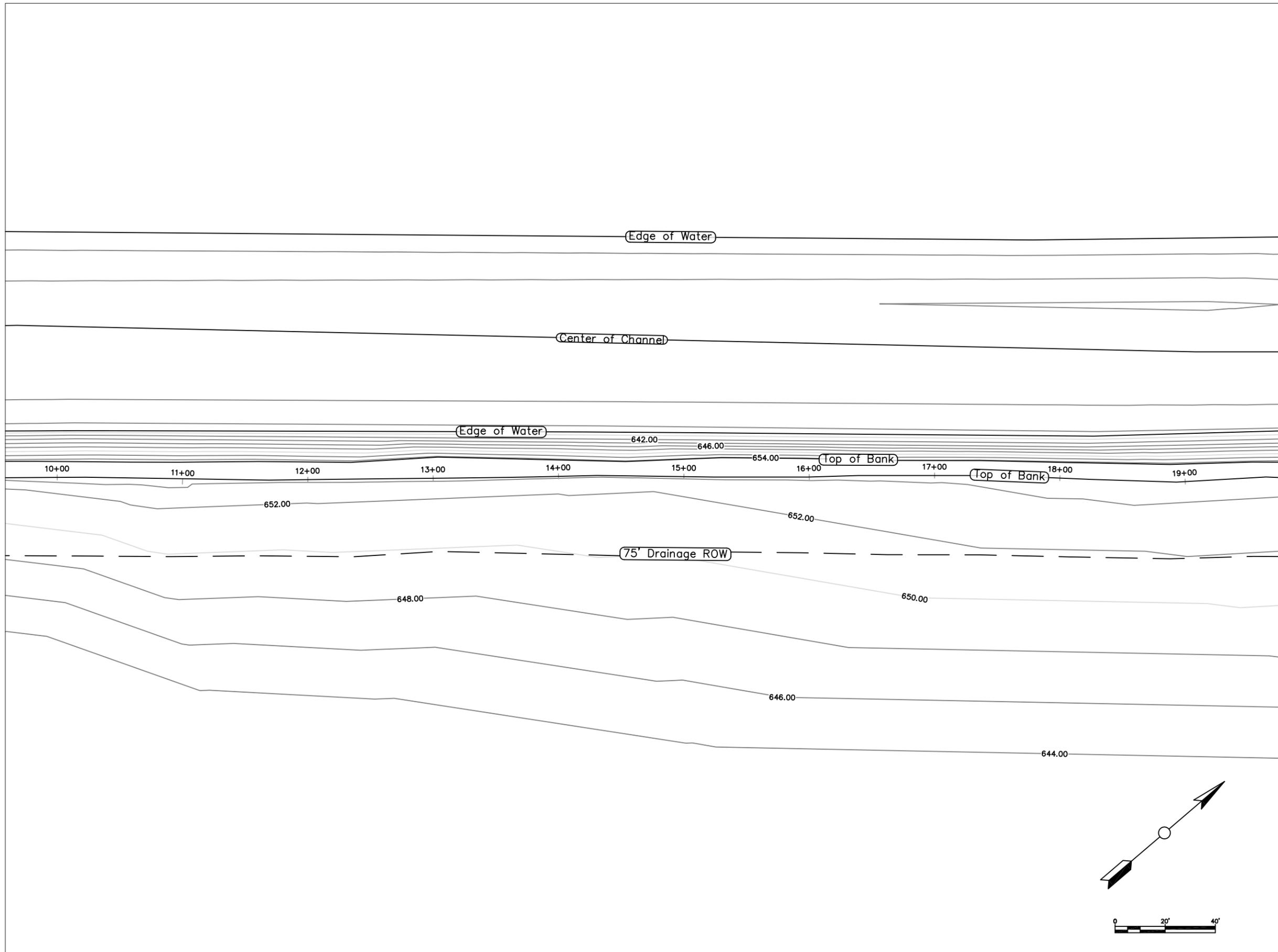
General Notes

No.	Revision/Issue	Date

Firm Name and Address  
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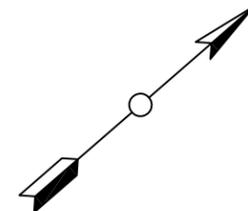
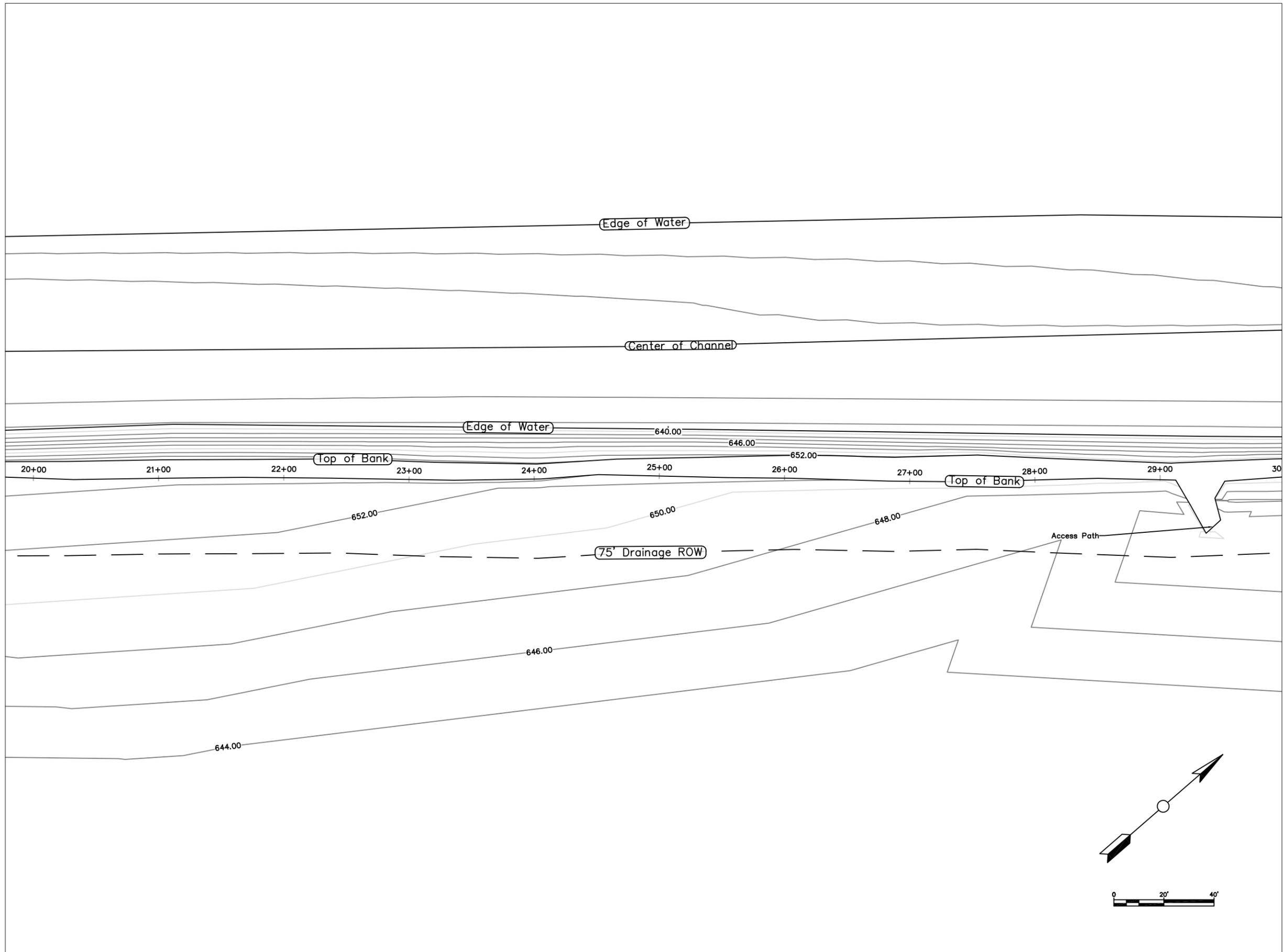
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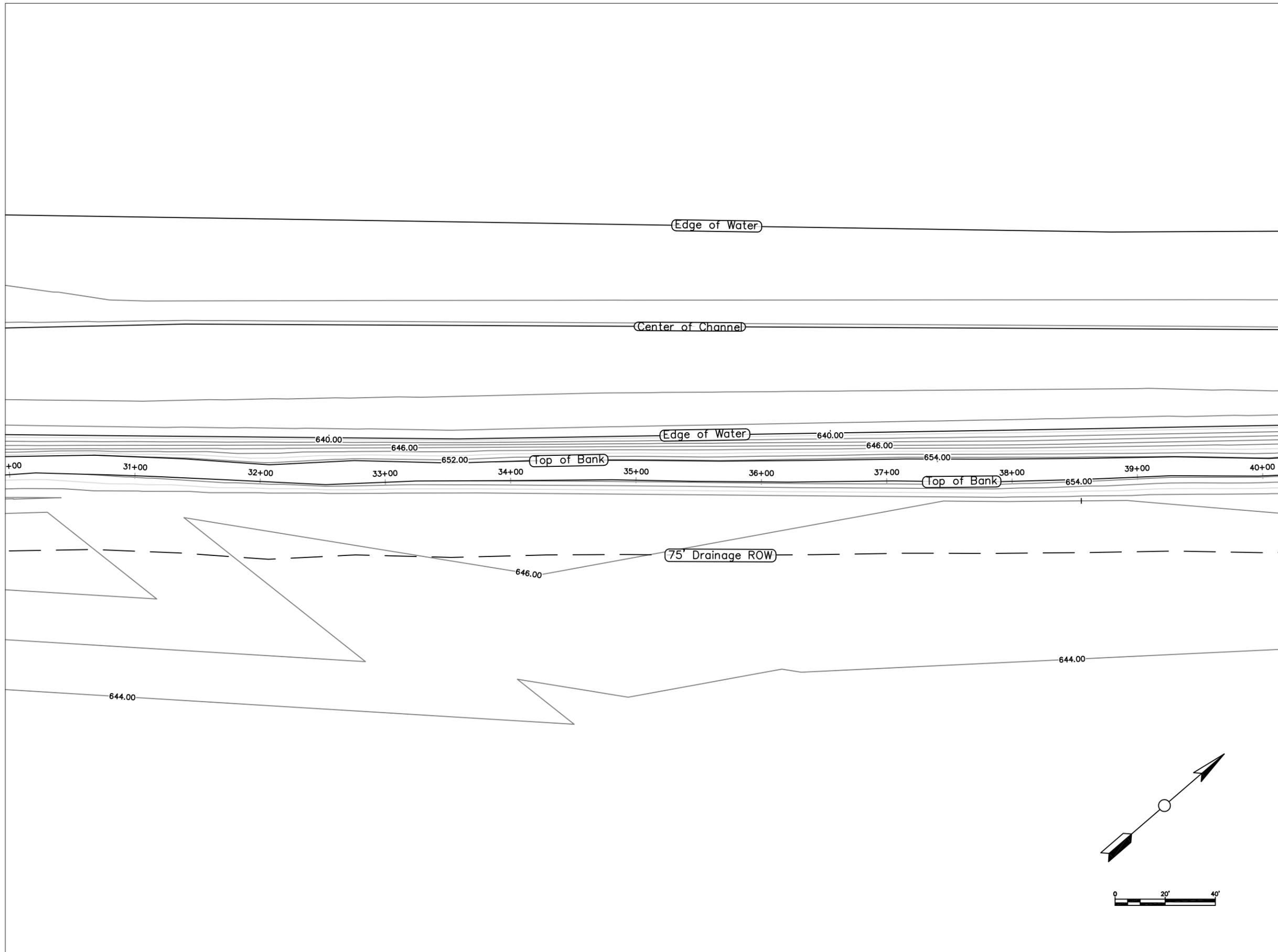
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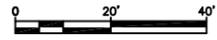
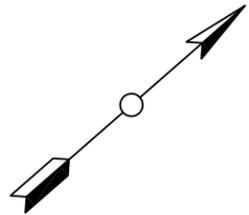
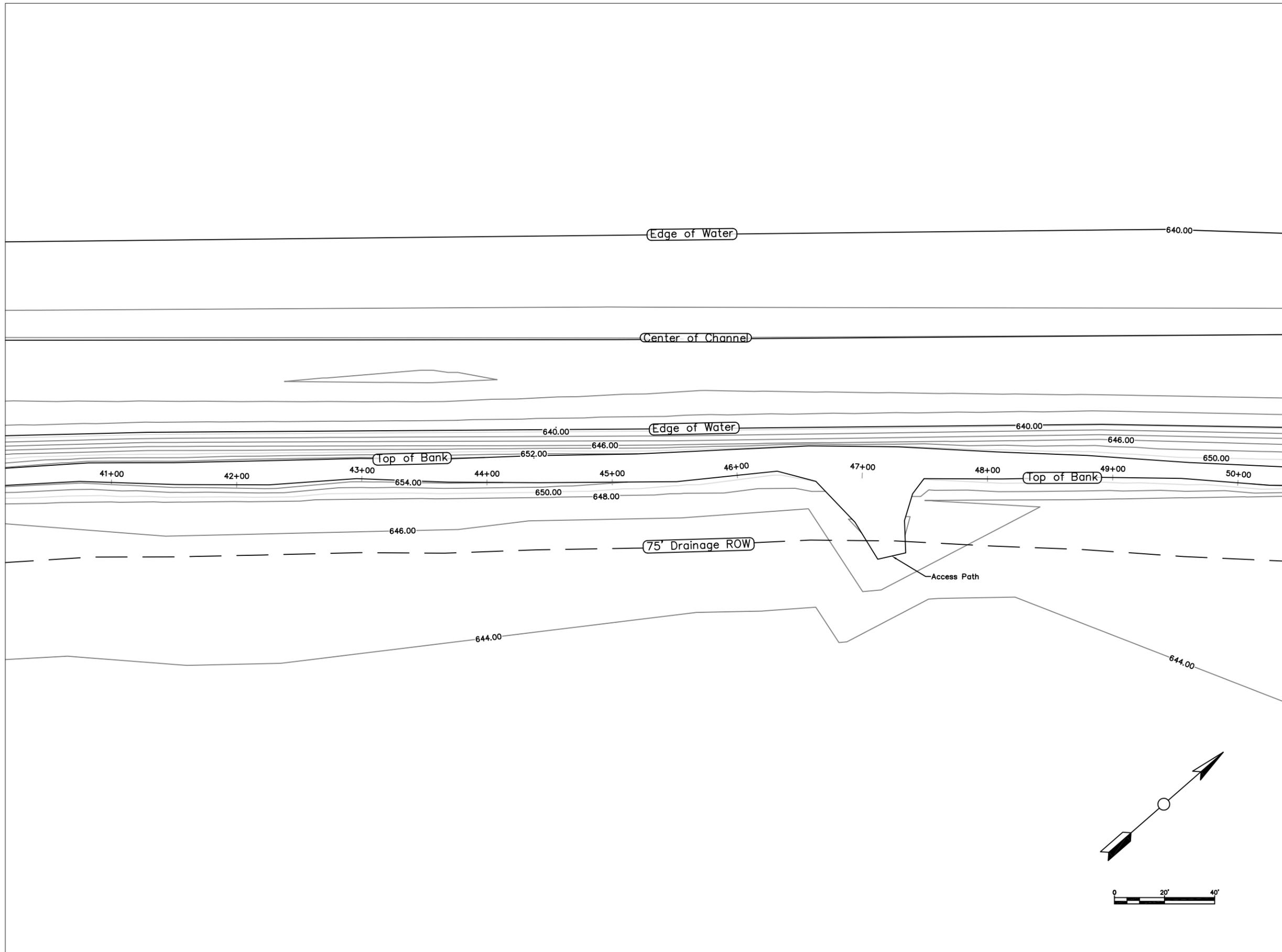
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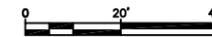
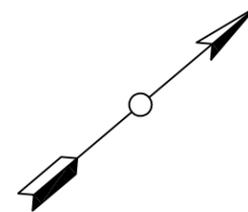
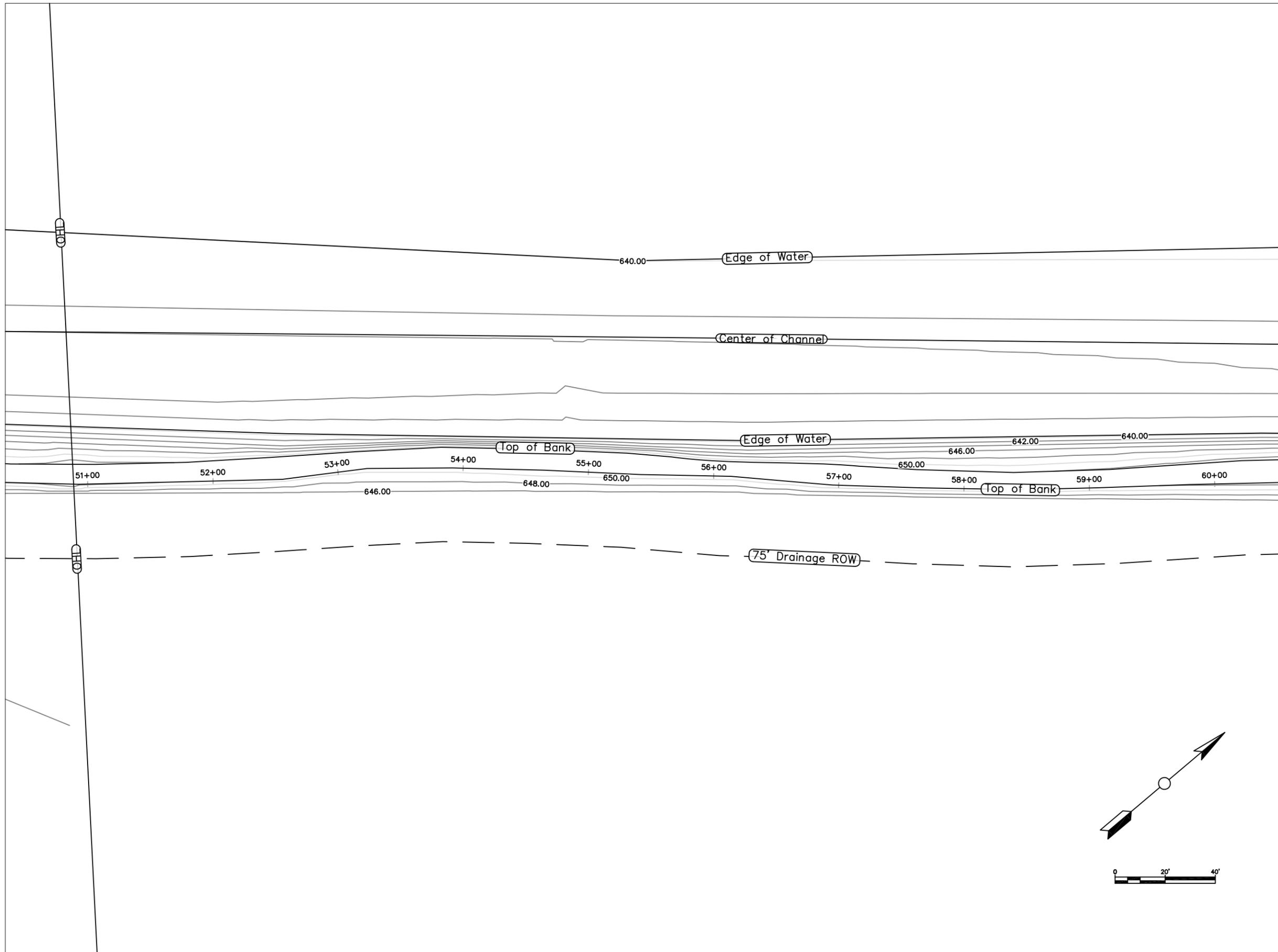
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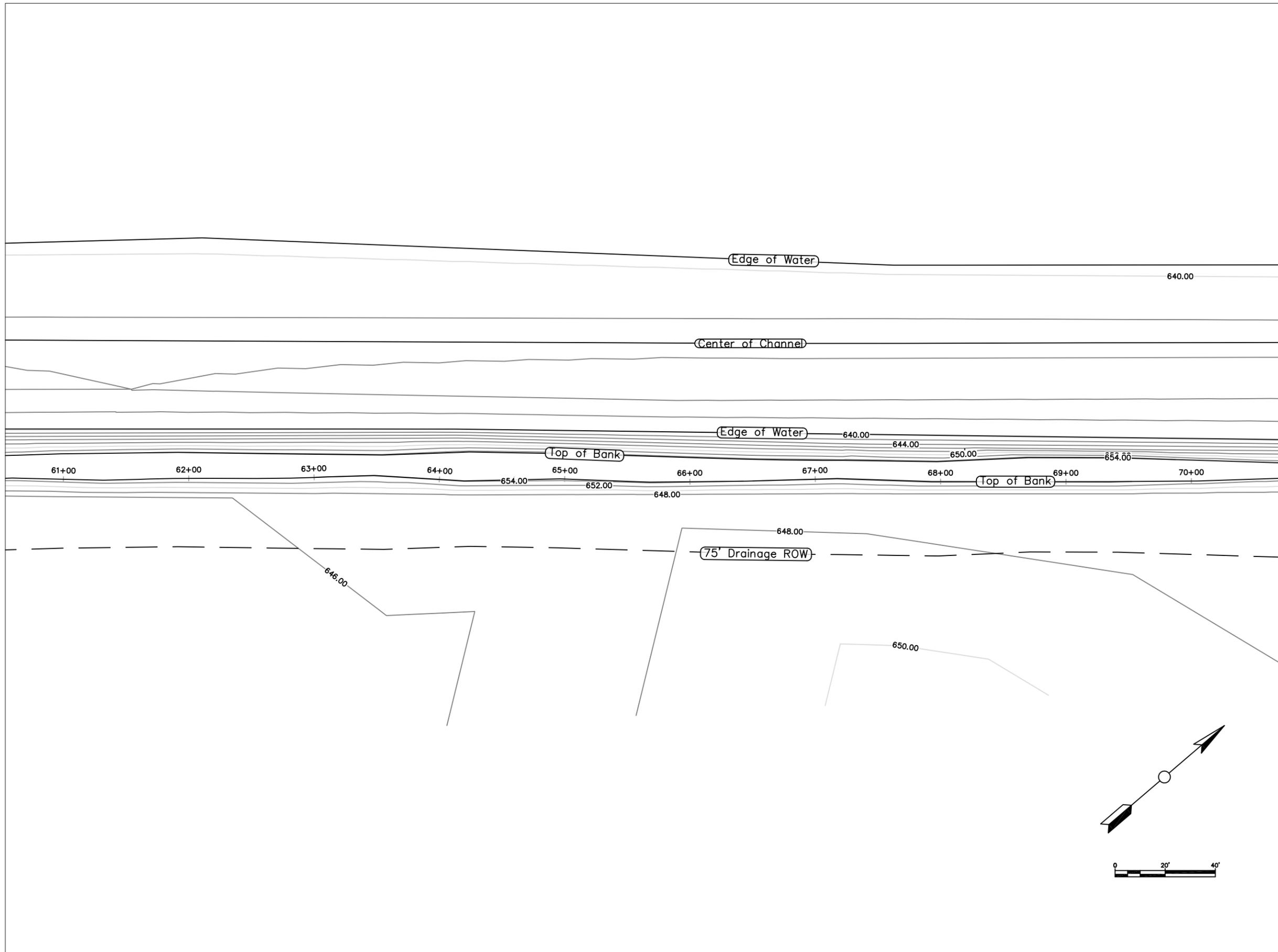
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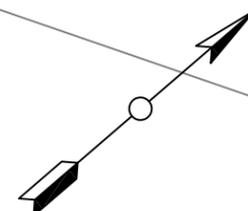
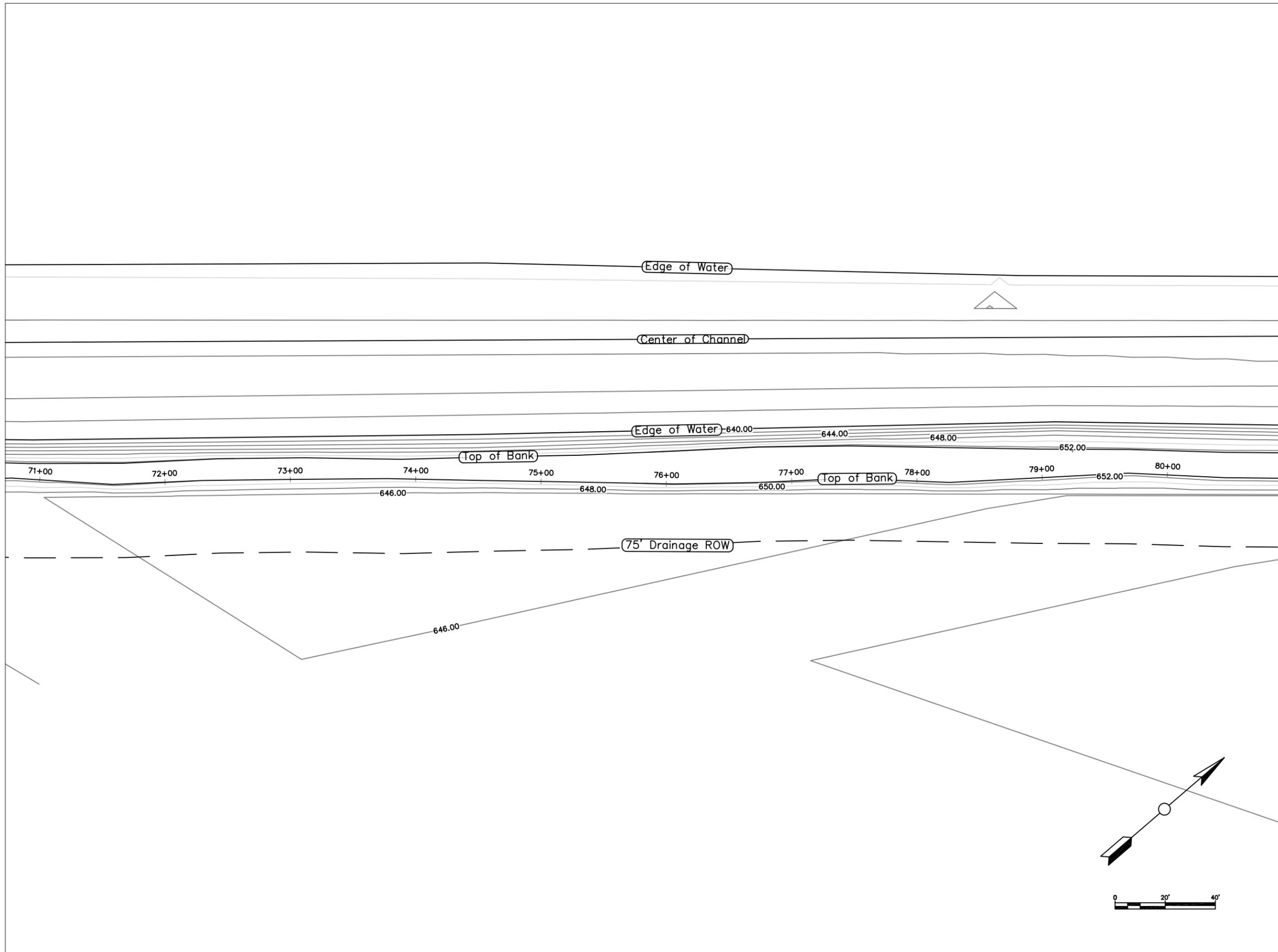
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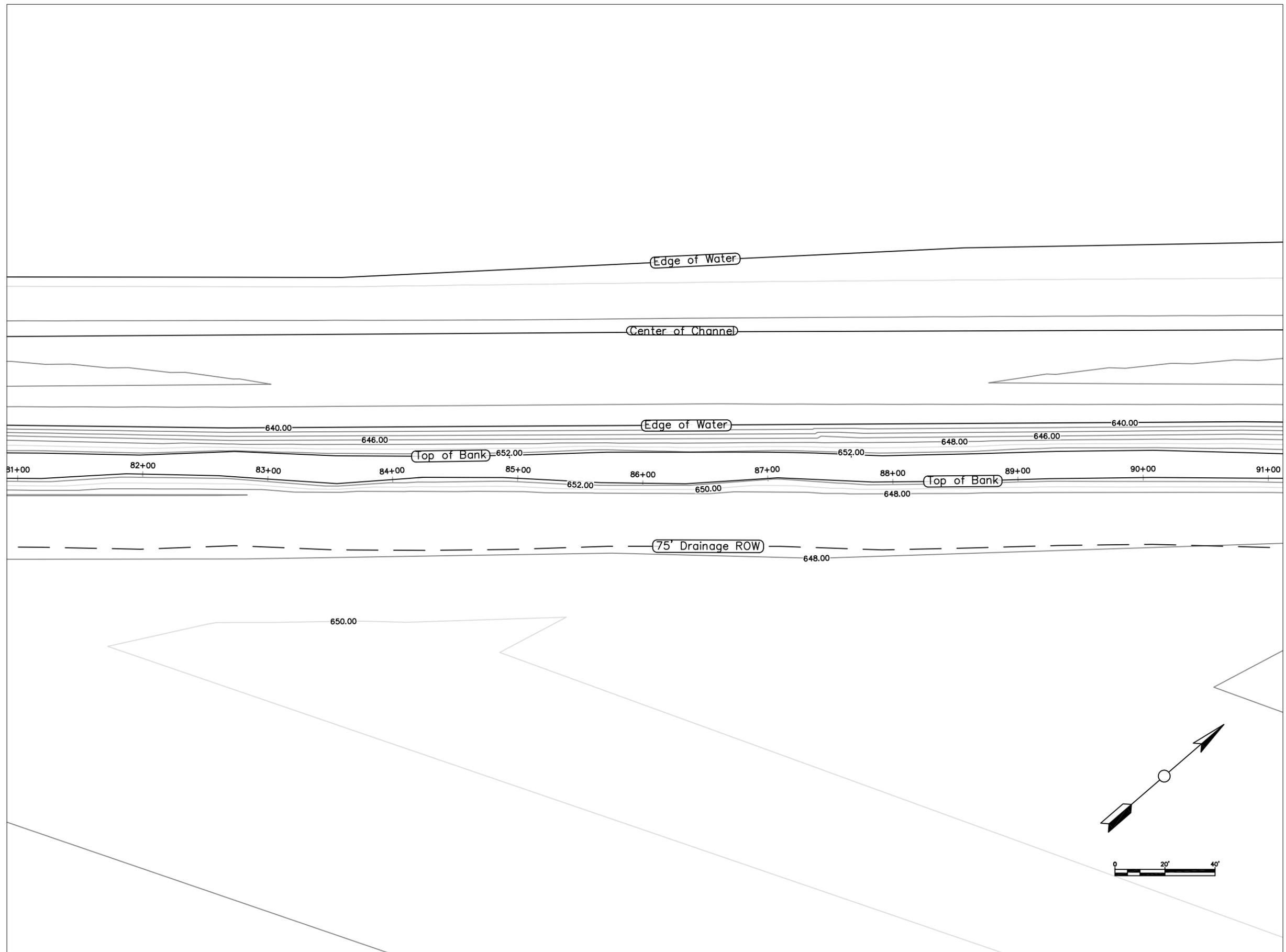
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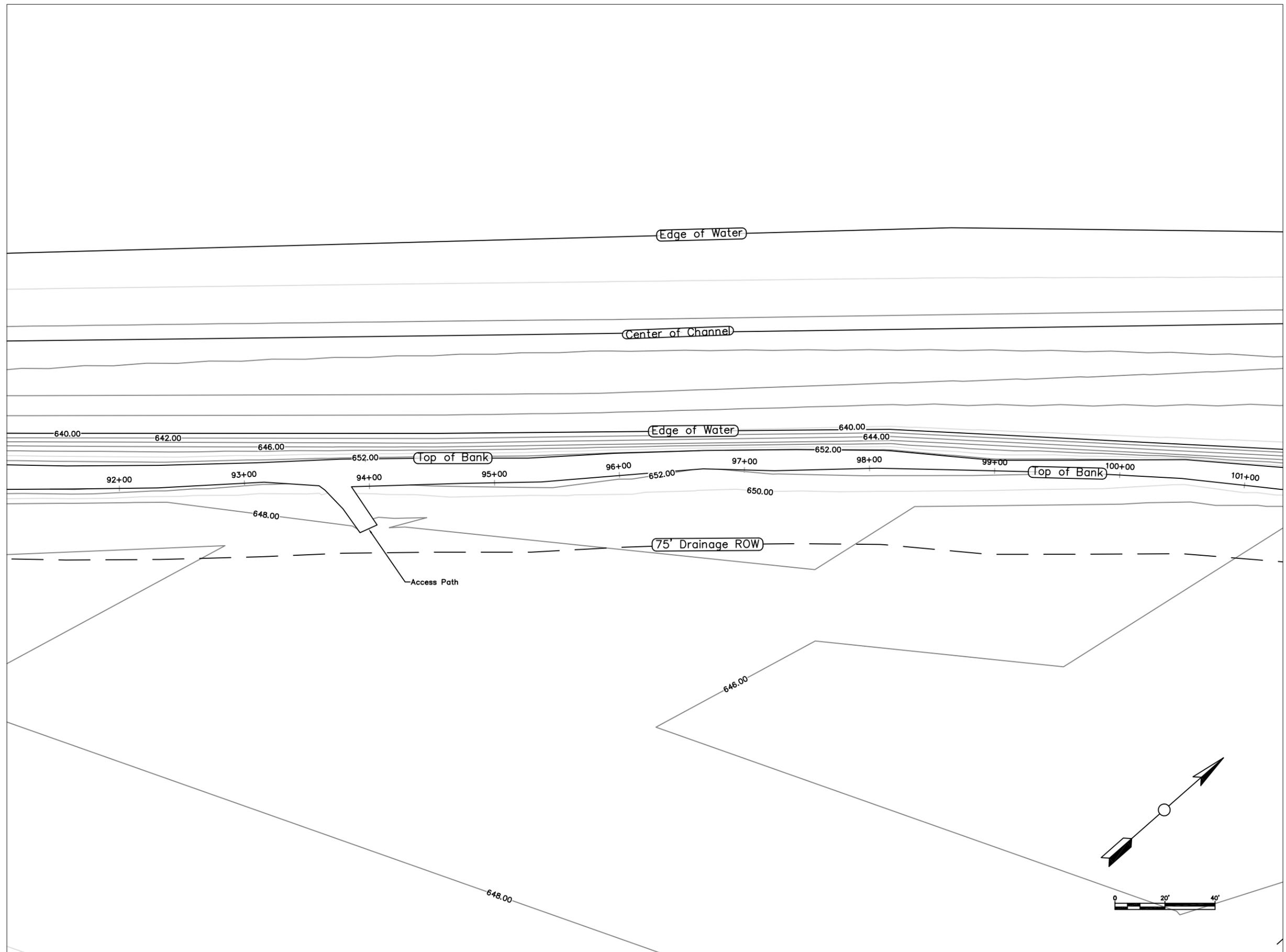
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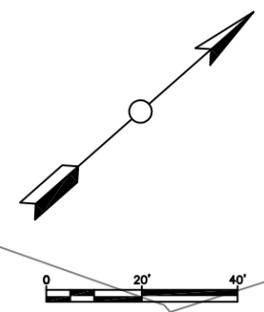
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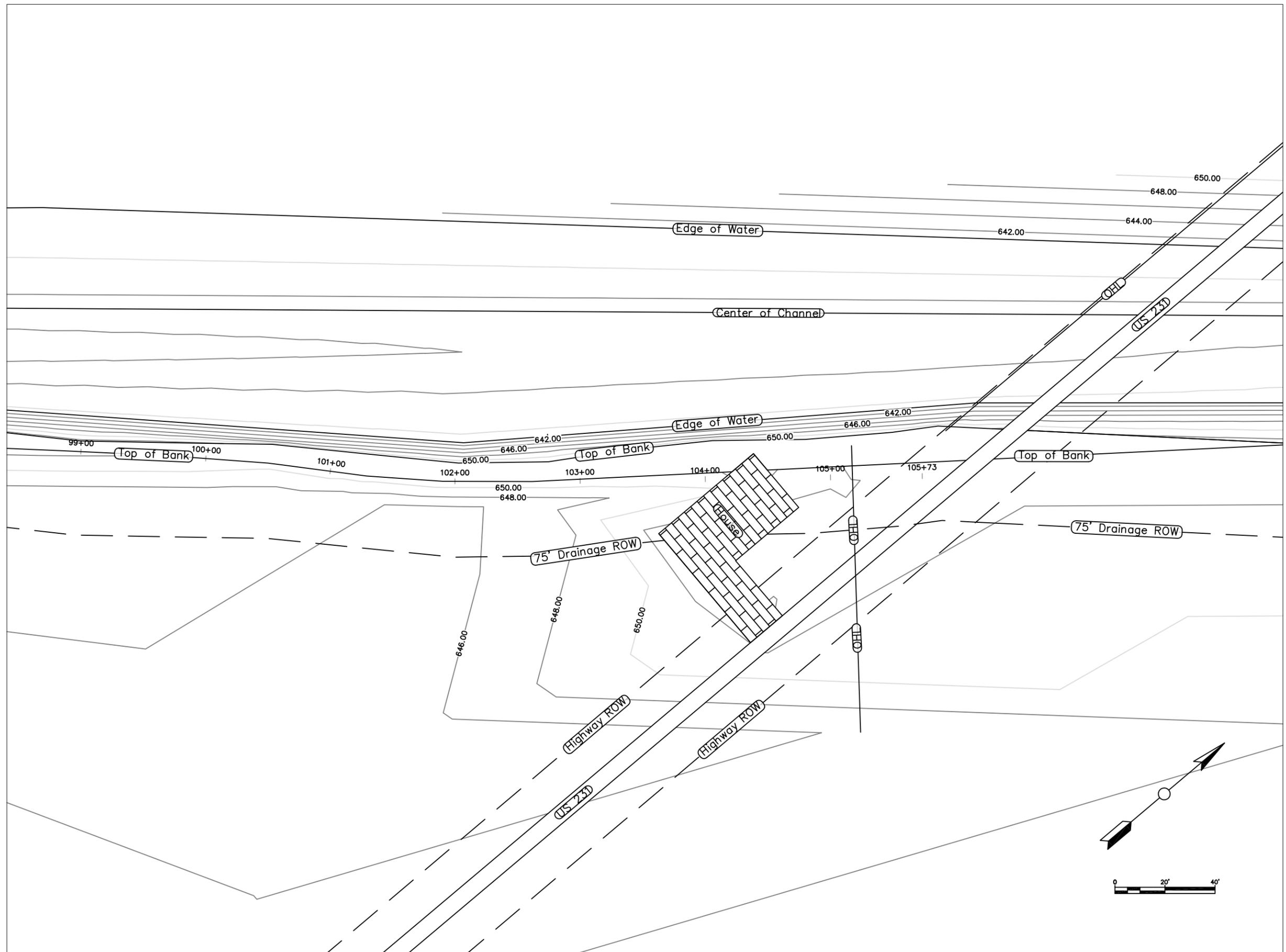
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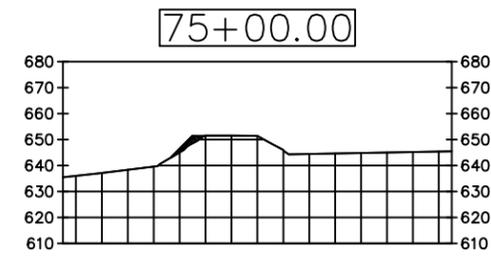
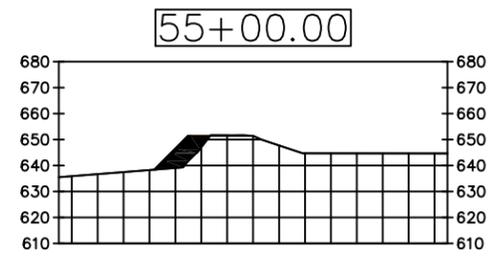
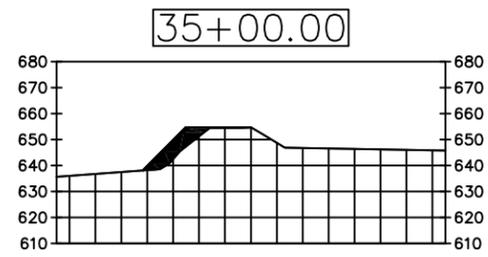
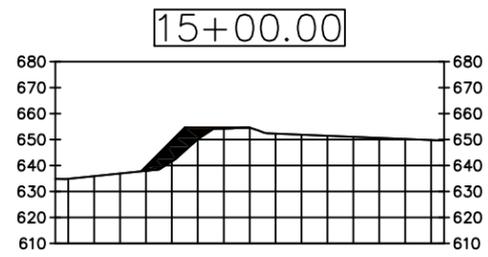
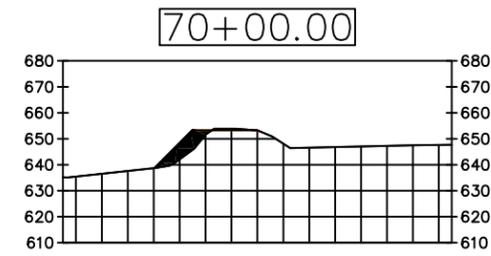
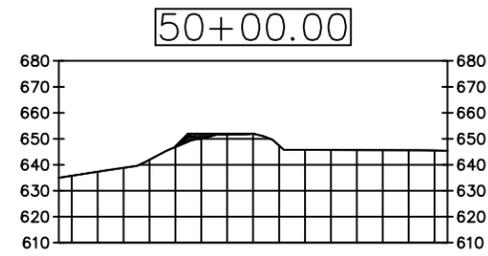
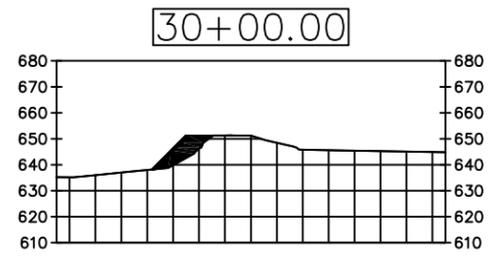
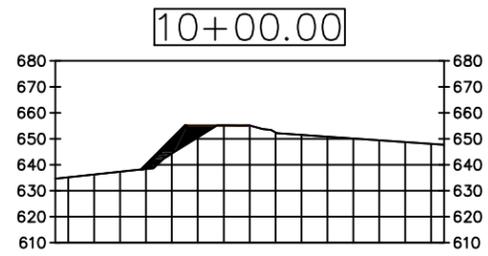
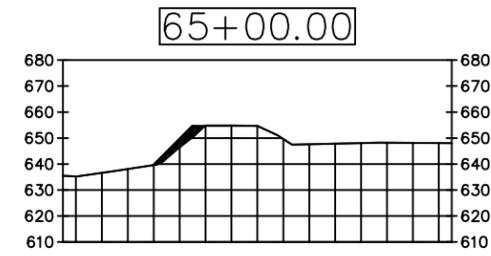
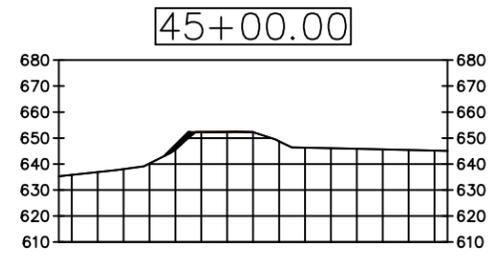
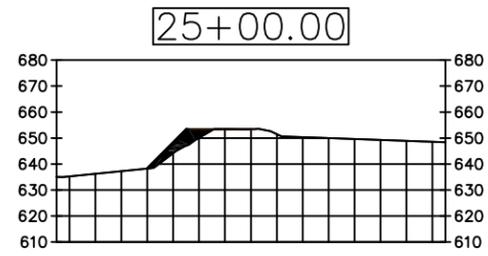
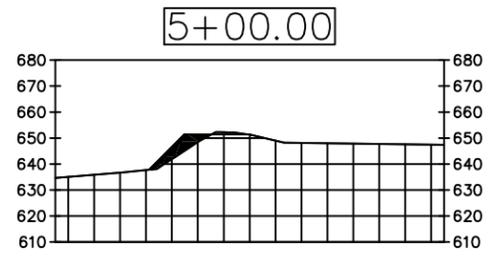
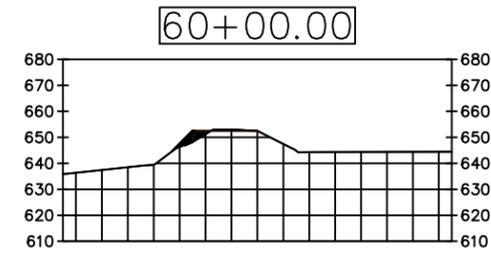
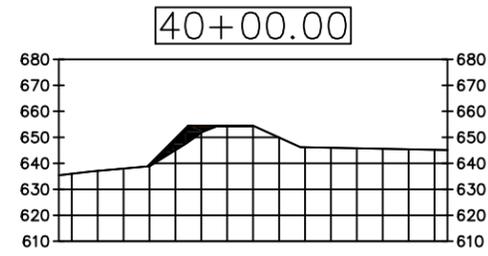
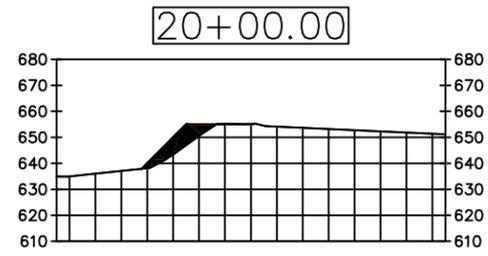
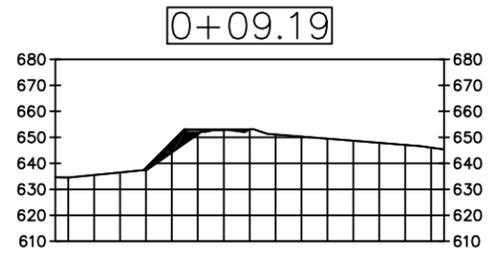
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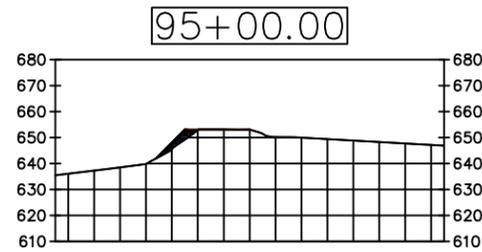
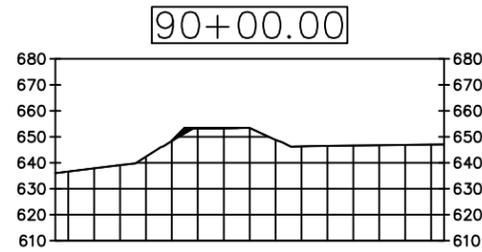
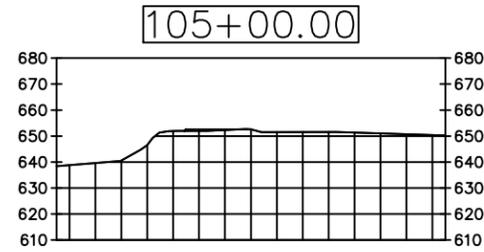
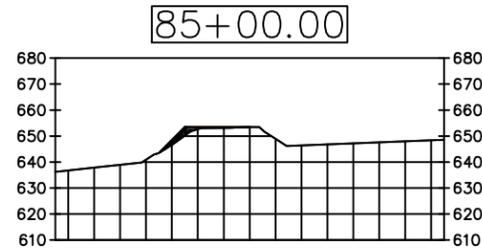
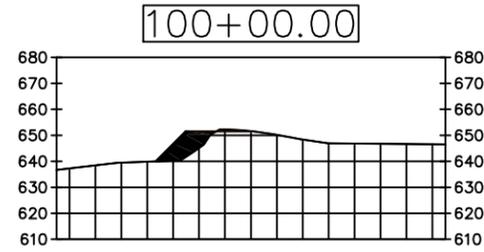
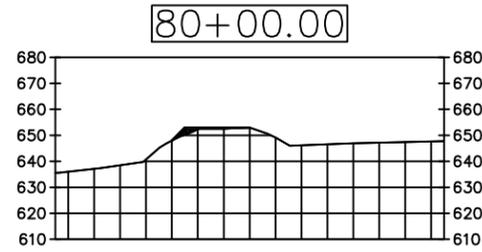
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KANKAKEE RIVER CLEAN FILL MATERIAL			
STATION	CUT AREA	TOTAL CUBIC YARDS	CUMULATIVE TOTAL CUBIC YARDS
0+9.19 - 5+00	63.9598 SQ. FT.	1184.4400	1184.4400
5+00 - 10+00	69.0996 SQ. FT.	1279.6200	2,464.0600
10+00 - 15+00	109.8464 SQ. FT.	2034.1900	4,498.2500
15+00 - 20+00	135.0886 SQ. FT.	2501.6400	6,999.8900
20+00 - 25+00	115.7414 SQ. FT.	2143.3600	9,143.2500
25+00 - 30+00	73.6402 SQ. FT.	1363.7100	10,506.9600
30+00 - 35+00	100.9309 SQ. FT.	1869.0900	12,376.0500
35+00 - 40+00	112.7113 SQ. FT.	2087.2500	14,463.3000
40+00 - 45+00	66.6247 SQ. FT.	1233.7900	15,697.0900
45+00 - 50+00	8.9646 SQ. FT.	166.0100	15,863.1000
50+00 - 55+00	25.4224 SQ. FT.	470.7900	16,333.8900
55+00 - 60+00	105.8834 SQ. FT.	1960.8000	18,294.6900
60+00 - 65+00	23.9957 SQ. FT.	444.3600	18,739.0500
65+00 - 70+00	37.5077 SQ. FT.	694.5900	19,433.6300
70+00 - 75+00	82.0943 SQ. FT.	1520.2600	20,953.8900
75+00 - 80+00	12.3012 SQ. FT.	227.8000	21,181.6900
80+00 - 85+00	17.8906 SQ. FT.	331.3100	21,513.0000
85+00 - 90+00	22.6405 SQ. FT.	419.2700	21,932.2700
90+00 - 95+00	6.2440 SQ. FT.	115.6300	22,047.9000
95+00 - 100+00	23.5723 SQ. FT.	436.5200	22,484.4200
100+00 - 105+00	112.0518 SQ. FT.	2075.0300	24,559.45

KANKAKEE RIVER RIP-RAP ARMOURMENT			
STATION	CUT AREA	TOTAL CUBIC YARDS	CUMULATIVE TOTAL CUBIC YARDS
0+9.19 - 5+00	14.8748 SQ. FT.	275.4600	275.4600
5+00 - 10+00	12.8694 SQ. FT.	238.3200	513.7800
10+00 - 15+00	15.8423 SQ. FT.	293.3800	807.1600
15+00 - 20+00	15.7053 SQ. FT.	290.8400	1,098.0000
20+00 - 25+00	15.9999 SQ. FT.	296.2900	1,394.2900
25+00 - 30+00	14.2514 SQ. FT.	263.9100	1,658.2000
30+00 - 35+00	12.3695 SQ. FT.	229.0600	1,887.2600
35+00 - 40+00	15.5325 SQ. FT.	287.6400	2,174.9000
40+00 - 45+00	14.5099 SQ. FT.	268.7000	2,443.6000
45+00 - 50+00	8.3219 SQ. FT.	154.1100	2,597.7100
50+00 - 55+00	4.7712 SQ. FT.	88.3600	2,686.0700
55+00 - 60+00	12.2882 SQ. FT.	227.5600	2,913.6300
60+00 - 65+00	6.5669 SQ. FT.	121.6100	3,035.2400
65+00 - 70+00	14.1857 SQ. FT.	262.7000	3,297.9400
70+00 - 75+00	13.6521 SQ. FT.	252.8200	3,550.7600
75+00 - 80+00	7.4128 SQ. FT.	137.2700	3,688.0300
80+00 - 85+00	4.4480 SQ. FT.	82.3700	3,770.4000
85+00 - 90+00	8.6746 SQ. FT.	160.6400	3,931.0400
90+00 - 95+00	4.1055 SQ. FT.	76.0300	4,007.0700
95+00 - 100+00	10.0748 SQ. FT.	186.5700	4,193.6400
100+00 - 105+00	11.0068 SQ. FT.	203.8300	4,397.47

No.	Revision/Issue	Date

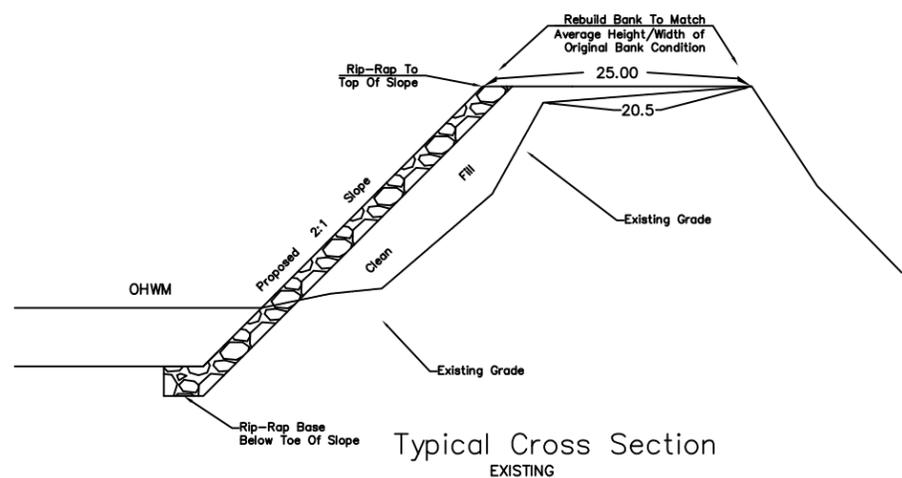
Firm Name and Address  
 JASPER COUNTY SURVEYOR

Project Name and Address  
 KANKAKEE RIVER

Project KANKAKEE RIVER	Sheet 13
Date 8/4/2022	
Scale NA	

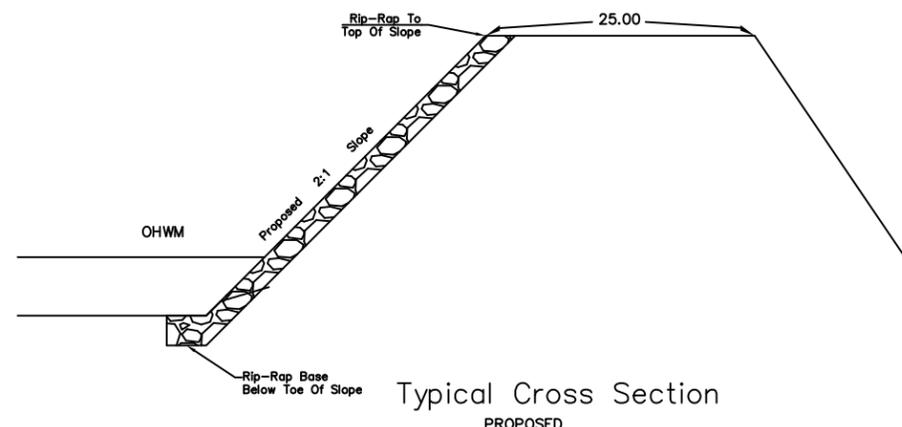
# TYPICAL CROSS SECTION

Kankakee River Project



Typical Cross Section  
EXISTING

Kankakee River Project



Typical Cross Section  
PROPOSED

General Notes

No.	Revision/Issue	Date

Firm Name and Address  
JASPER COUNTY SURVEYOR

Project Name and Address  
KANKAKEE RIVER

Project  
KANKAKEE RIVER

Date  
8/4/2022

Scale  
NA

Sheet

14

# KANKAKEE RIVER

