

ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 1 OF 18

SURVEY NOTES:

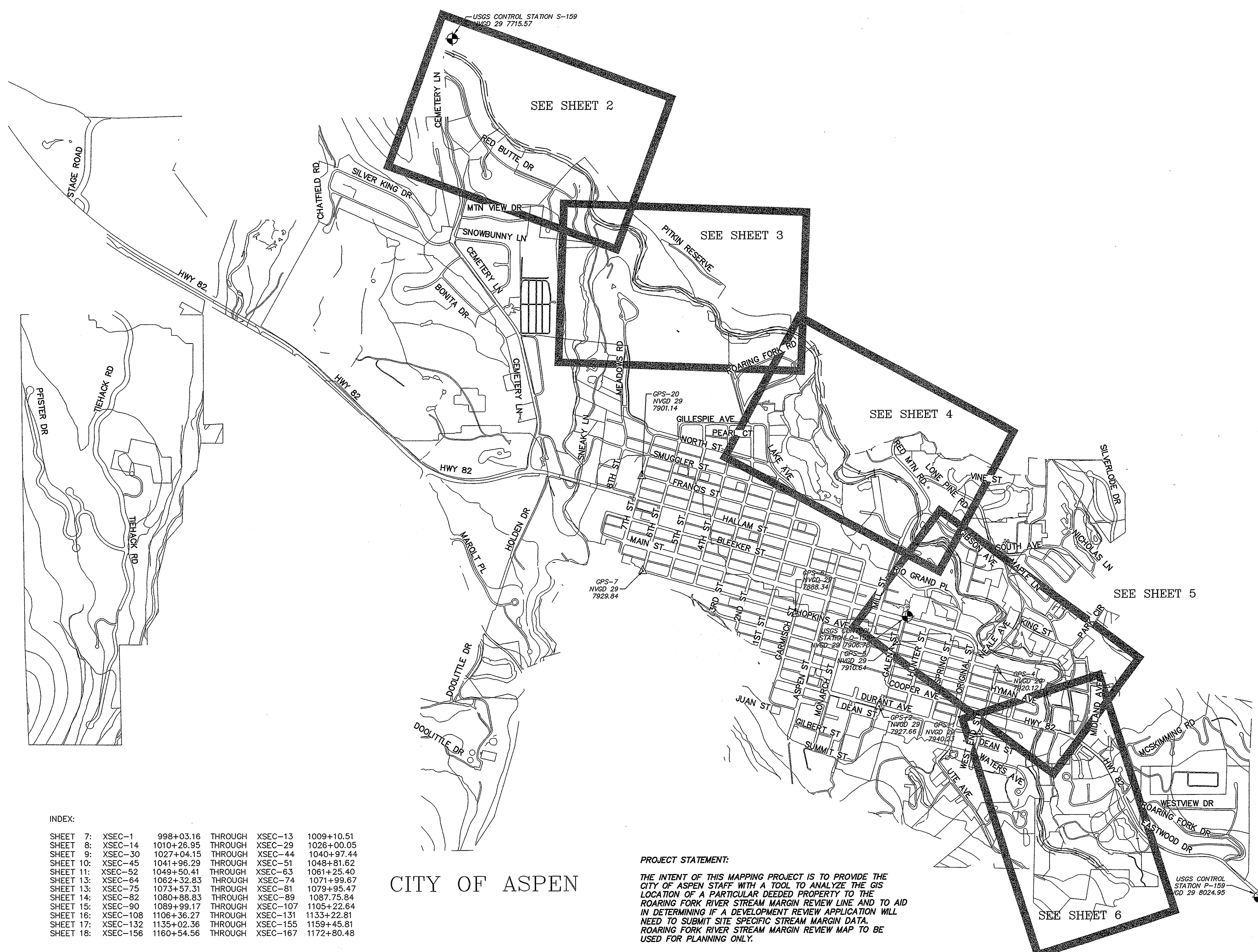
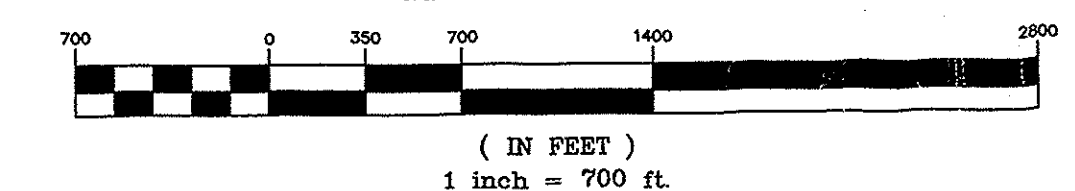
1. DATE OF SURVEY: APRIL-JULY, 2000.
2. DATE OF PREPARATION: JULY-OCTOBER, 2000, UPDATED SEPTEMBER 2001.
3. BASIS OF SURVEY: CITY OF ASPEN, GIS MAPPING, THE 1998 DREXEL BARRELL/CITY OF ASPEN GPS CONTROL MONUMENT SURVEY AND THE USGS BENCHMARKS S519, P159 AND THE USGS ALUM. TABLET AT SW CORNER PITKIN COUNTY COURTHOUSE (Q-159).
4. BASIS OF ELEVATION: AN NAVD 88 ELEVATION OF 7920.88' ON THE USGS BENCHMARK S159. THE NAVD88 PROJECT DATA BASE WAS TRANSFORMED TO NVGD 29 ELEVATION DATUM BY APPLYING A CORRECTION OF -5.31' (BASED ON PUBLISHED & FIELD SURVEY DATA ON THE BENCHMARKS LISTED IN NOTE NO. 3).
5. VERTICAL DATUM: NVGD 29 DATUM (FEMA DATUM). THE FIELD DATA/CROSS SECTIONS WERE LOCATED BASED ON THE 1988 CITY OF ASPEN CONTROL SURVEY (NAVD 88) AND TRANSFORMED TO THE 1929 DATUM BASED ON THE FOLLOWING:
 - A. THE BENCHMARKS IDENTIFIED IN NOTE 3 WERE LOCATED PER THE NAVD 88 DATUM AND A MEAN ELEVATION DIFFERENCE BETWEEN THE 88 AND 29 DATUMS FOR THOSE BENCHMARKS WAS DETERMINED TO BE -5.31'.
 - B. ALL THE FIELD LOCATION AND CROSS SECTION POINT ELEVATIONS WERE ADJUSTED BY -5.31 AS A BLOCK TO REFLECT THE NVGD DATUM WHICH IS CONSISTENT WITH THE GIS AND FEMA MAPPING.
6. HORIZONTAL COORDINATE SYSTEM: THE CITY OF ASPEN GIS MAPPING COORDINATE SYSTEM. THE FIELD DATA/CROSS SECTIONS WERE LOCATED PER THE 1998 CITY OF ASPEN CONTROL SURVEY MODIFIED STATE PLANE COORDINATE SYSTEM AND TRANSFORMED TO SAID GIS SYSTEM AS FOLLOWS:
 - A. IDENTIFIABLE BRIDGES AND STRUCTURES SHOWN ON THE GIS MAPPING WERE FIELD LOCATED ALONG THE EXTENTS OF THE CROSS SECTIONS.
 - B. ALL THE FIELD LOCATIONS AND CROSS SECTIONS WERE THEN ROTATED AND TRANSLATED AS A BLOCK TO THE GIS SYSTEM BASED ON POSITIONS WHICH MINIMIZED THE APPARENT DISCREPANCY BETWEEN SELECT BRIDGE AND STRUCTURE CORNER LOCATIONS REPRESENTED IN BOTH THE GIS AND FIELD SYSTEMS.
7. THE 100 & 500 YEAR FLOOD PLAIN, SHOWN HEREON, IS LOCATED BASED ON THE FOLLOWING:
 - A. THE FLOOD INSURANCE RATE MAPS (FIRM) PREPARED FOR PITKIN COUNTY, COLORADO PANEL No.S 08097C0201 C, 08097C0203 C, AND 08097C0204 C EFFECTIVE DATE JUNE 4, 1987 WERE SCANNED AND OVERLAID TO THE GIS HORIZONTAL DATUM BY THE SAME METHODS IDENTIFIED IN NOTE 6.
 - B. THE FIELD CROSS SECTION POINT DATA WAS USED TO DEVELOP A DIGITAL TERRAIN MODEL FOR THE RIVER CORRIDOR. THE LIMITS OF THE 100 YEAR FLOOD PLAIN WAS THEN ESTABLISHED BY THE INTERSECTION OF THE FIRM PANEL ELEVATION CROSS SECTION LINES WITH THE CORRESPONDING ELEVATION DETERMINED FROM THE FIELD MODEL.
8. THE TOP OF BANK LINE REPRESENTS FIELD SURVEYED LOCATIONS, BUT DOES NOT CONSTITUTE A SLOPE FAILURE LINE. NO GEOTECHNICAL WORK WAS PERFORMED AS A PART OF THIS SURVEY.
9. THE EXISTING CONDITIONS/TOPOGRAPHY SHOWN HEREON ARE FROM THE CITY OF ASPEN GIS MAPPING.

MONUMENT LEGEND

- USGS CONTROL STATIONS/BENCHMARKS
- 1988 CITY OF ASPEN - DREXEL BARRELL & COMPANY CONTROL MONUMENTS



GRAPHIC SCALE



INDEX:

SHEET 7:	XSEC-1	998+03.16	THROUGH	XSEC-13	1009+10.51
SHEET 8:	XSEC-14	1010+26.95	THROUGH	XSEC-29	1026+00.05
SHEET 9:	XSEC-30	1027+04.15	THROUGH	XSEC-44	1040+97.44
SHEET 10:	XSEC-45	1041+96.29	THROUGH	XSEC-51	1048+81.62
SHEET 11:	XSEC-52	1049+50.41	THROUGH	XSEC-63	1061+25.40
SHEET 13:	XSEC-64	1062+32.83	THROUGH	XSEC-74	1071+99.67
SHEET 13:	XSEC-75	1073+57.31	THROUGH	XSEC-81	1079+95.47
SHEET 14:	XSEC-82	1080+88.83	THROUGH	XSEC-89	1087.75.84
SHEET 15:	XSEC-90	1089+99.17	THROUGH	XSEC-107	1105+22.64
SHEET 16:	XSEC-108	1106+36.27	THROUGH	XSEC-131	1135+22.81
SHEET 17:	XSEC-132	1135+02.36	THROUGH	XSEC-155	1159+45.81
SHEET 18:	XSEC-156	1160+54.56	THROUGH	XSEC-167	1172+80.48

CITY OF ASPEN

PROJECT STATEMENT:

THE INTENT OF THIS MAPPING PROJECT IS TO PROVIDE THE CITY OF ASPEN STAFF WITH A TOOL TO ANALYZE THE GIS LOCATION OF A PARTICULAR DEEDED PROPERTY TO THE ROARING FORK RIVER STREAM MARGIN REVIEW LINE AND TO AID IN DETERMINING IF A DEVELOPMENT REVIEW APPLICATION WILL NEED TO SUBMIT SITE SPECIFIC STREAM MARGIN DATA. ROARING FORK RIVER STREAM MARGIN REVIEW MAP TO BE USED FOR PLANNING ONLY.

SOPRIS ENGINEERING - LLC

CIVIL CONSULTANTS
502 MAIN STREET, SUITE A3
CARBONDALE, COLORADO 81623
(970) 704-0311

SURVEYORS STATEMENT

I, MARK S. BECKLER, DO HEREBY STATE THAT THIS SURVEY WAS PREPARED BY SOPRIS ENGINEERING, LLC FOR THE CITY OF ASPEN, COLORADO AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: MARK S. BECKLER L.S. No. 28643

ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 2 OF 18

SURVEY NOTES:

1. DATE OF SURVEY: APRIL-JULY, 2000.
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6. HORIZONTAL COORDINATE SYSTEM: THE CITY OF ASPEN GIS MAPPING COORDINATE SYSTEM. THE FIELD DATA/CROSS SECTIONS WERE LOCATED PER THE 1998 CITY OF ASPEN CONTROL SURVEY MODIFIED STATE PLANE COORDINATE SYSTEM AND TRANSFORMED TO SAID GIS SYSTEM AS FOLLOWS:

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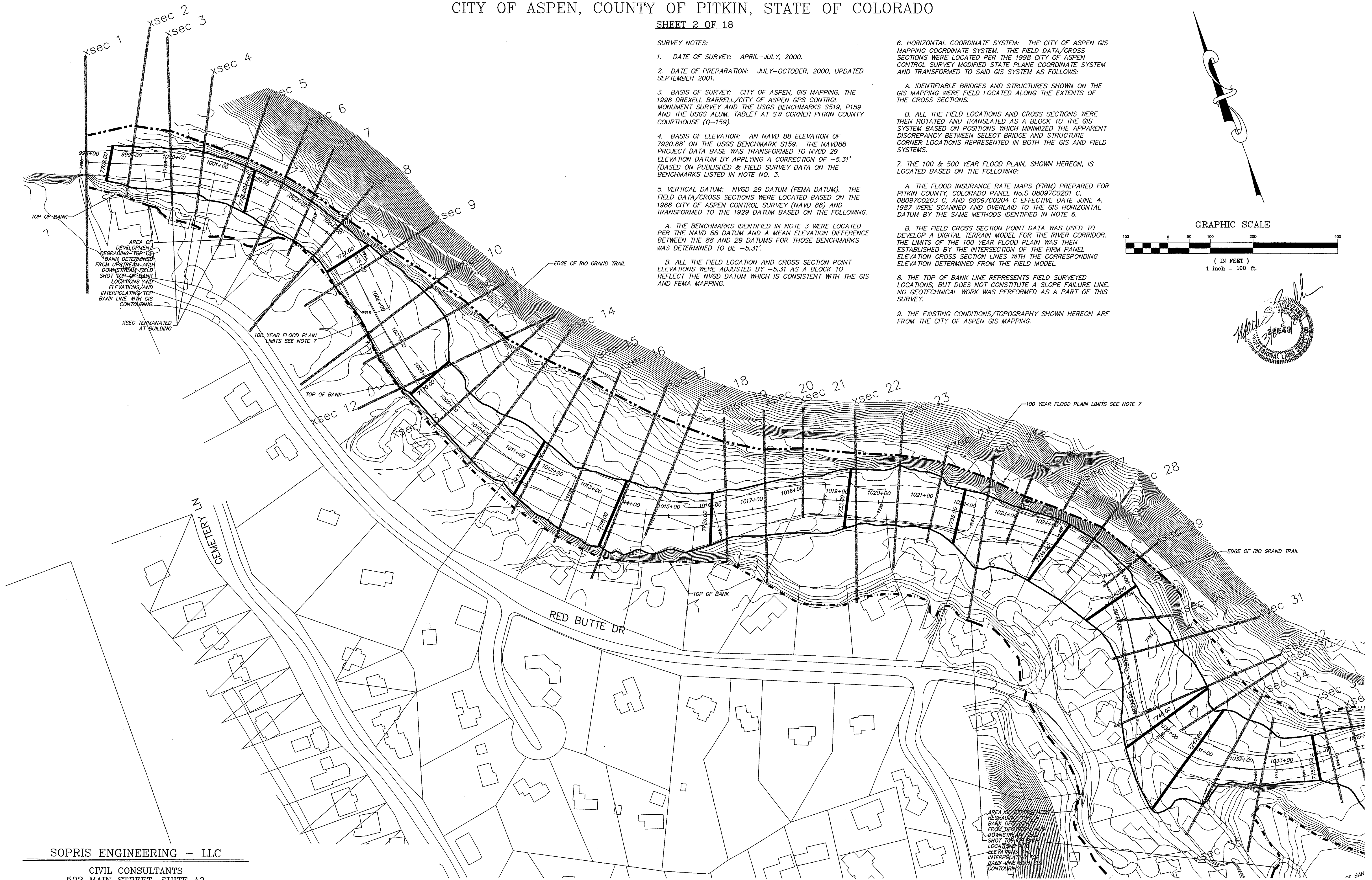
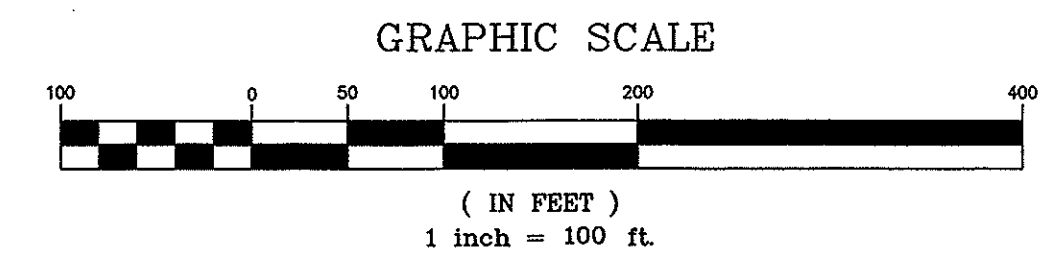
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8. THE TOP OF BANK LINE REPRESENTS FIELD SURVEYED LOCATIONS, BUT DOES NOT CONSTITUTE A SLOPE FAILURE LINE. NO GEOTECHNICAL WORK WAS PERFORMED AS A PART OF THIS SURVEY.

9. THE EXISTING CONDITIONS/TOPOGRAPHY SHOWN HEREON ARE FROM THE CITY OF ASPEN GIS MAPPING.



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MATCH LINE
SEE SHEET 3

ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 3 OF 18

SURVEY NOTES:

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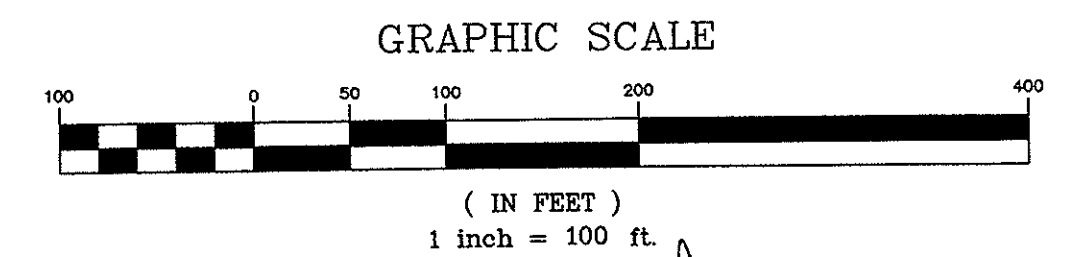
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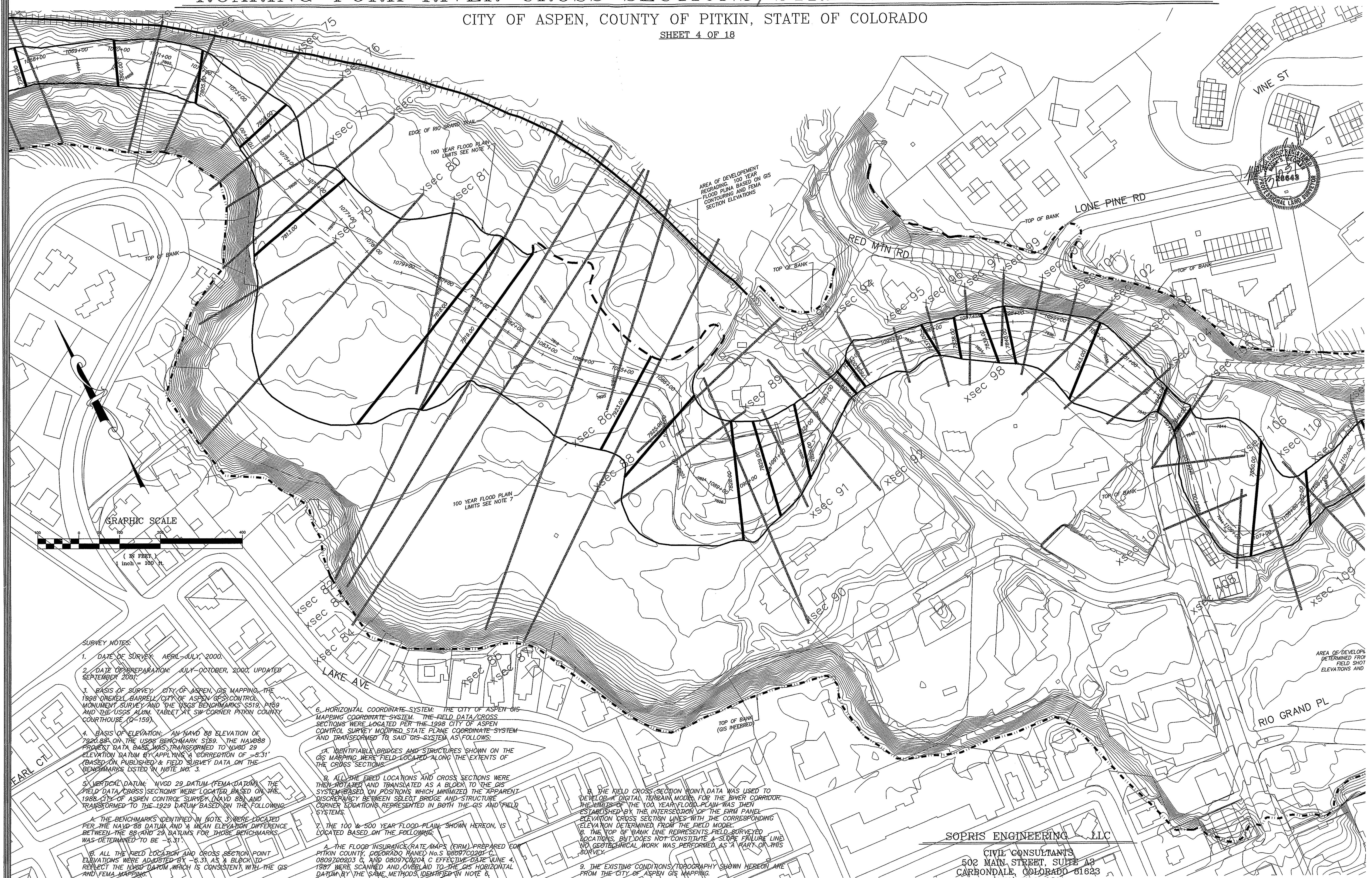
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ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 4 OF 18



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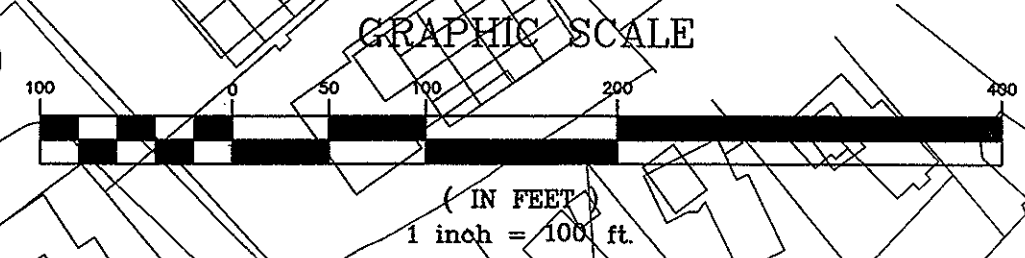
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PLANNING REVIEW MAP OF:

SHEET 5 OF 18



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ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 6 OF 18



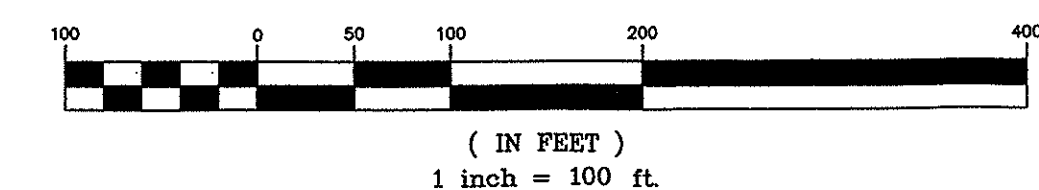
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GRAPHIC SCALE

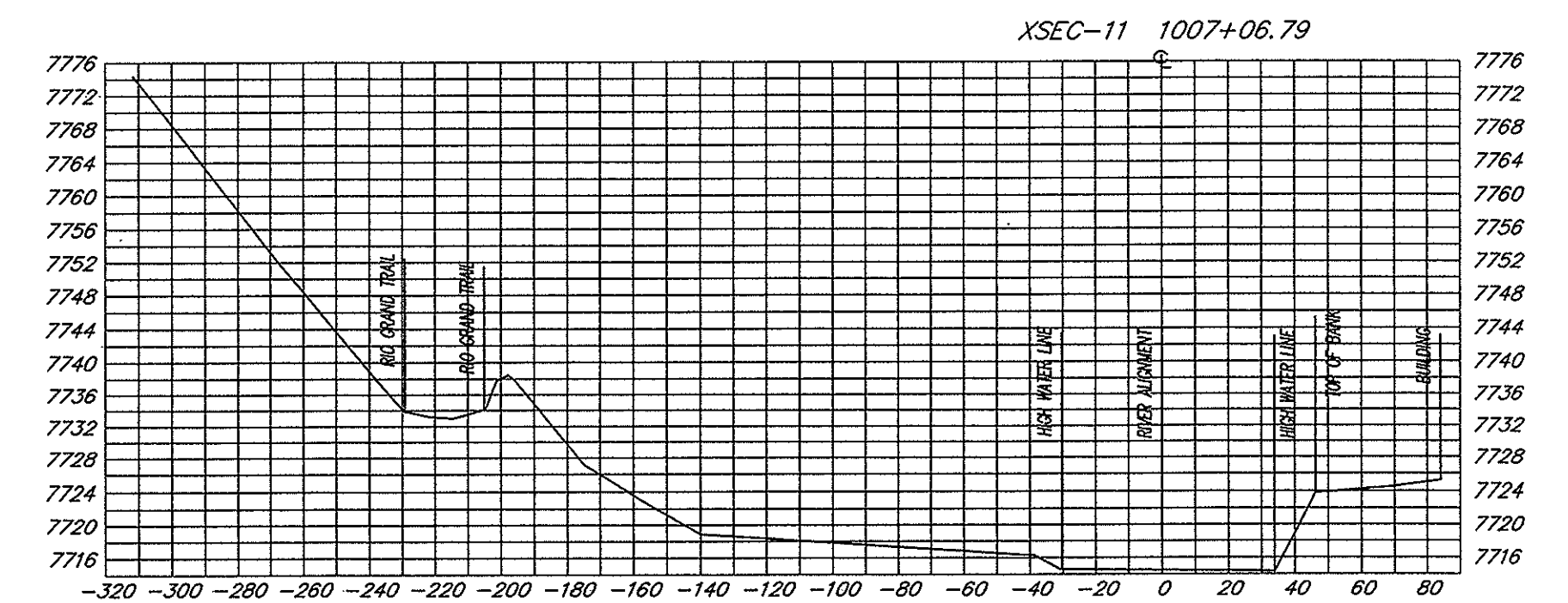
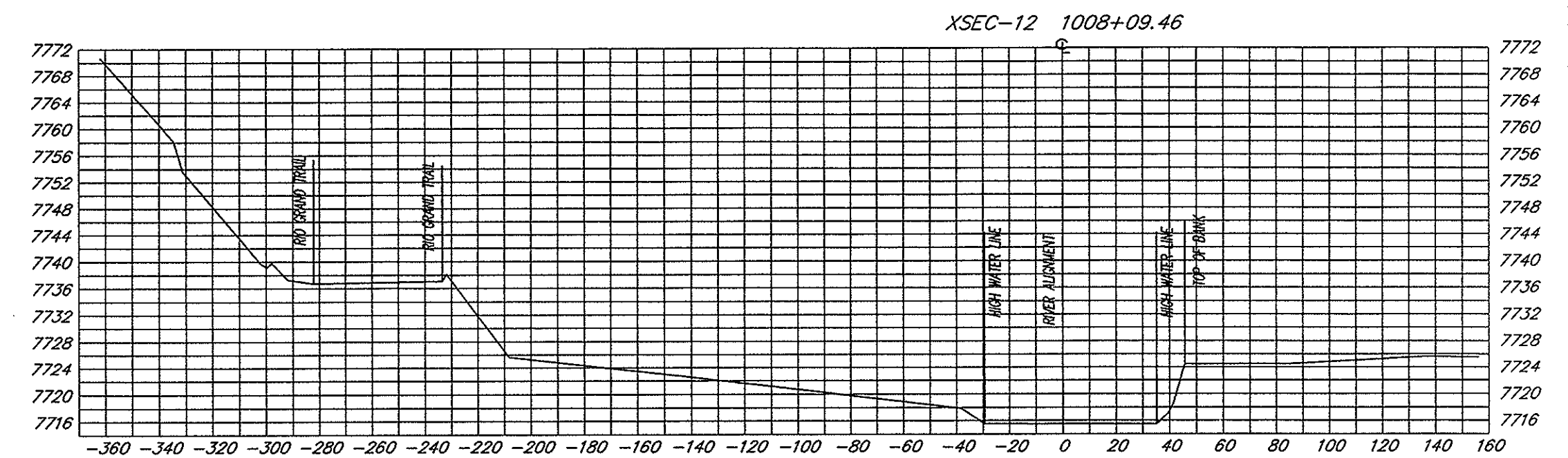
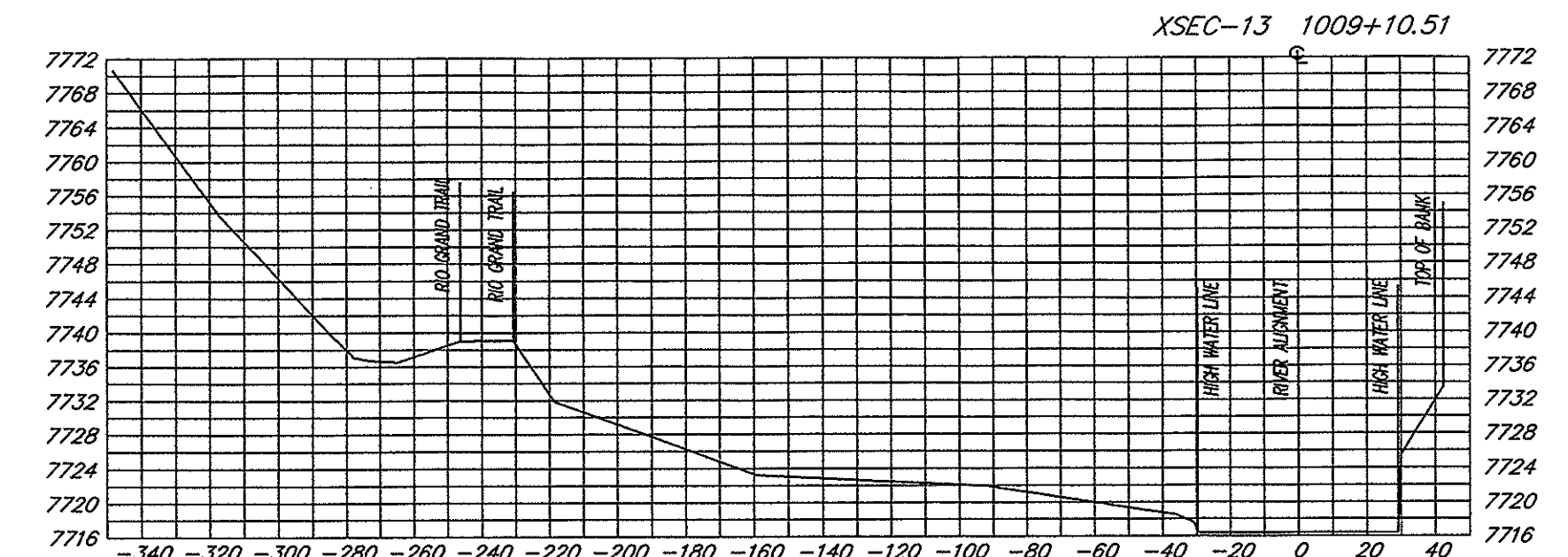
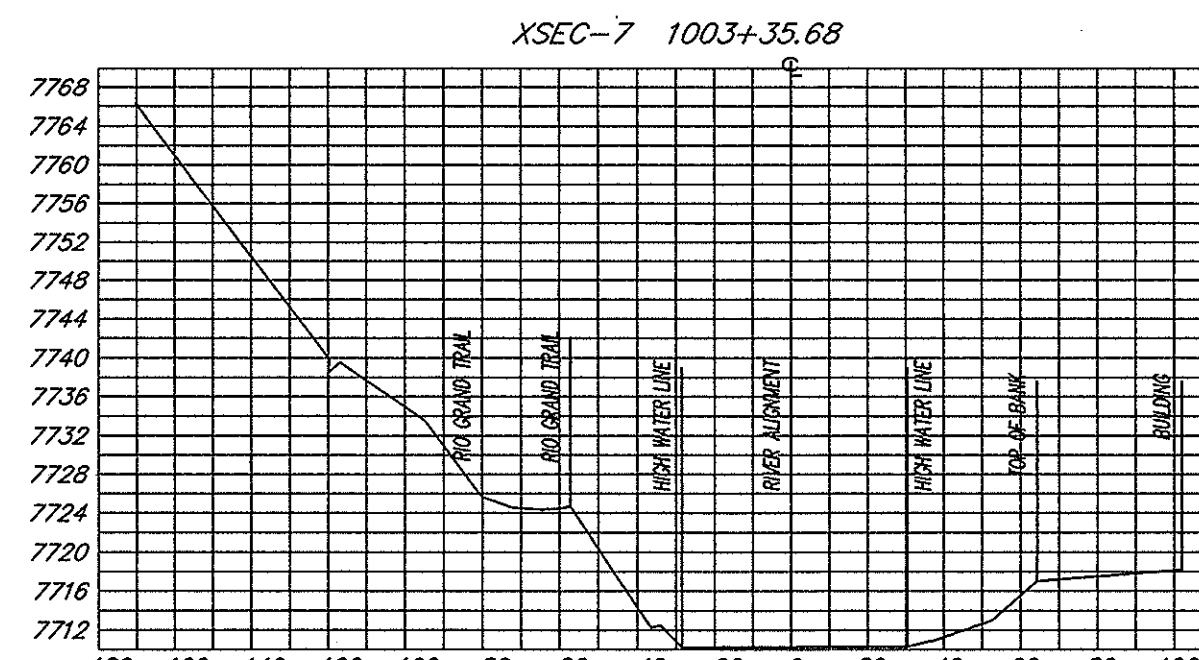
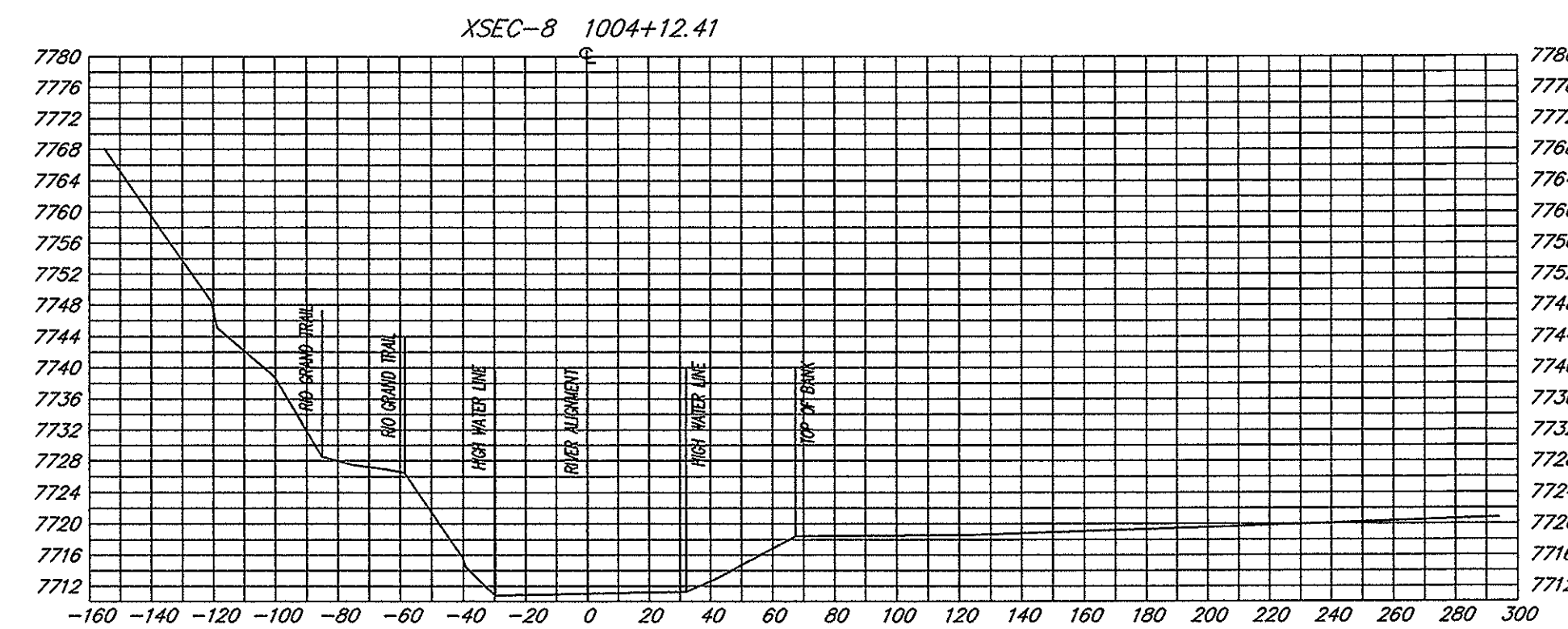
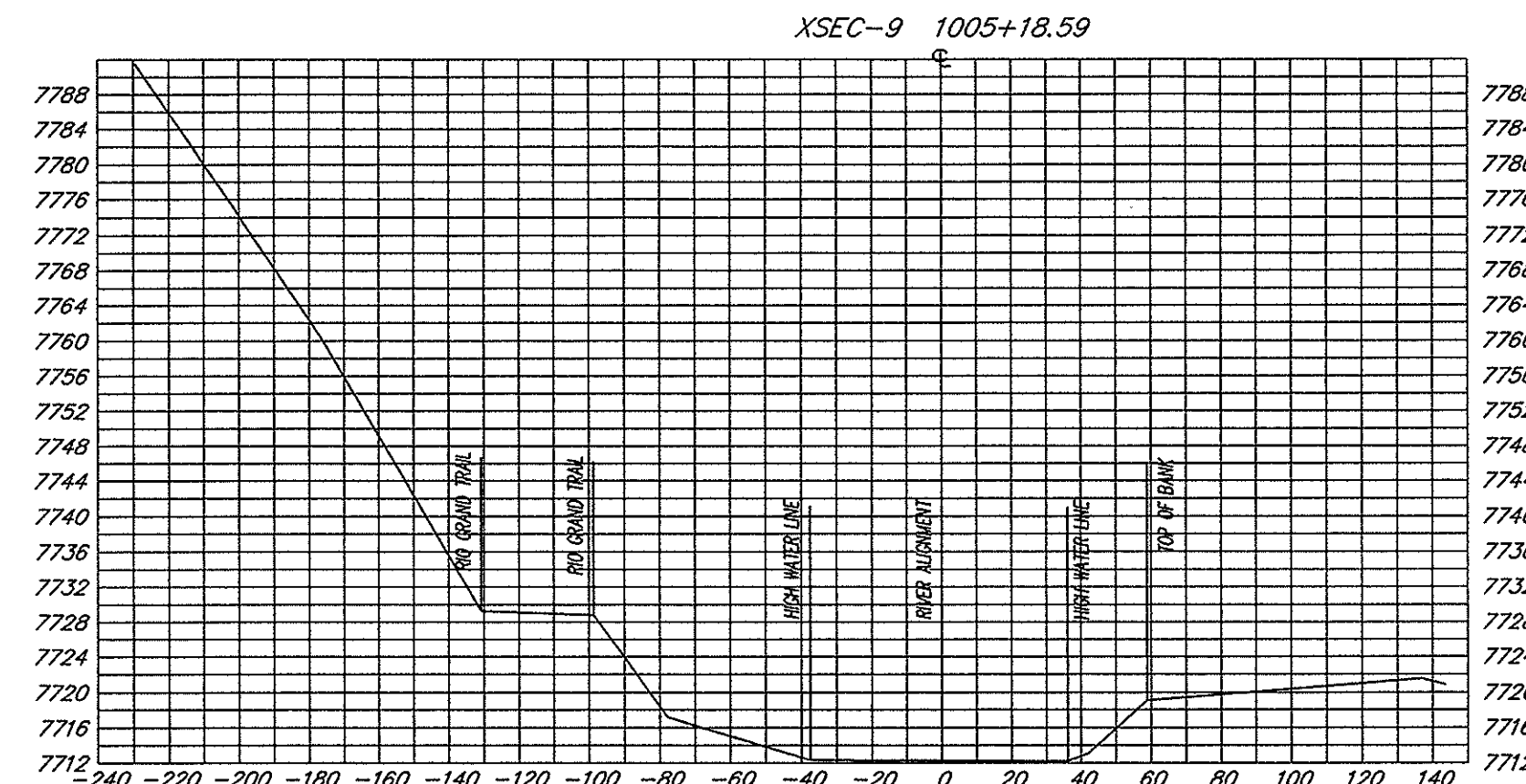
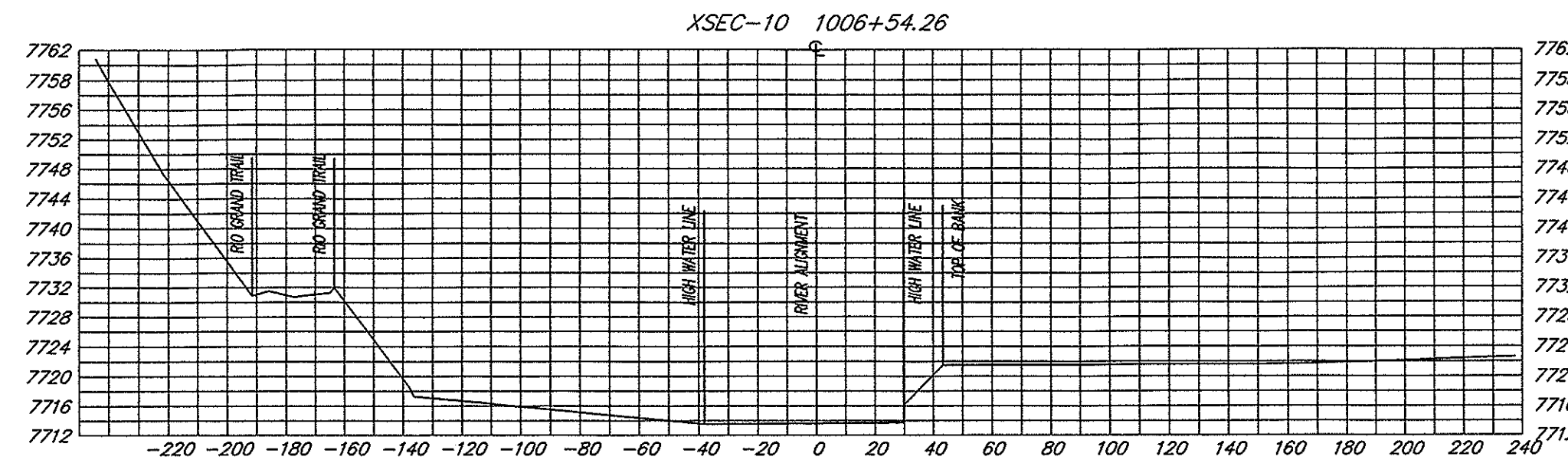
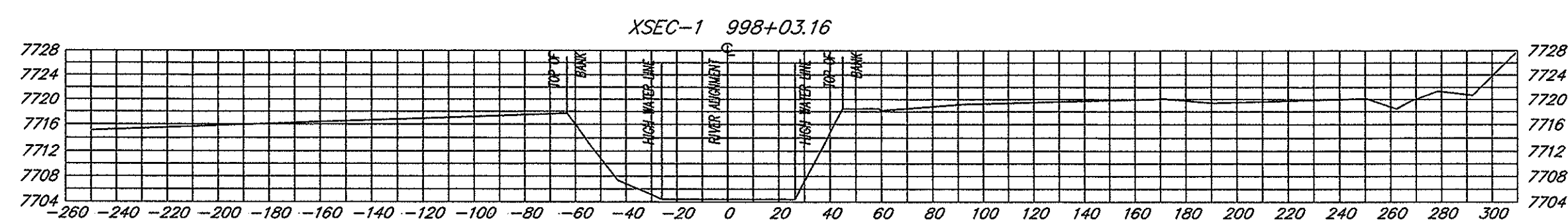
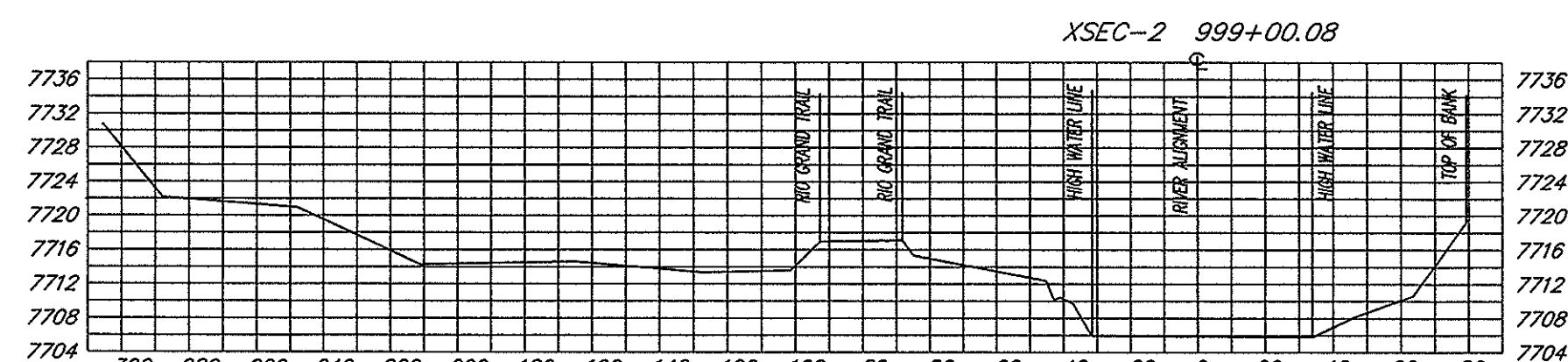
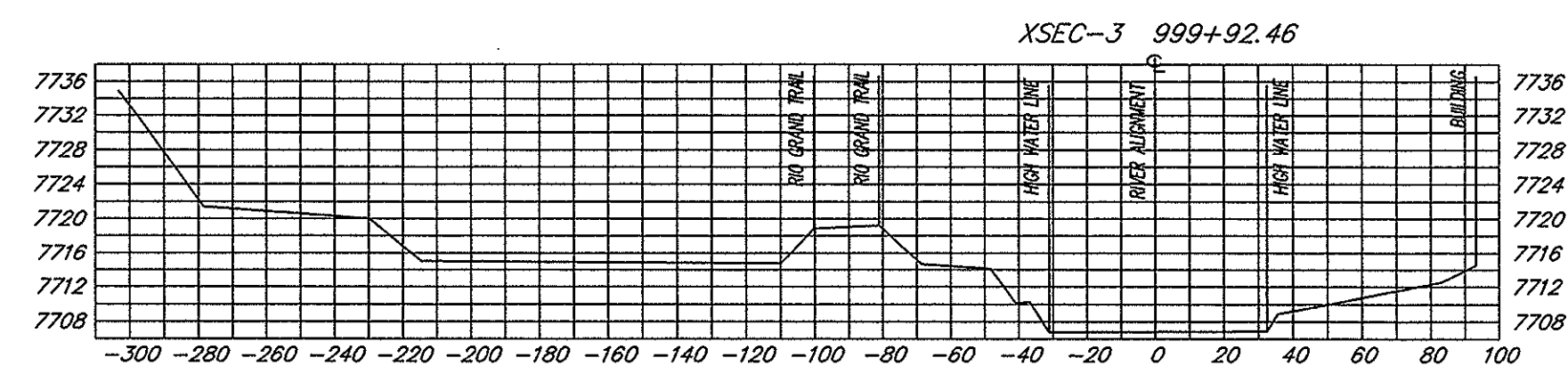
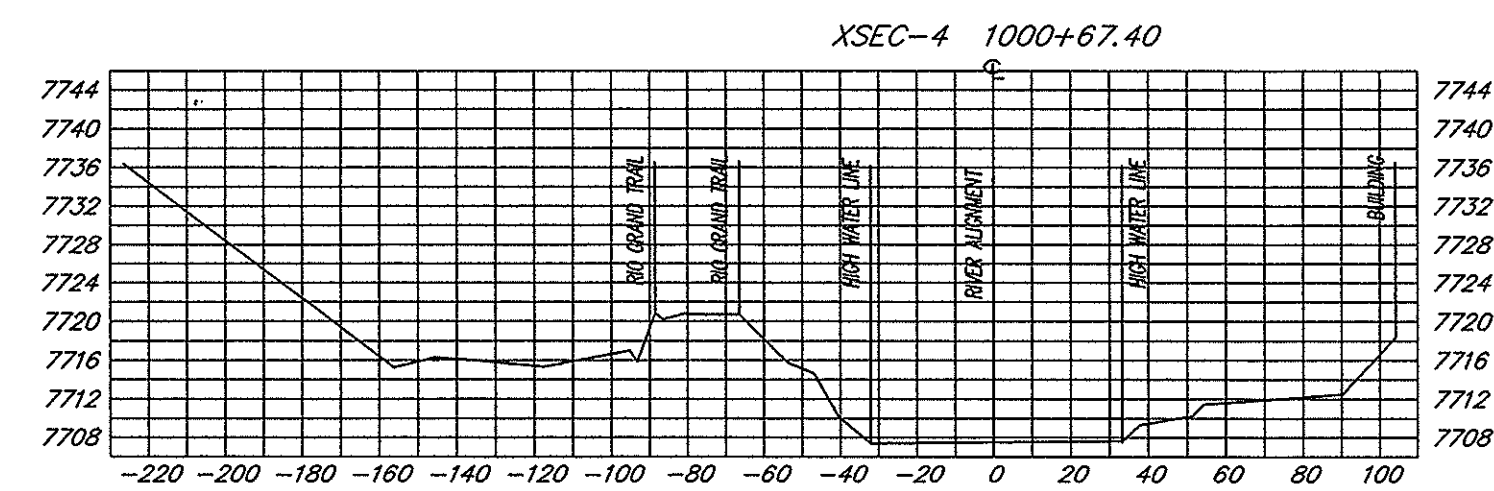
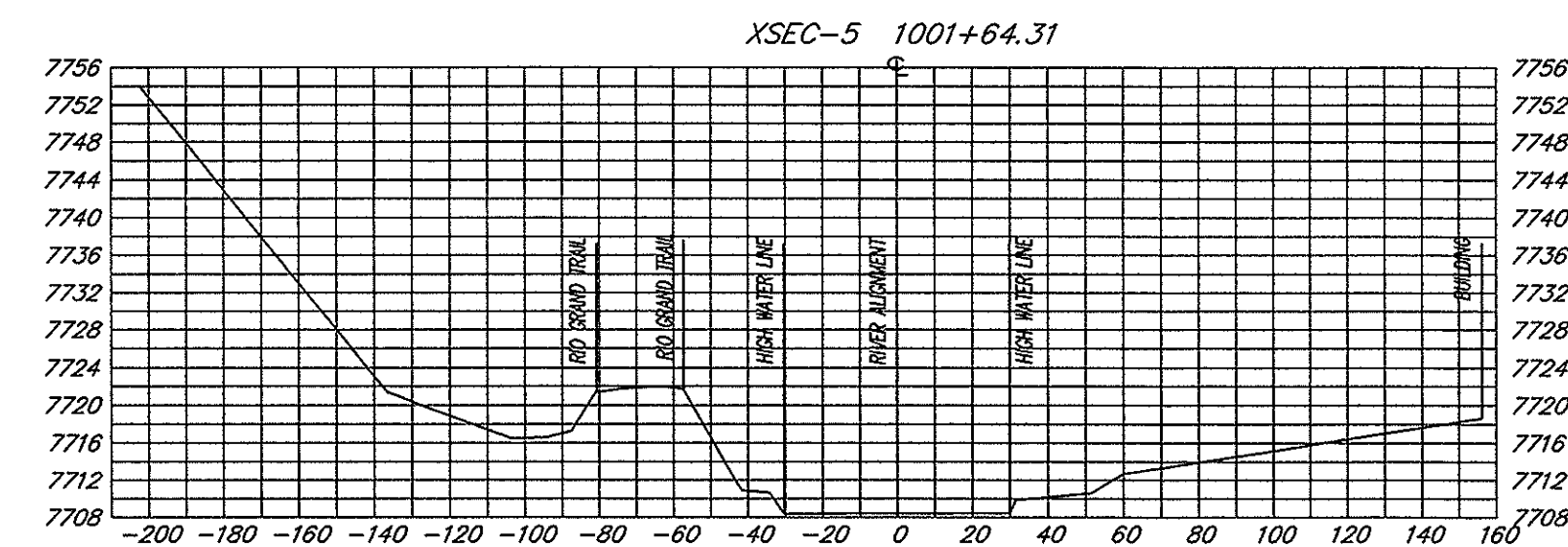
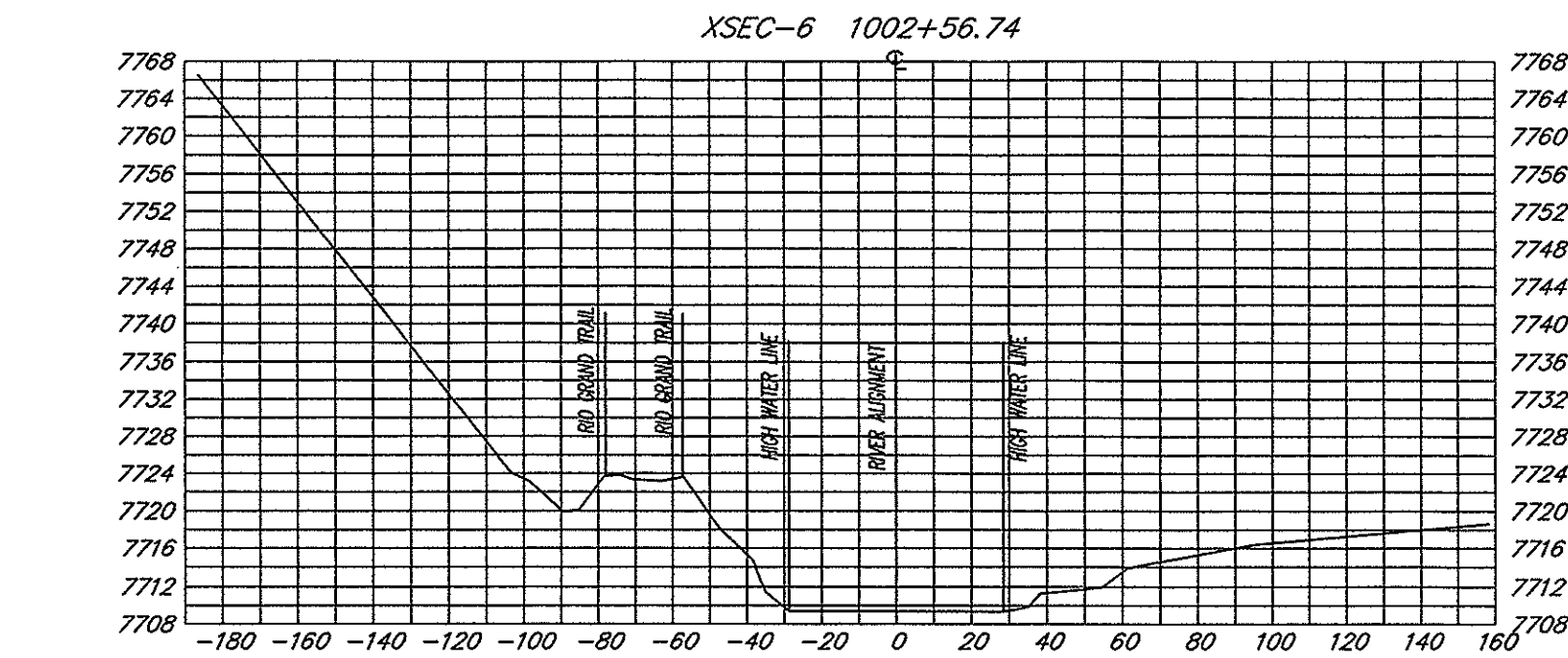


ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 7 OF 18

PLANNING REVIEW MAP OF:



SOPRIS ENGINEERING - LLC

CIVIL CONSULTANTS
502 MAIN STREET, SUITE A3
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(970) 704-0311

SCALES

HORIZONTAL 1"=50'
VERTICAL 1"=20'

SURVEY NOTES:

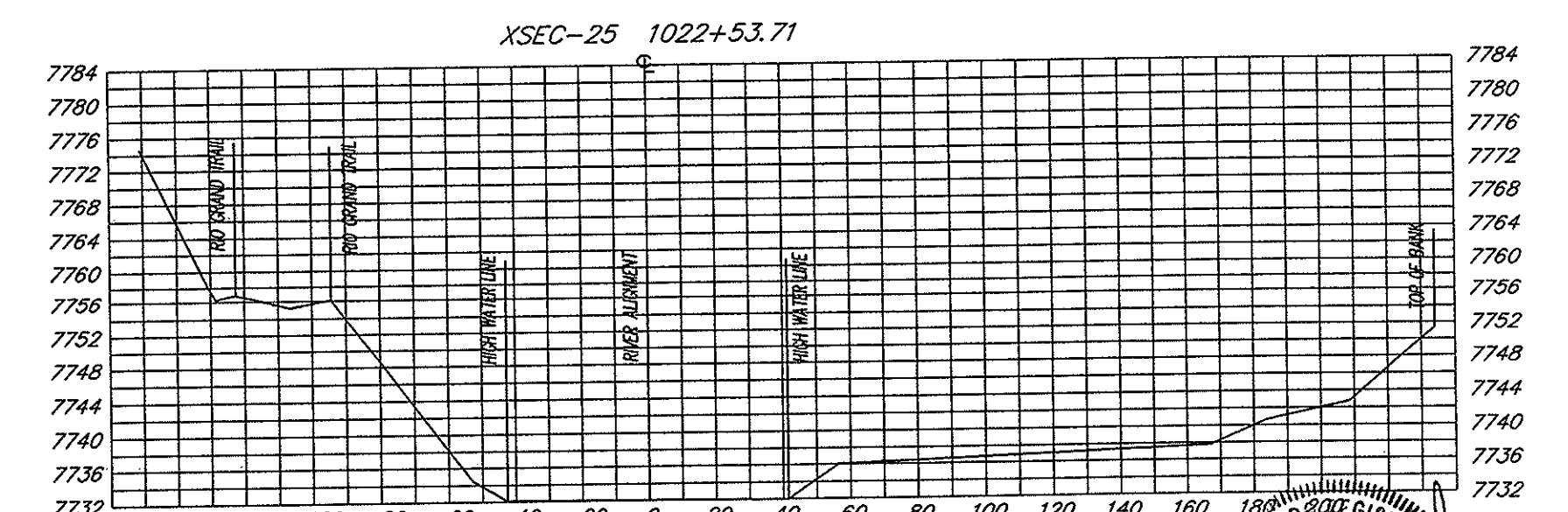
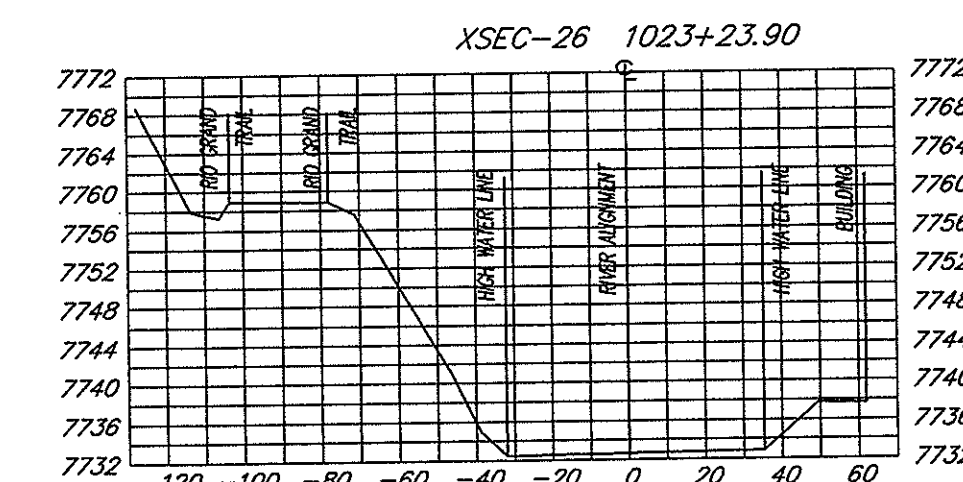
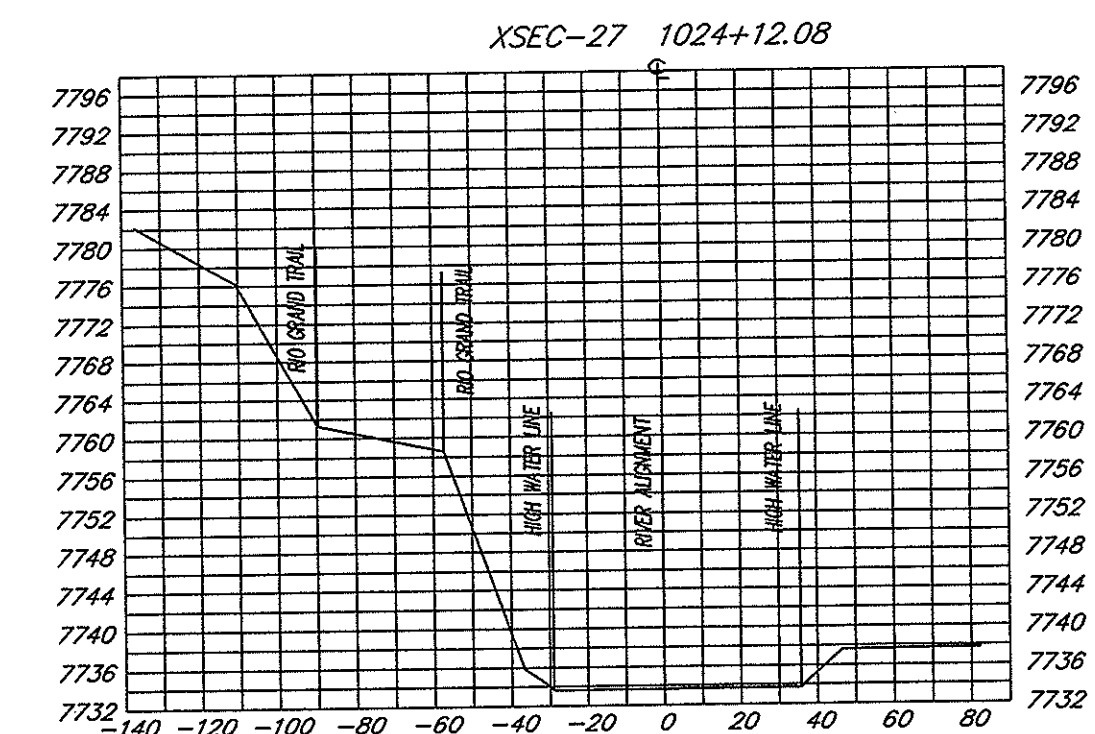
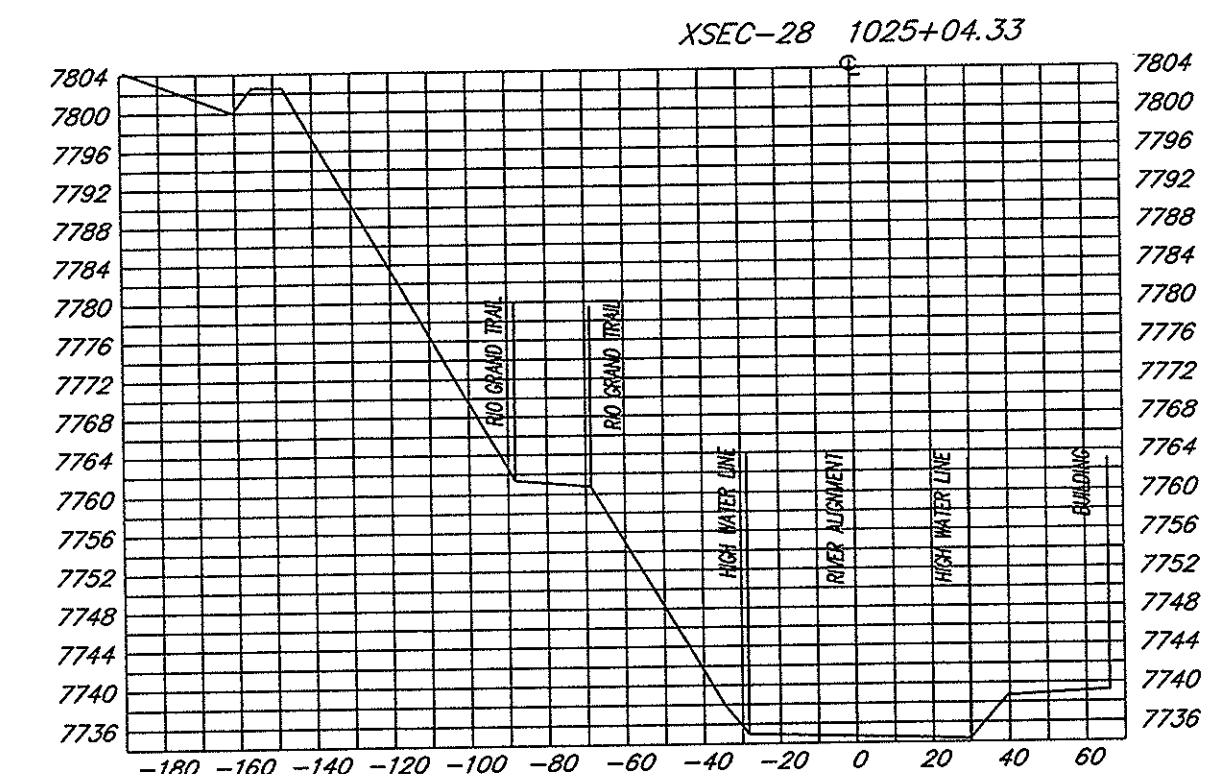
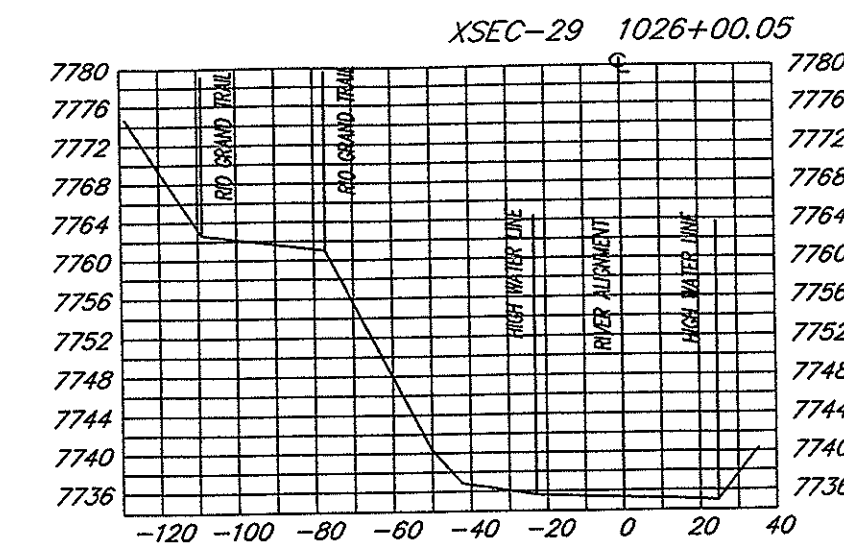
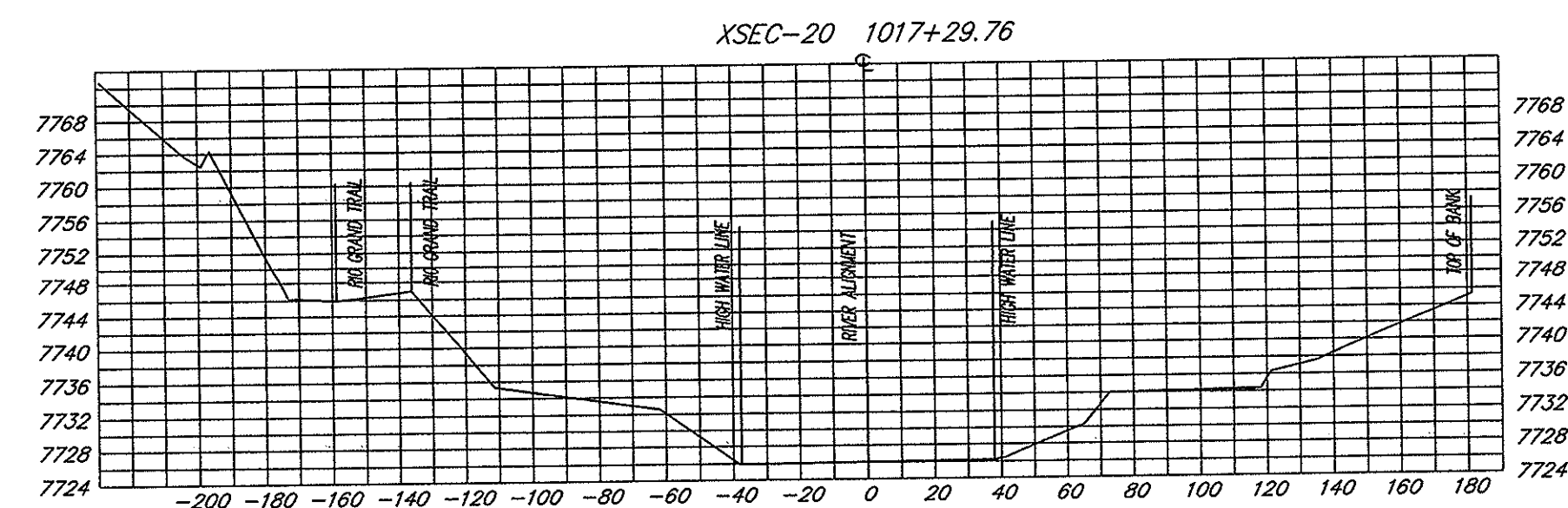
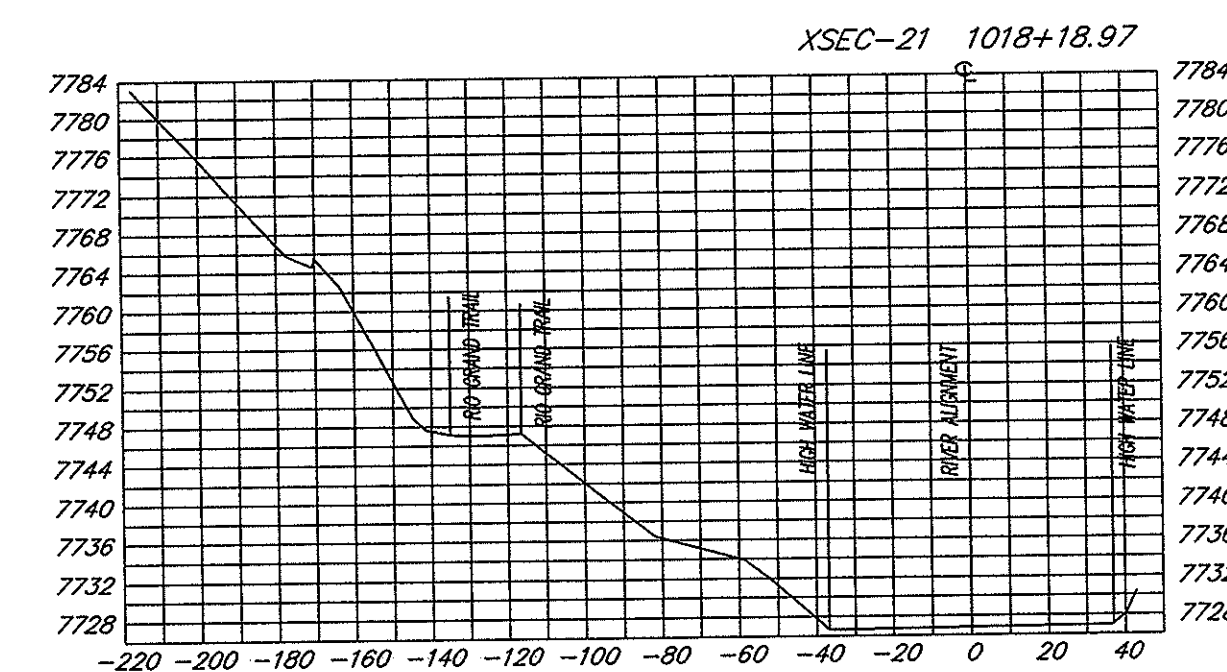
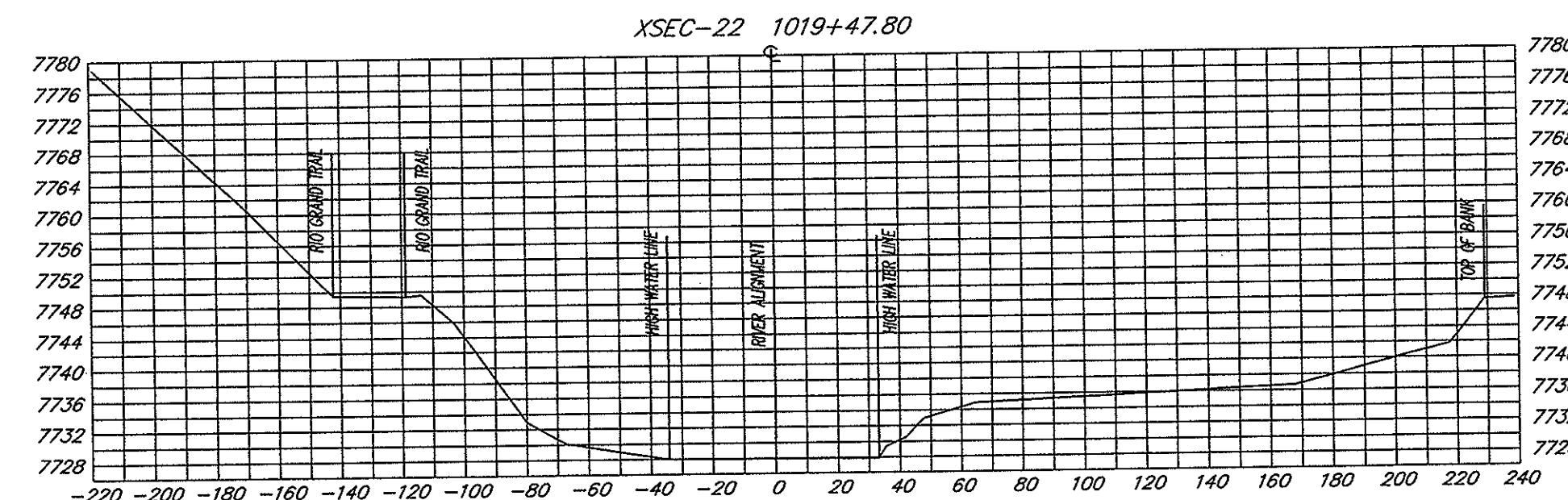
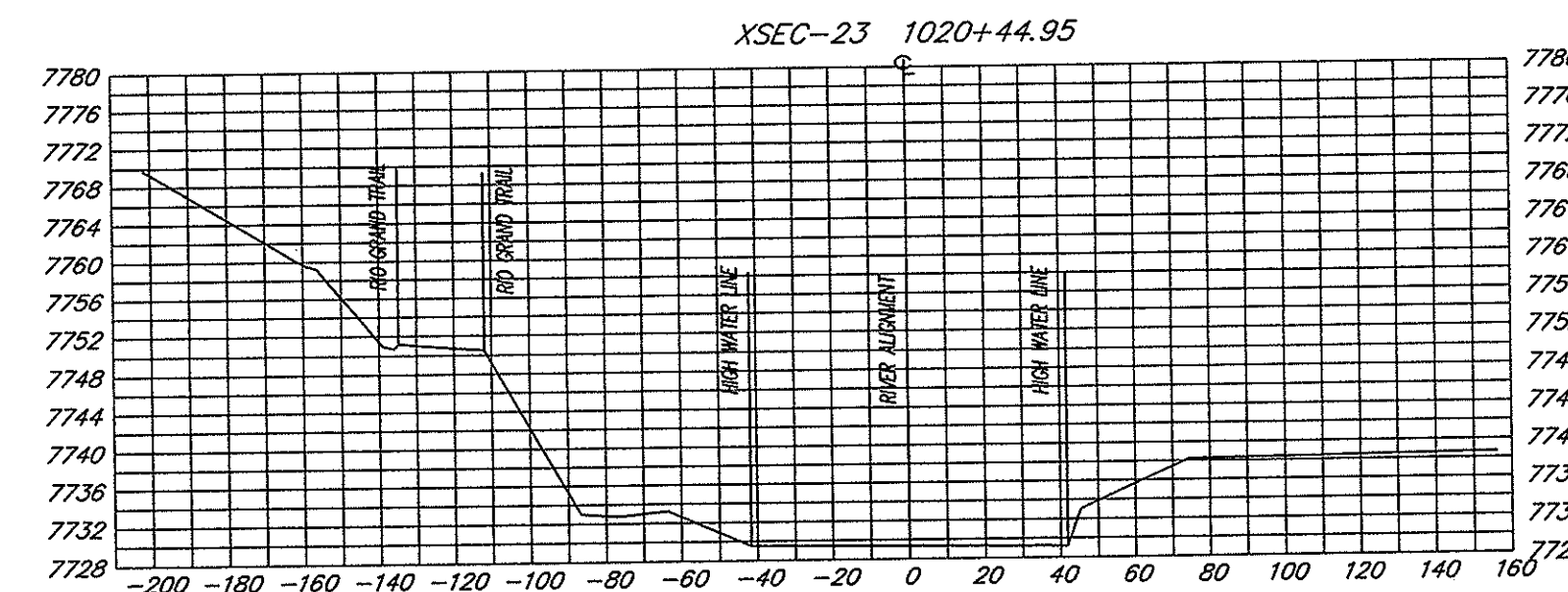
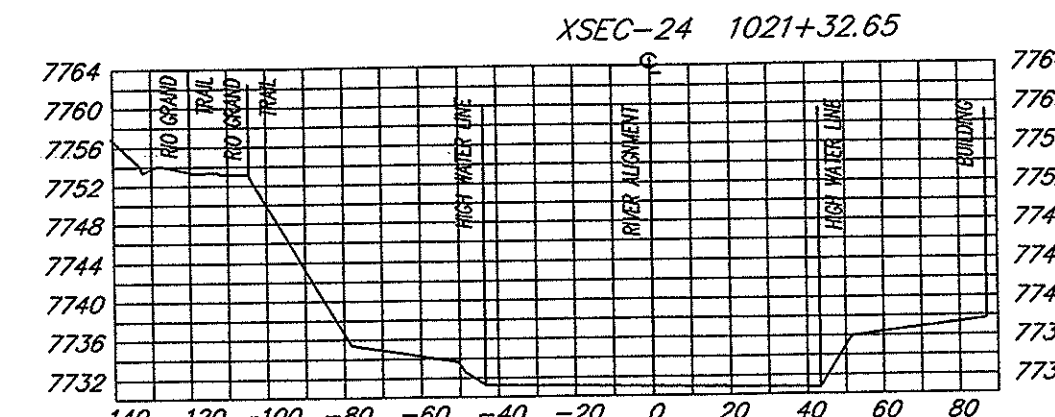
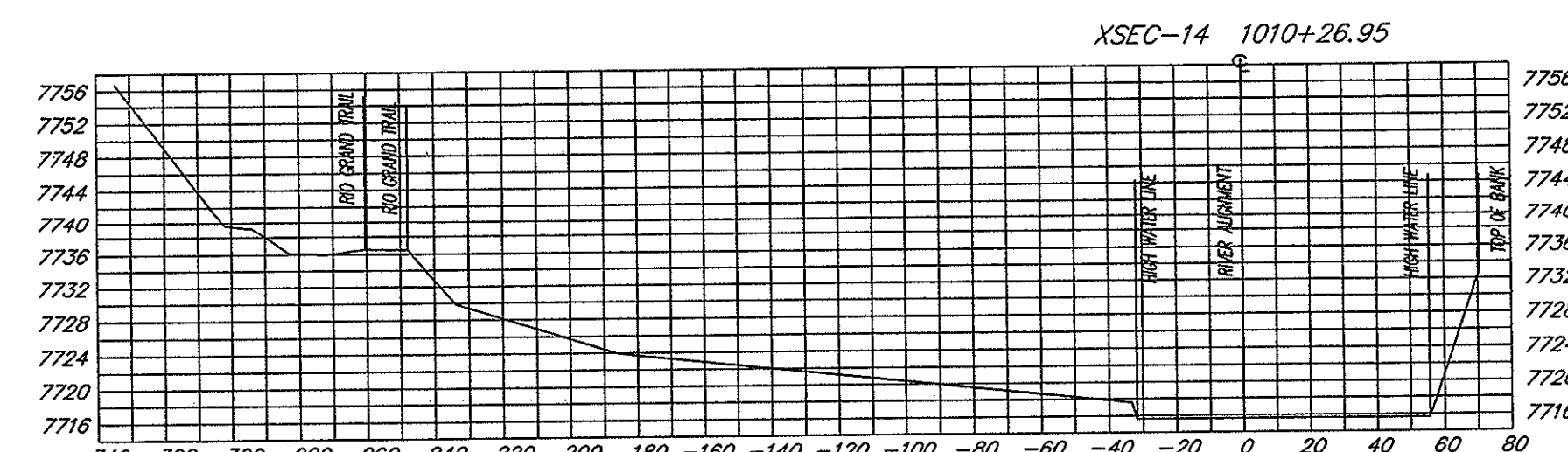
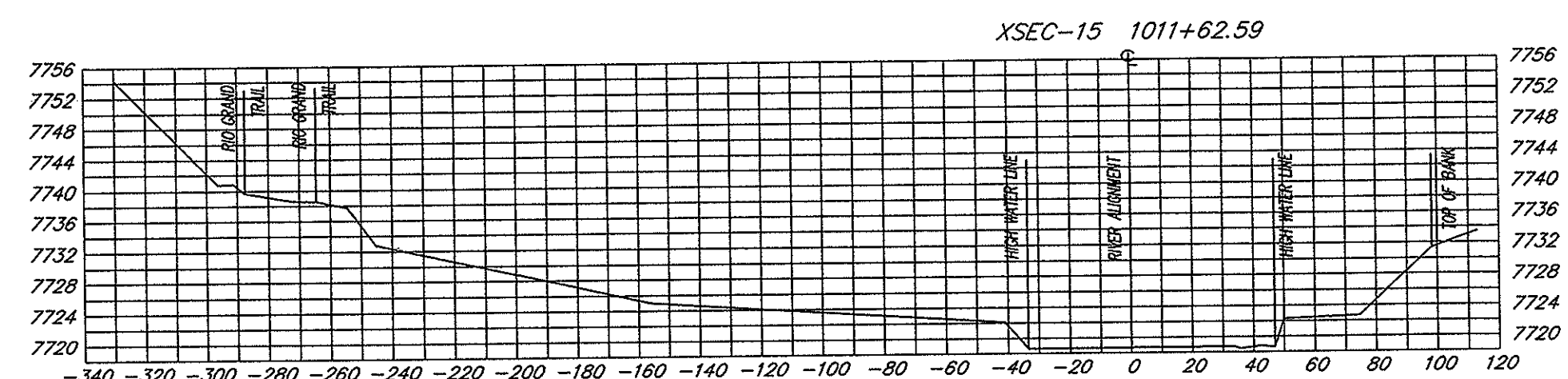
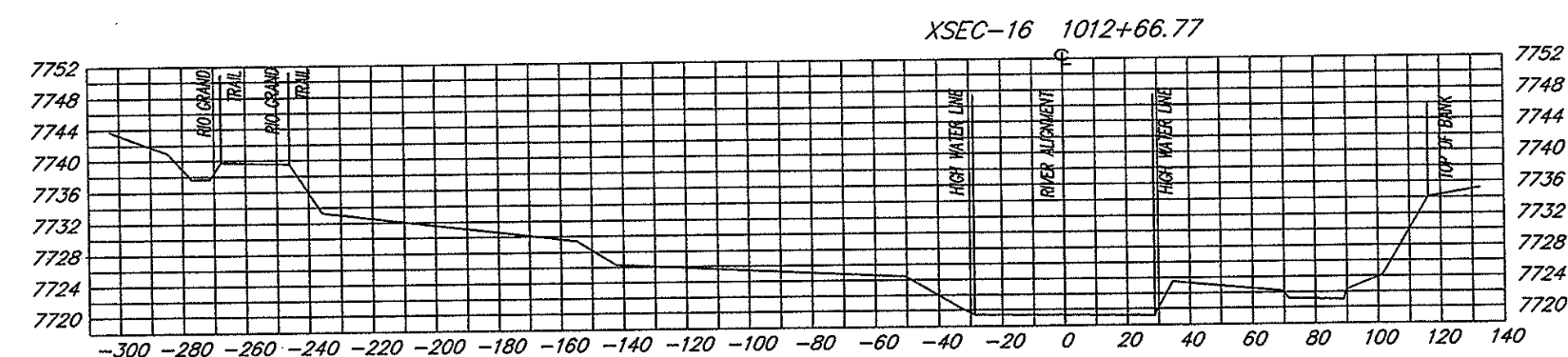
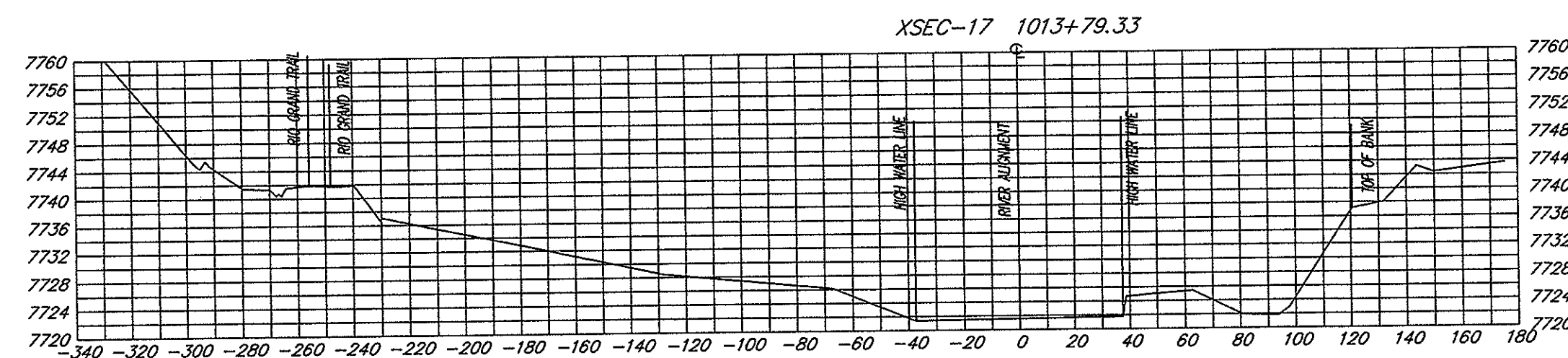
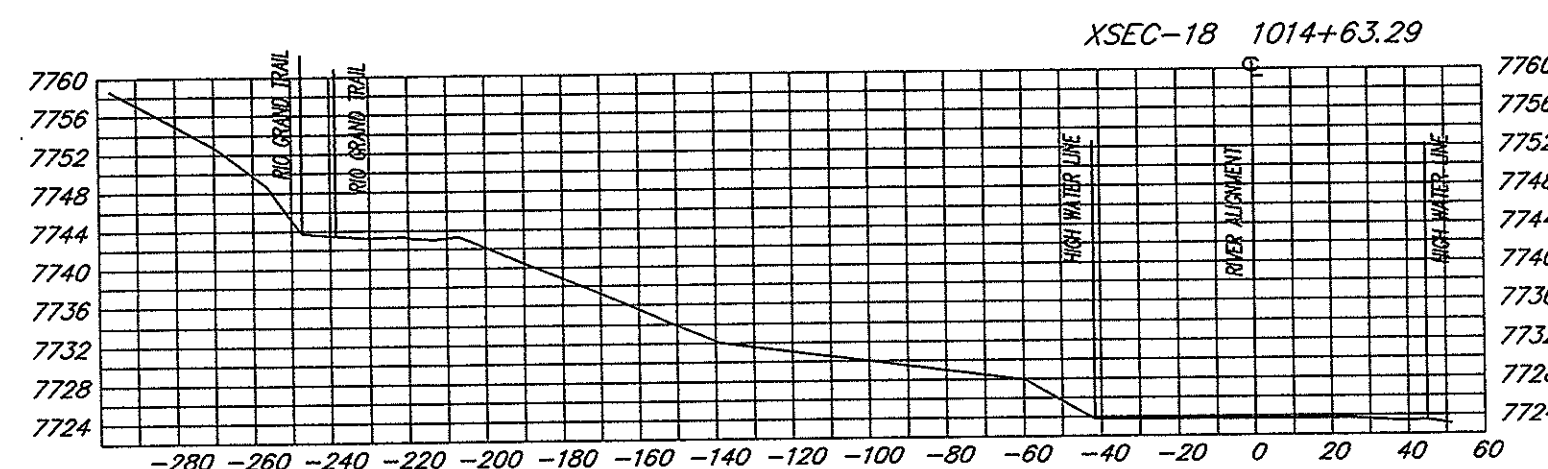
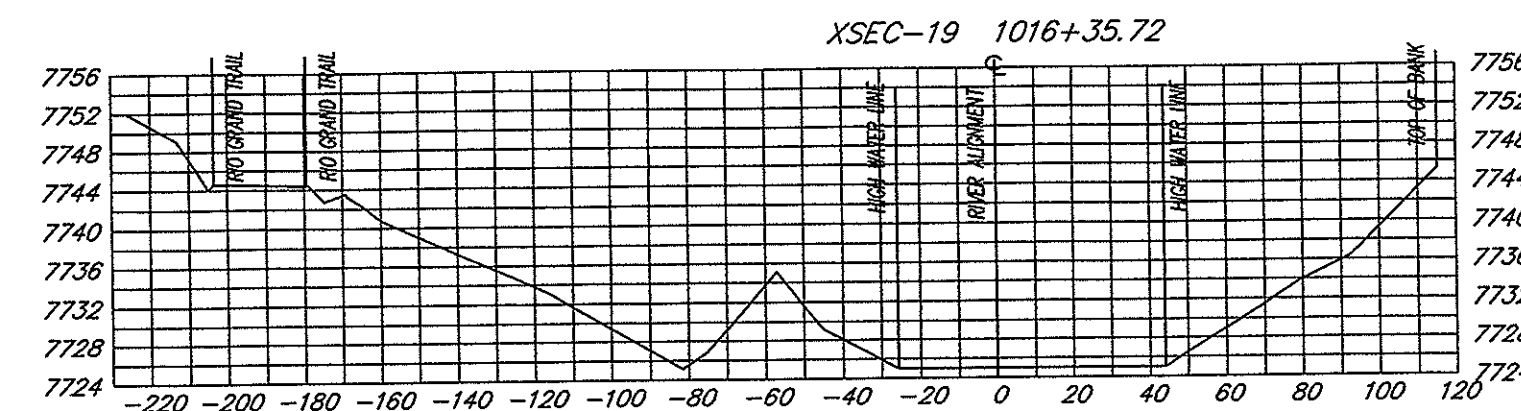
1. TOP OF BANK DOES NOT CONSTITUTE A SLOPE FAILURE LINE.
2. ROARING FORK RIVER STREAM MARGIN REVIEW MAP TO BE USED FOR PLANNING ONLY.



ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 8 OF 18



SOPRIS ENGINEERING - LLC

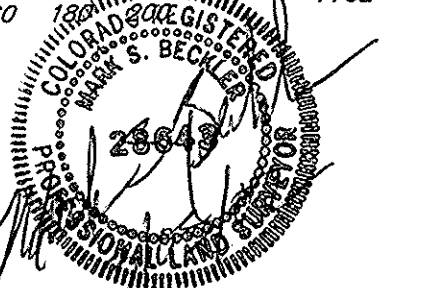
CIVIL CONSULTANTS
502 MAIN STREET, SUITE A3
CARBONDALE, COLORADO 81623
(970) 704-0311

SCALES

HORIZONTAL 1"=50'
VERTICAL 1"=20'

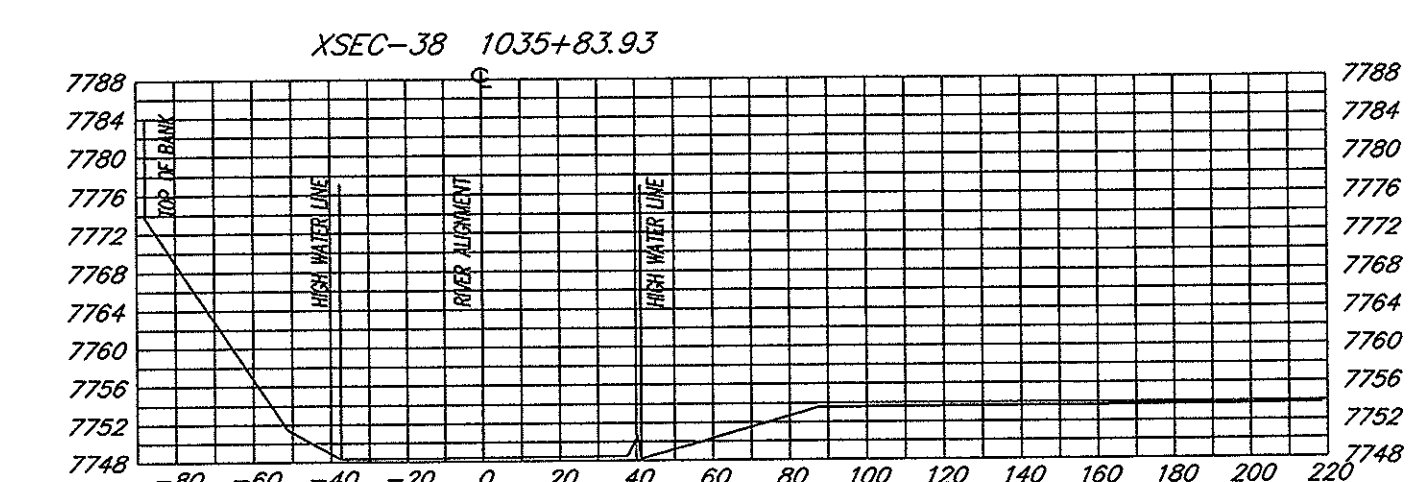
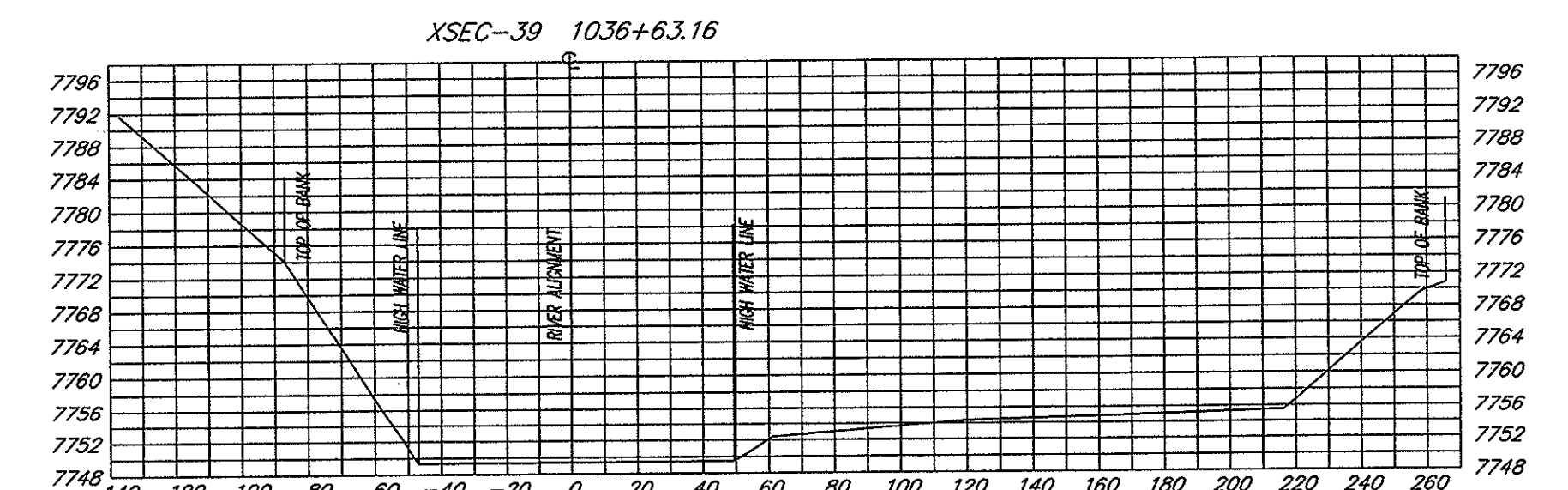
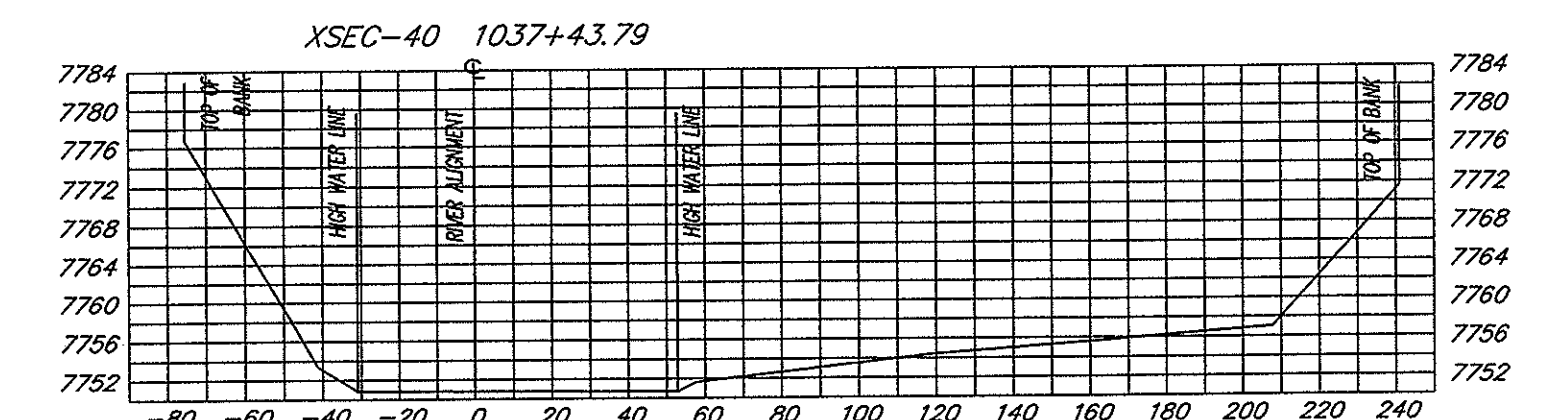
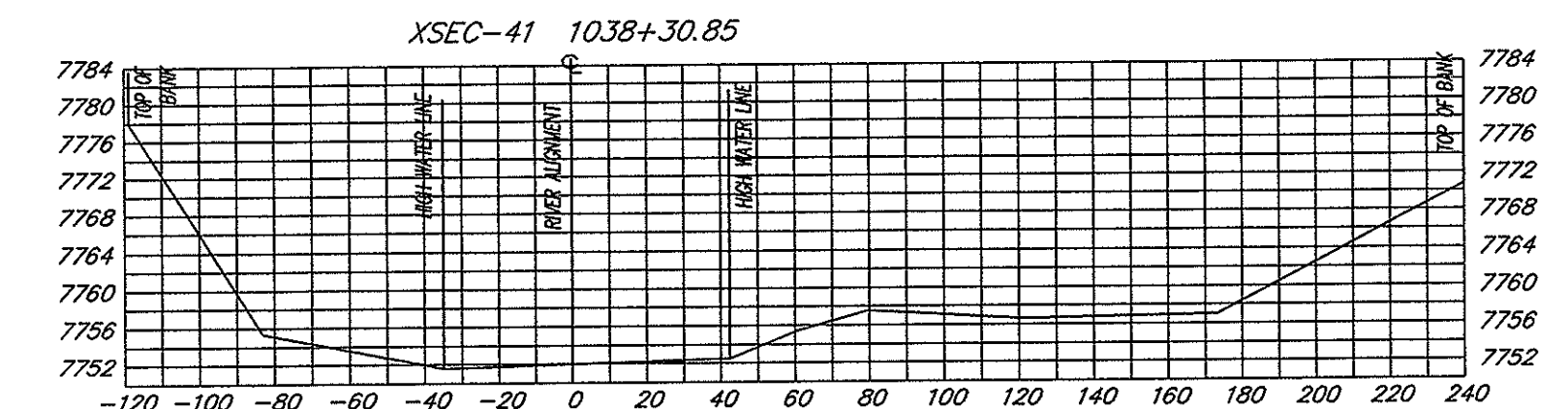
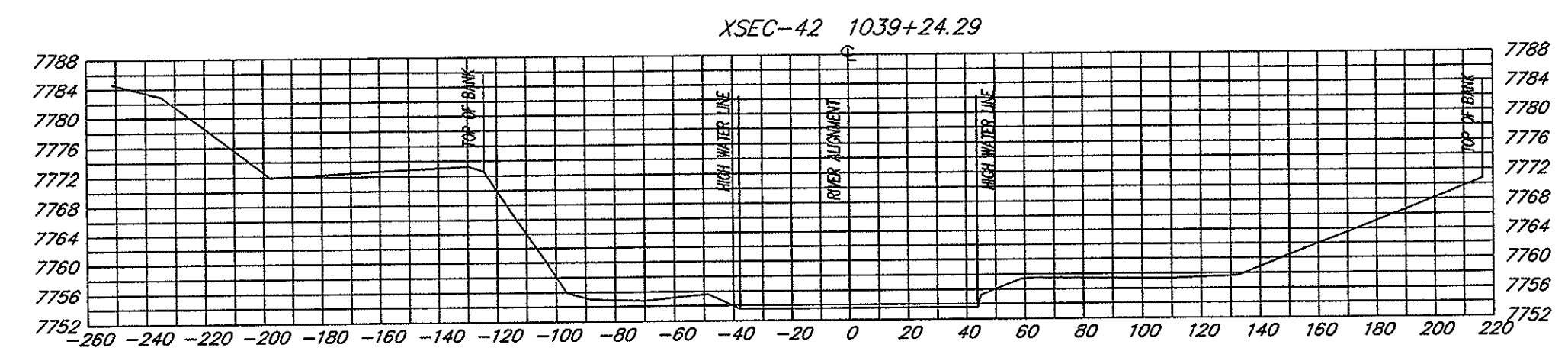
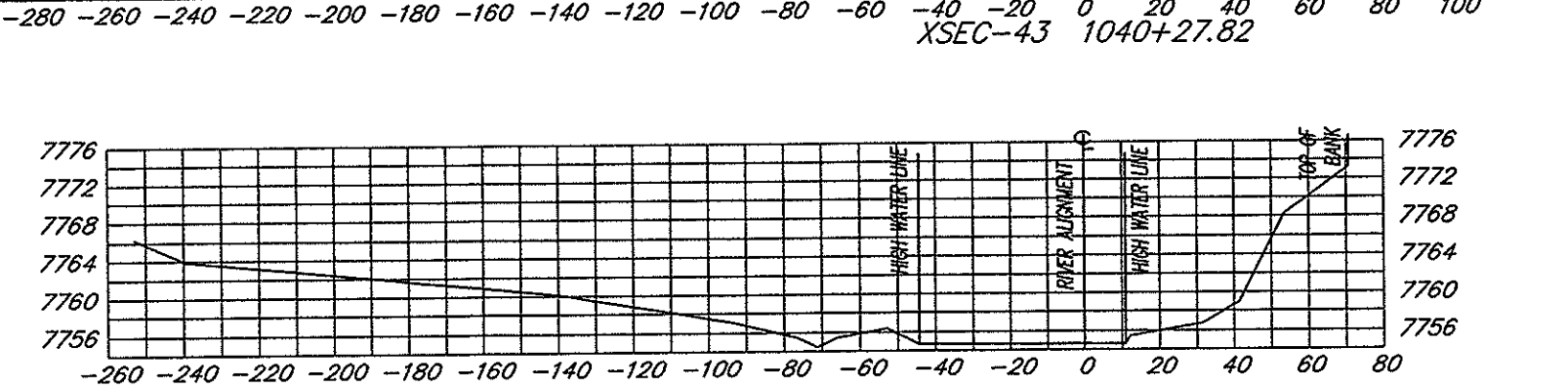
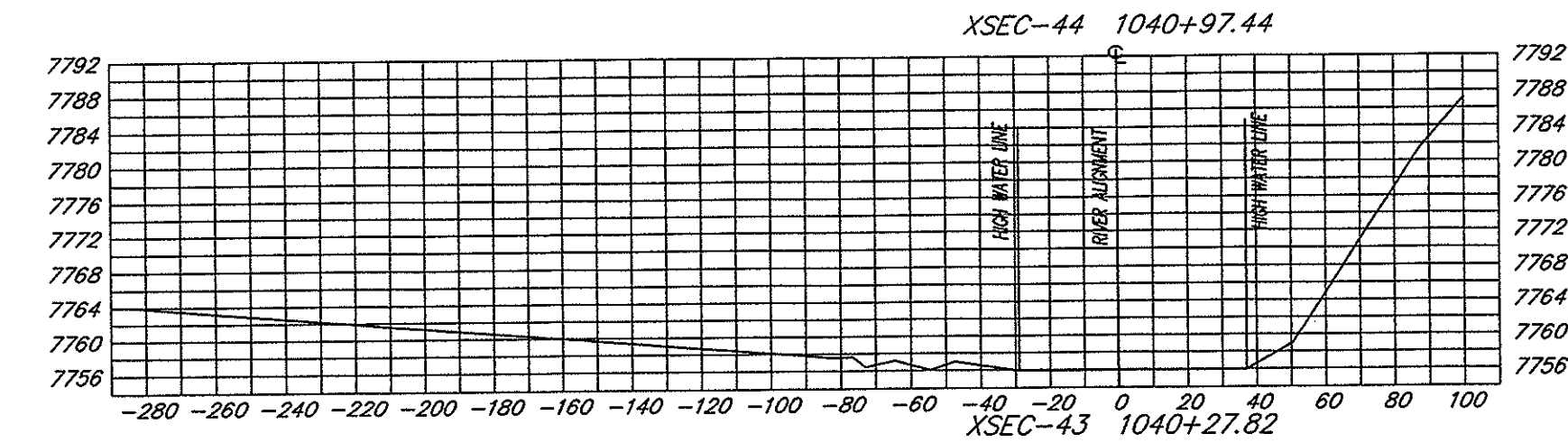
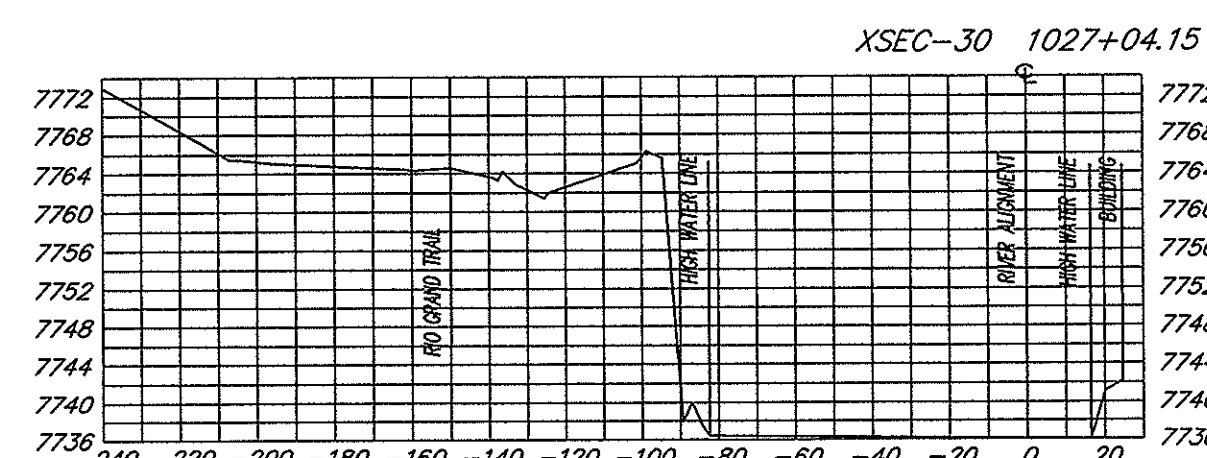
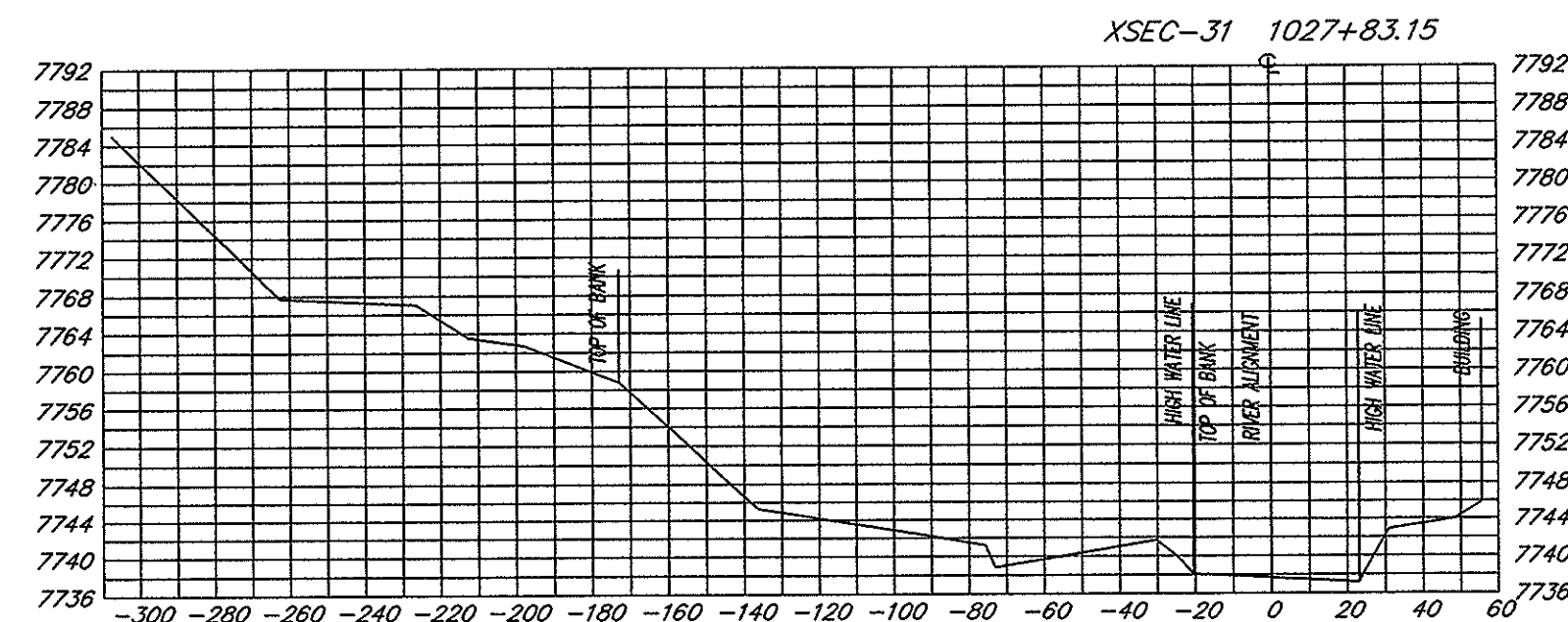
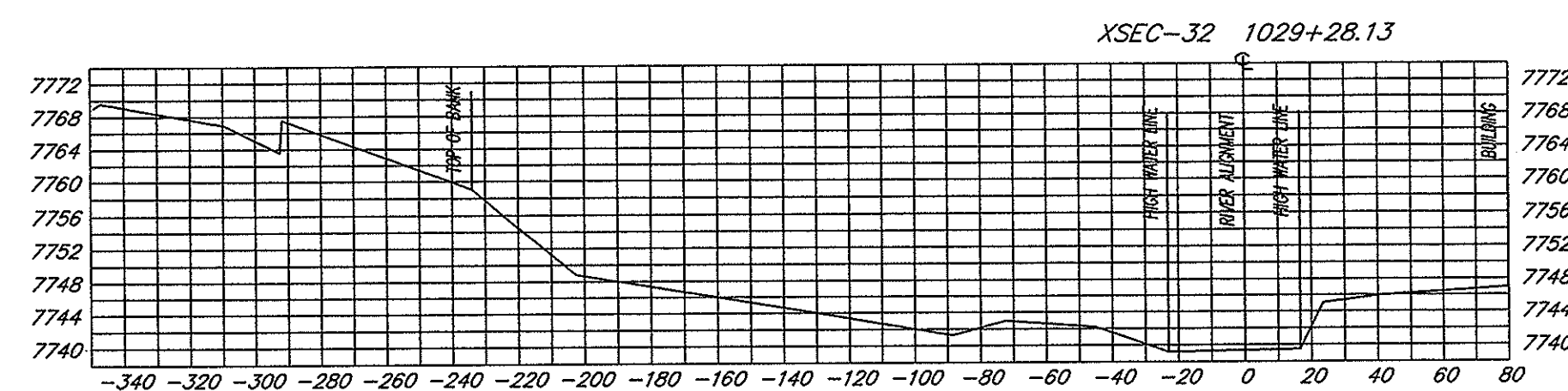
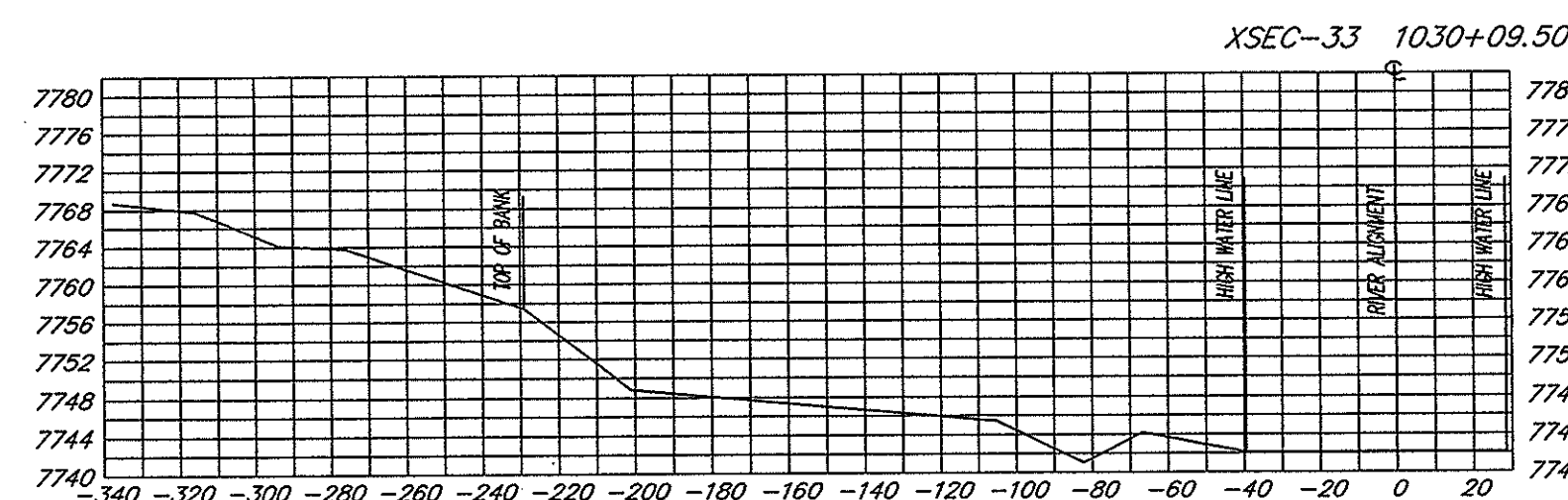
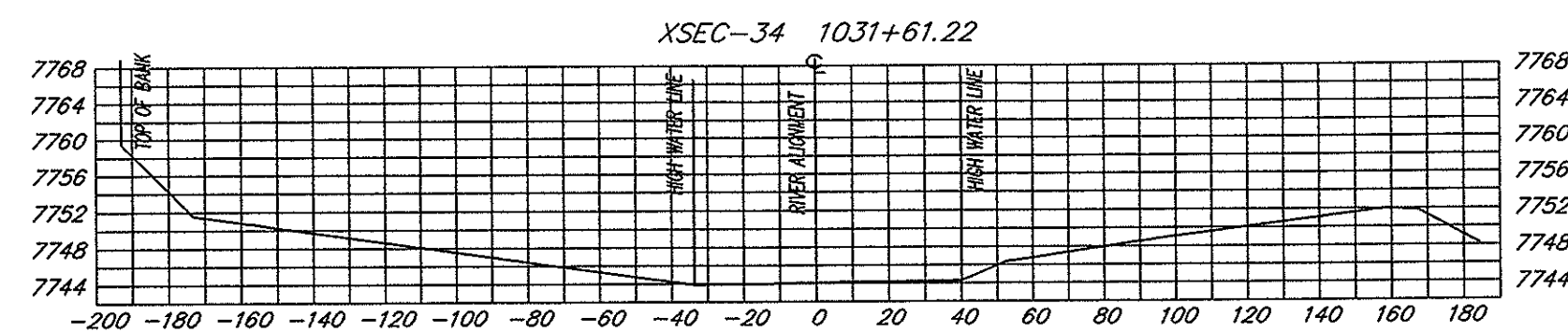
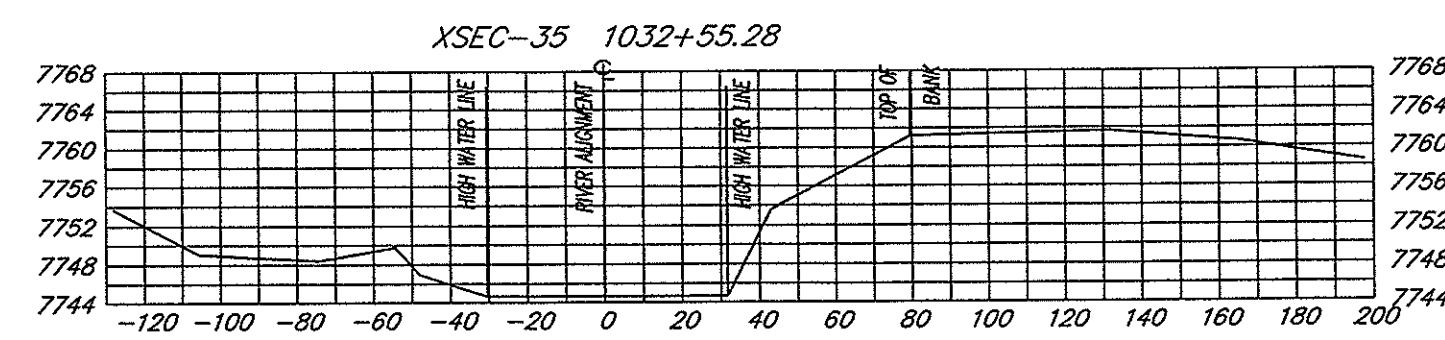
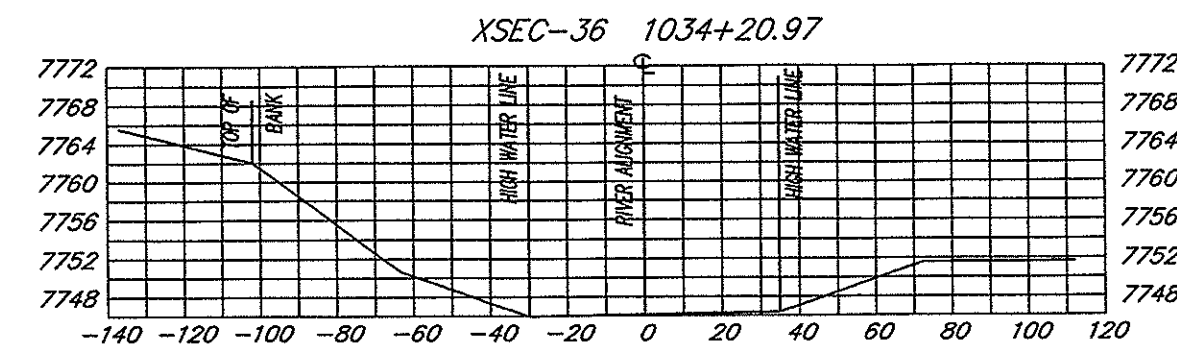
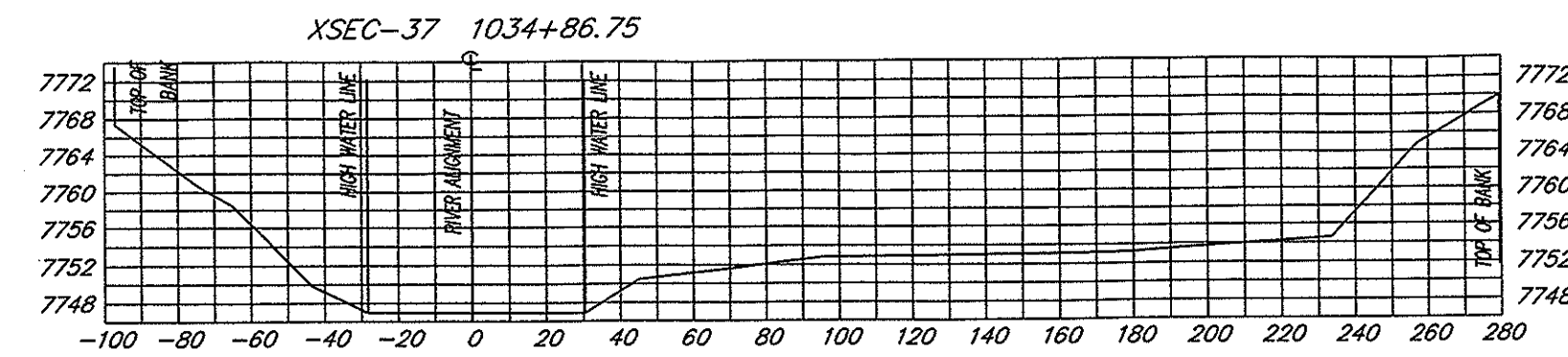
SURVEY NOTES:

1. TOP OF BANK DOES NOT CONSTITUTE A SLOPE FAILURE LINE.
2. ROARING FORK RIVER STREAM MARGIN REVIEW MAP TO BE USED FOR PLANNING ONLY.



ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

PLANNING REVIEW MAP OF:
CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO
SHEET 9 OF 18



SCALES
HORIZONTAL 1"=50'
VERTICAL 1"=20'

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CIVIL CONSULTANTS
502 MAIN STREET, SUITE A3
CARBONDALE, COLORADO 81623
(970) 704-0311

SURVEY NOTES:

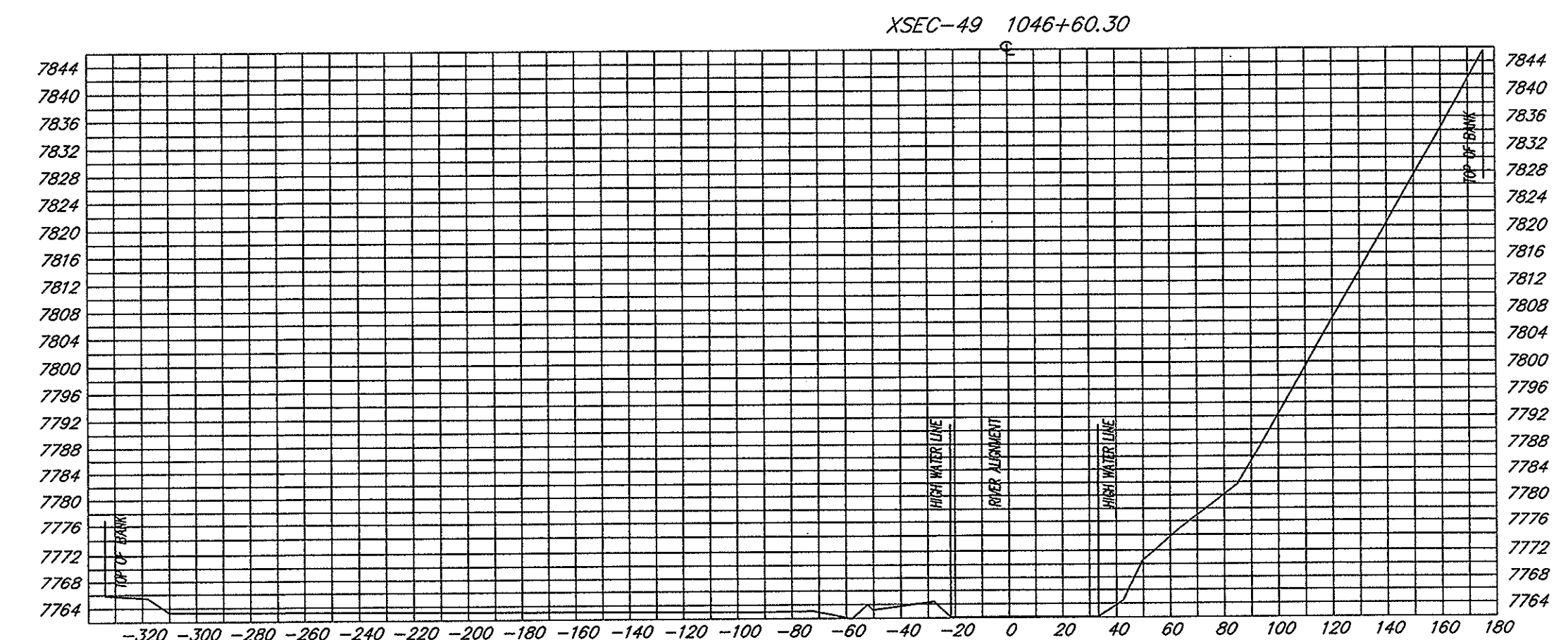
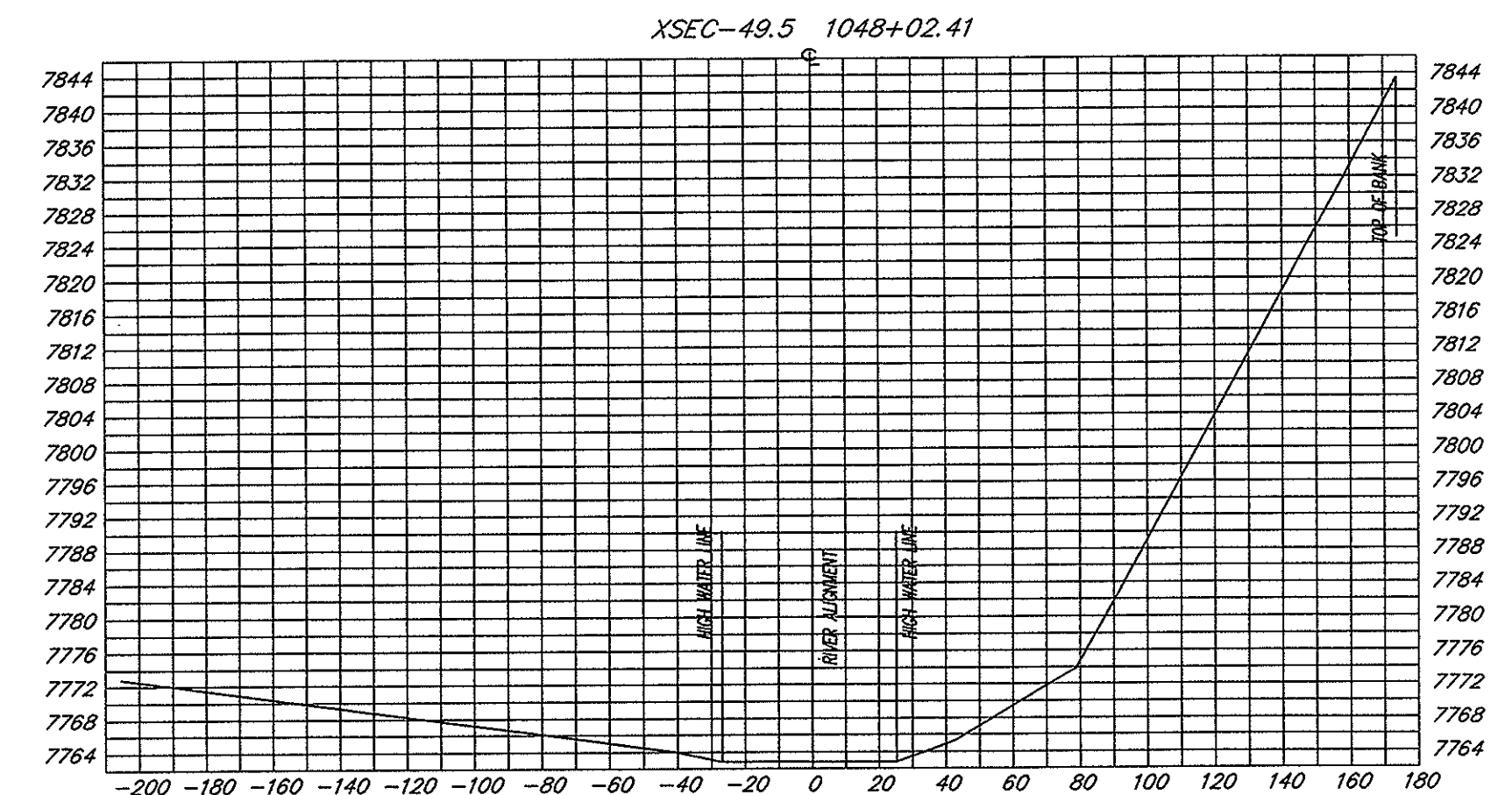
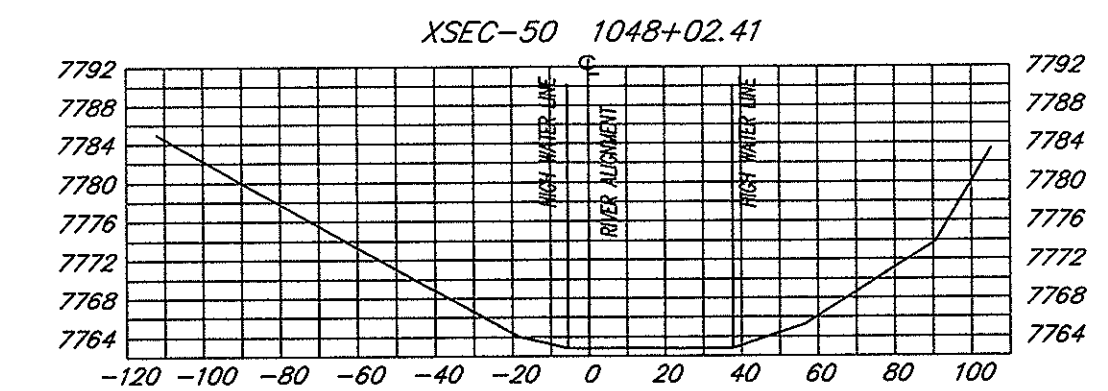
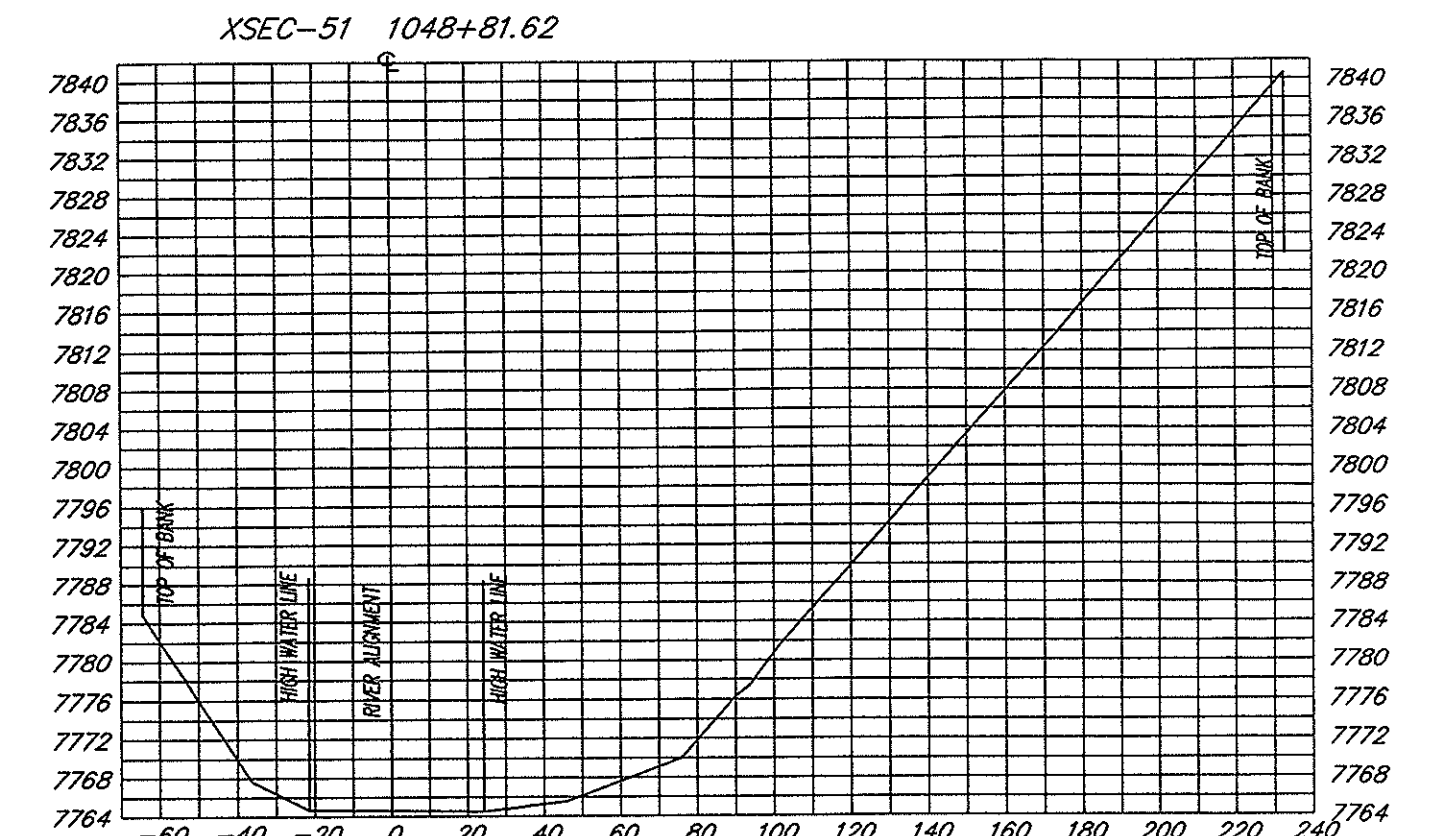
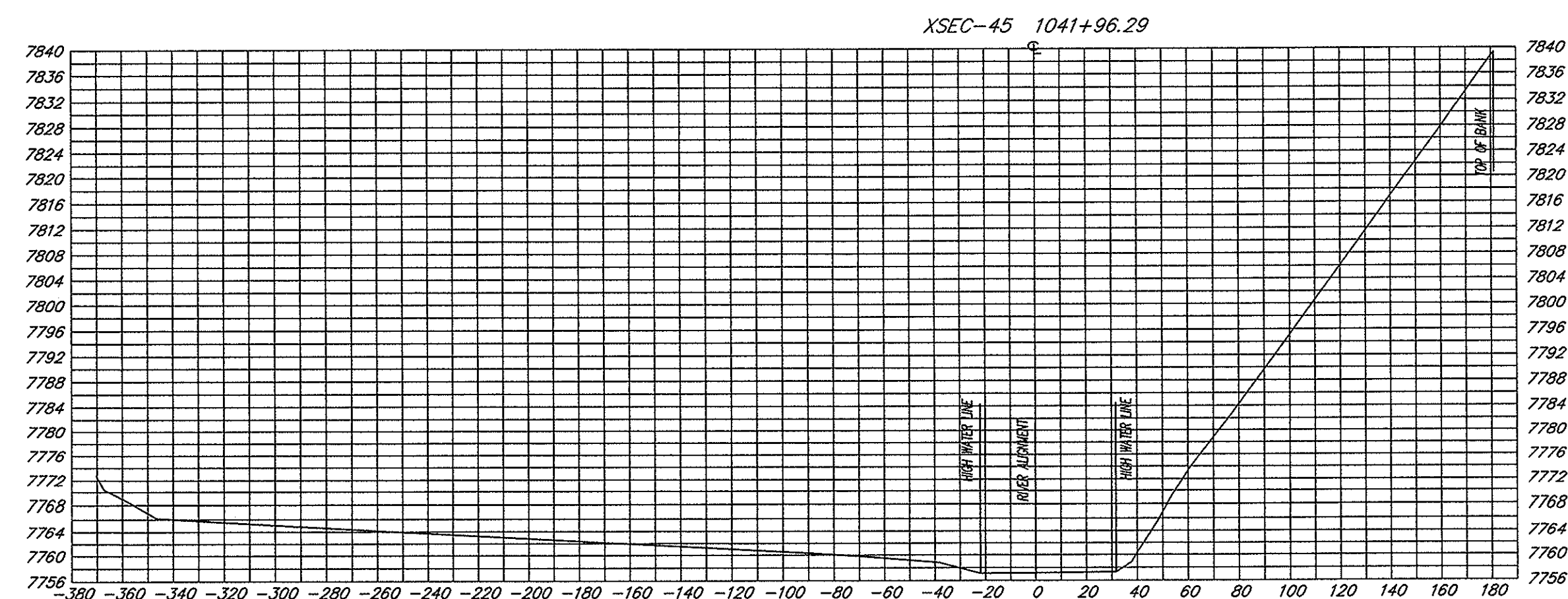
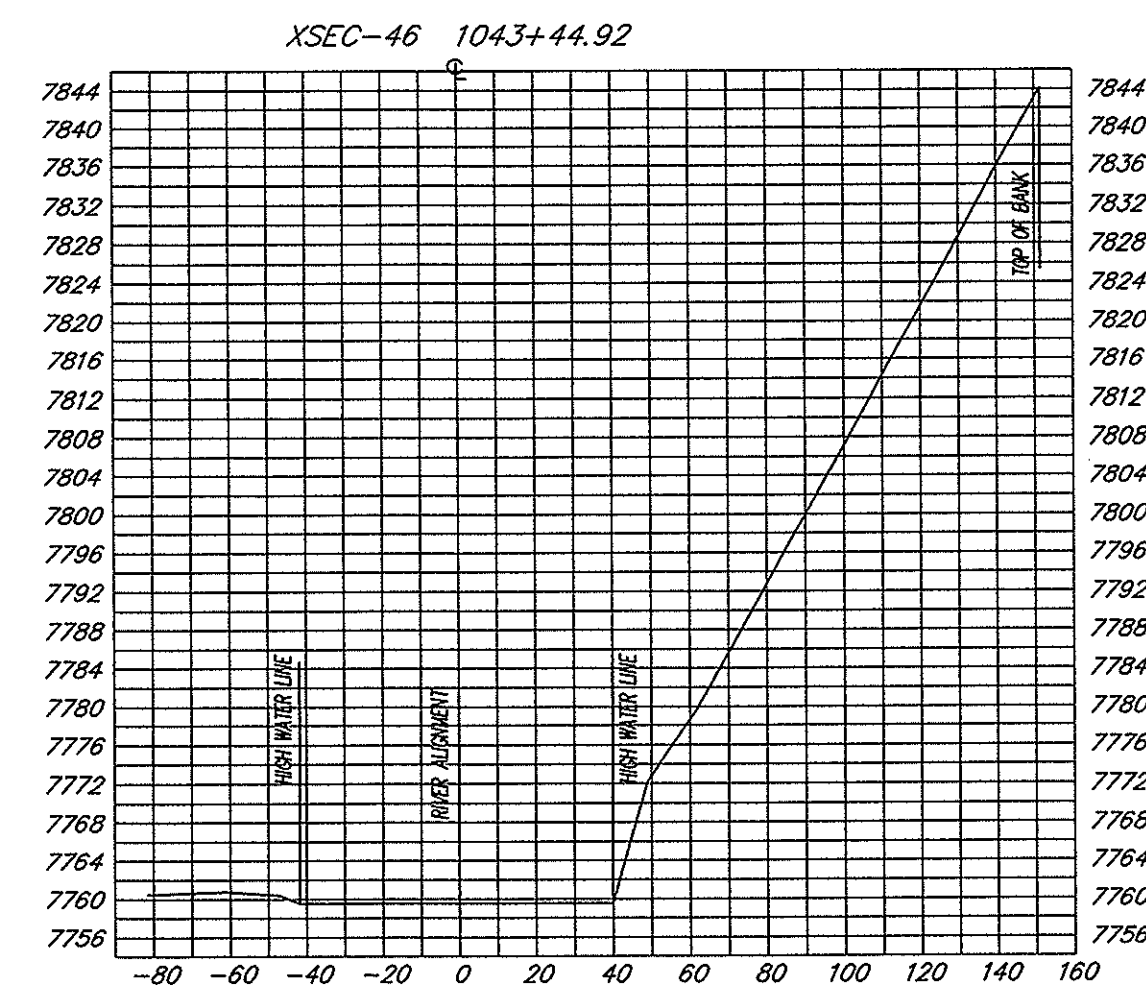
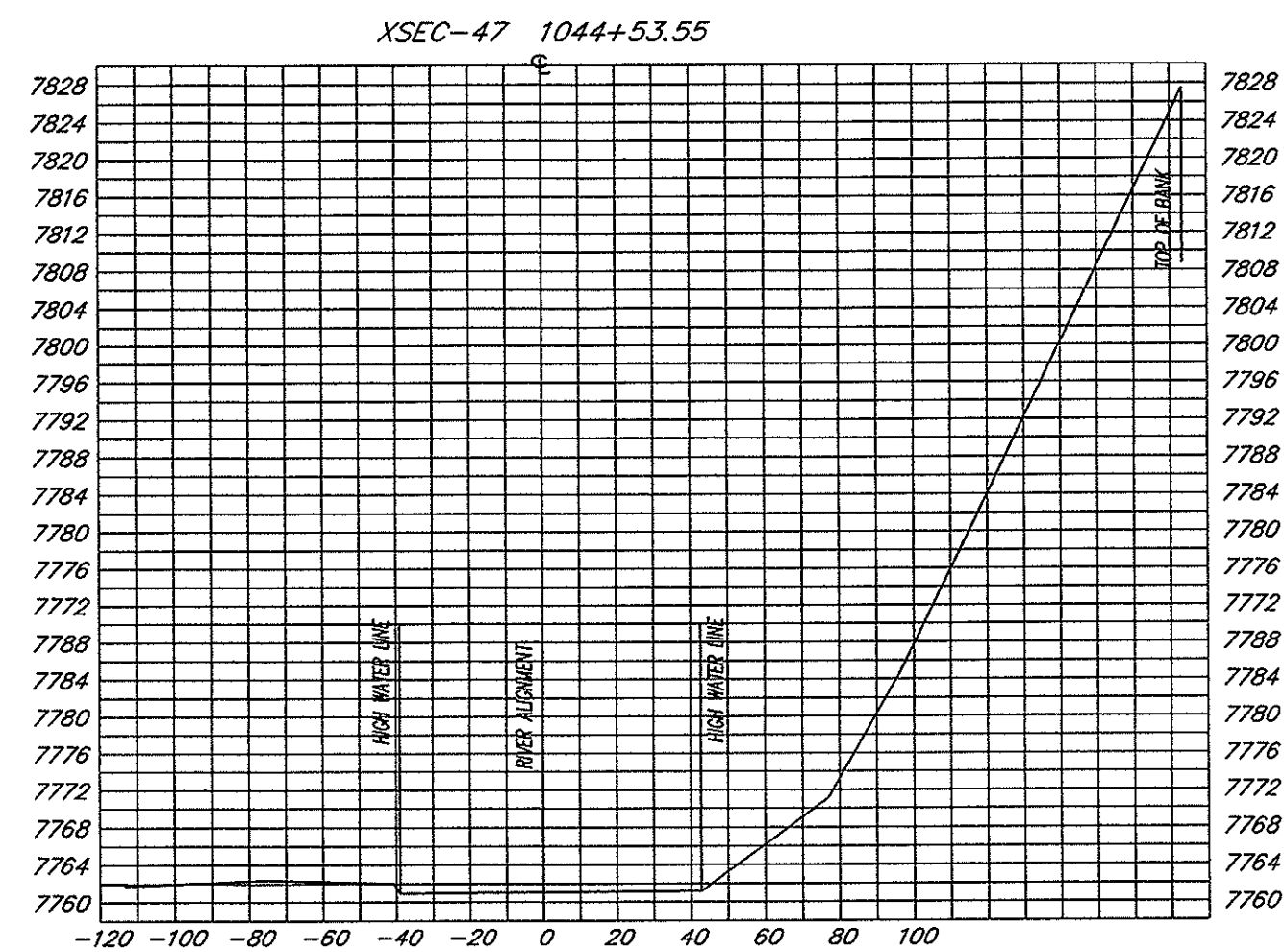
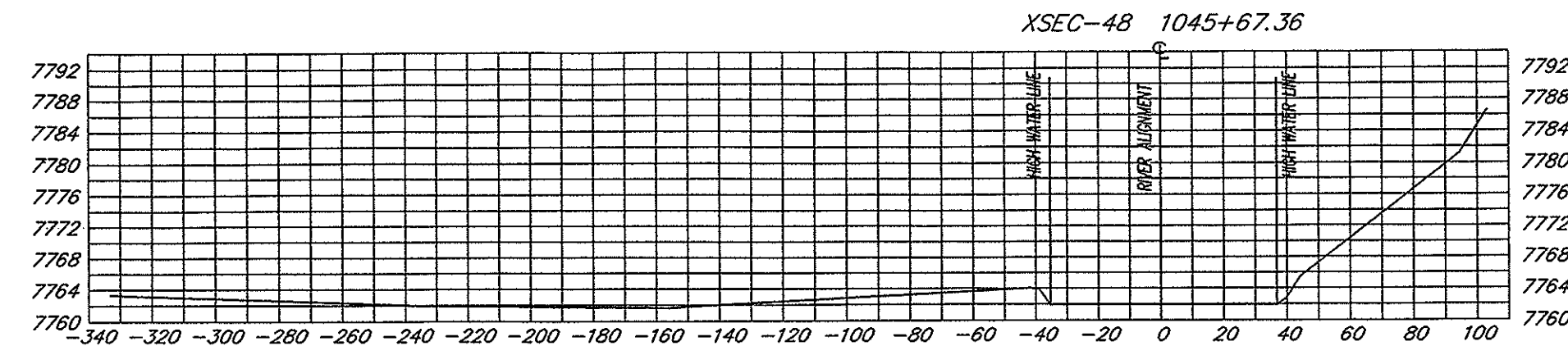
1. TOP OF BANK DOES NOT CONSTITUTE A SLOPE FAILURE LINE.
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ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 10 OF 18



SOPRIS ENGINEERING - LLC

CIVIL CONSULTANTS
502 MAIN STREET, SUITE A3
CARBONDALE, COLORADO 81623
(970) 704-0311

SCALES

HORIZONTAL 1"=50'
VERTICAL 1"=20'

SURVEY NOTES:

1. TOP OF BANK DOES NOT CONSTITUTE A SLOPE FAILURE LINE.
2. ROARING FORK RIVER STREAM MARGIN REVIEW MAP TO BE USED FOR PLANNING ONLY.

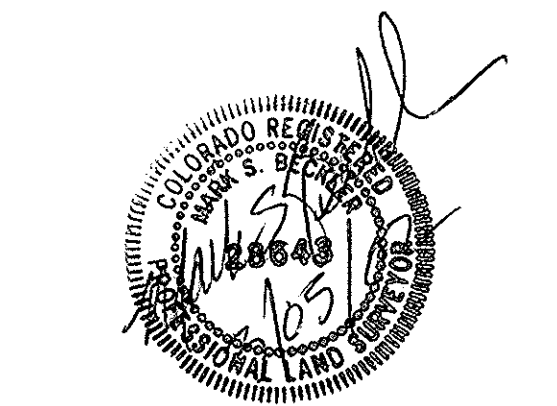
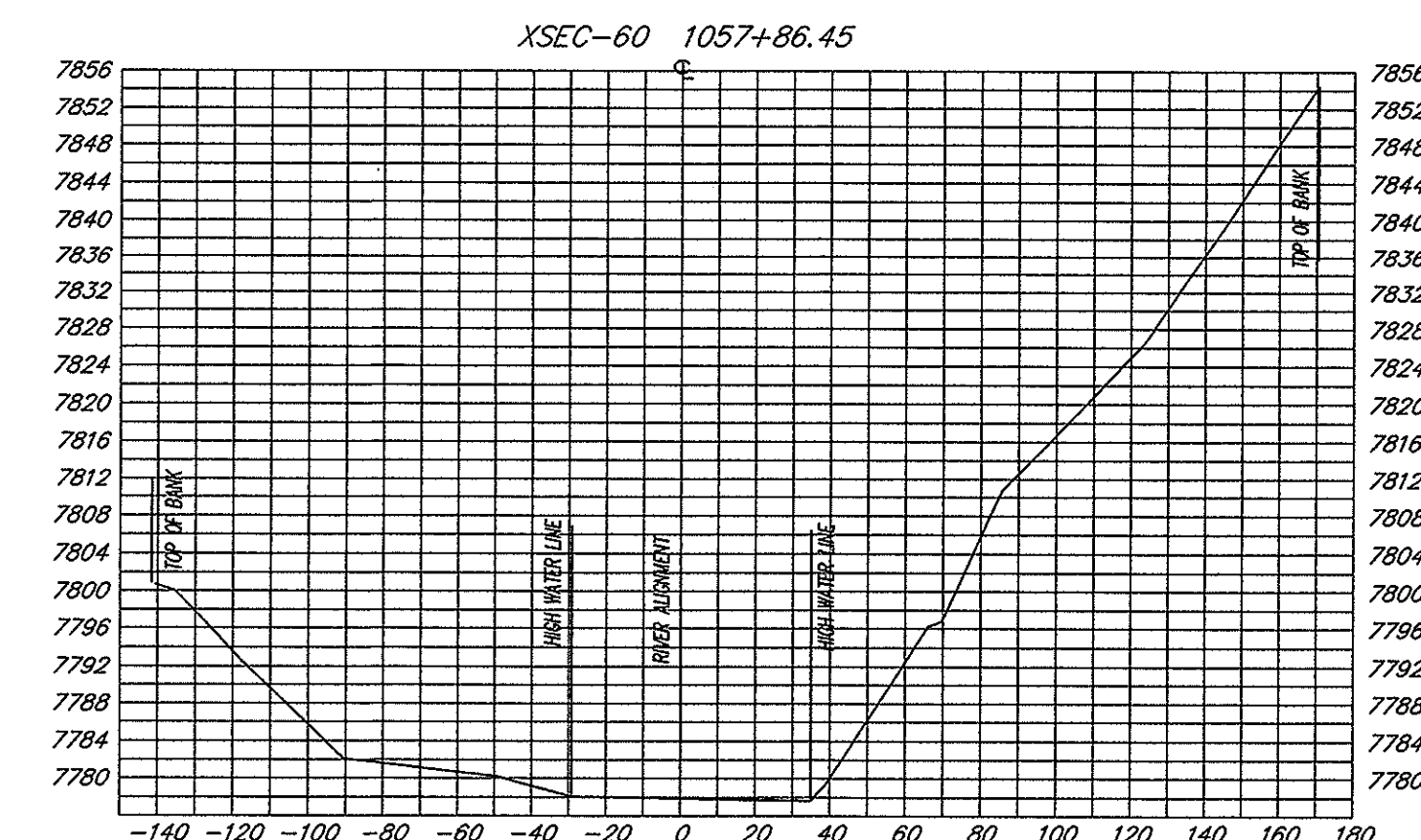
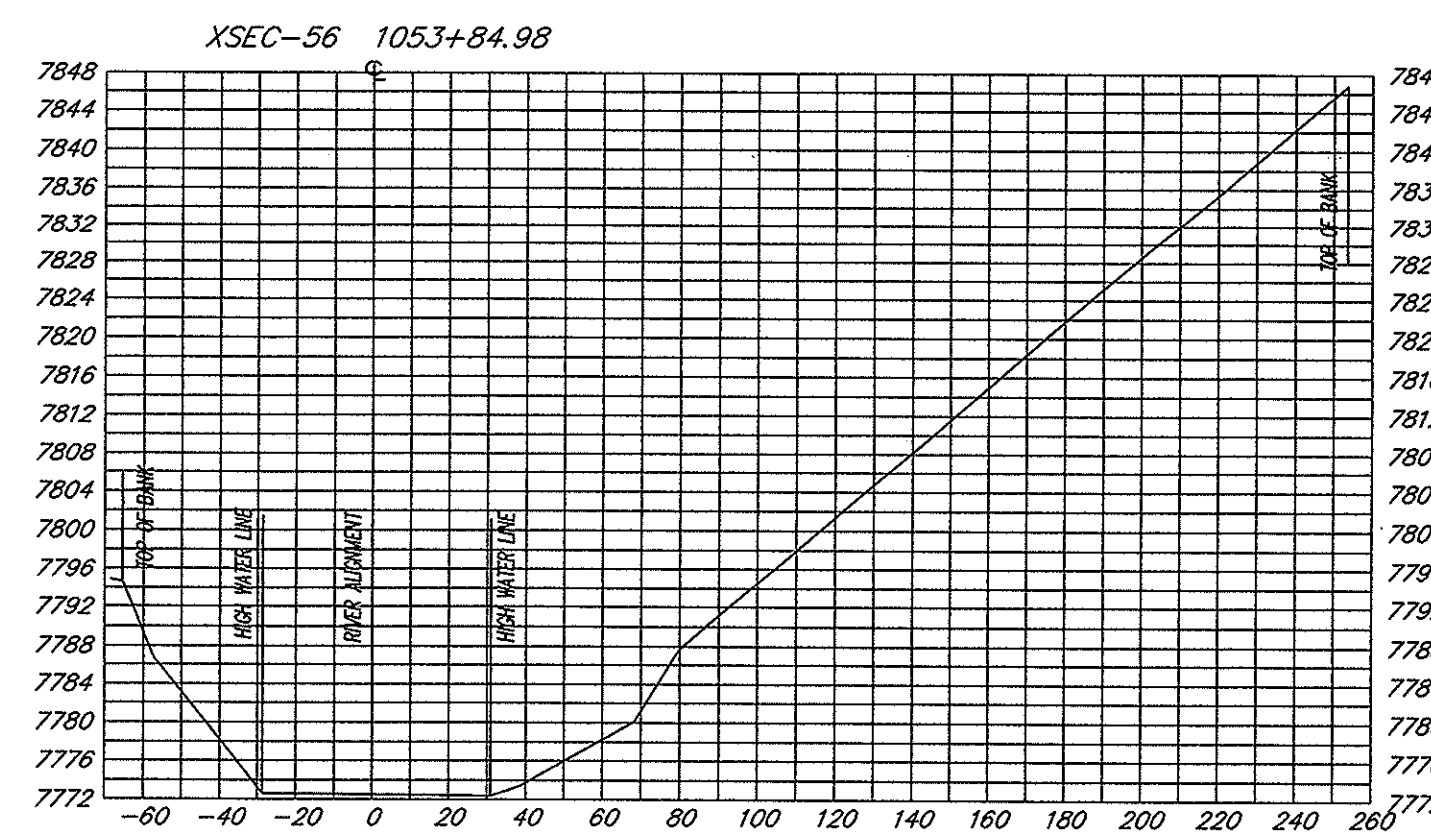
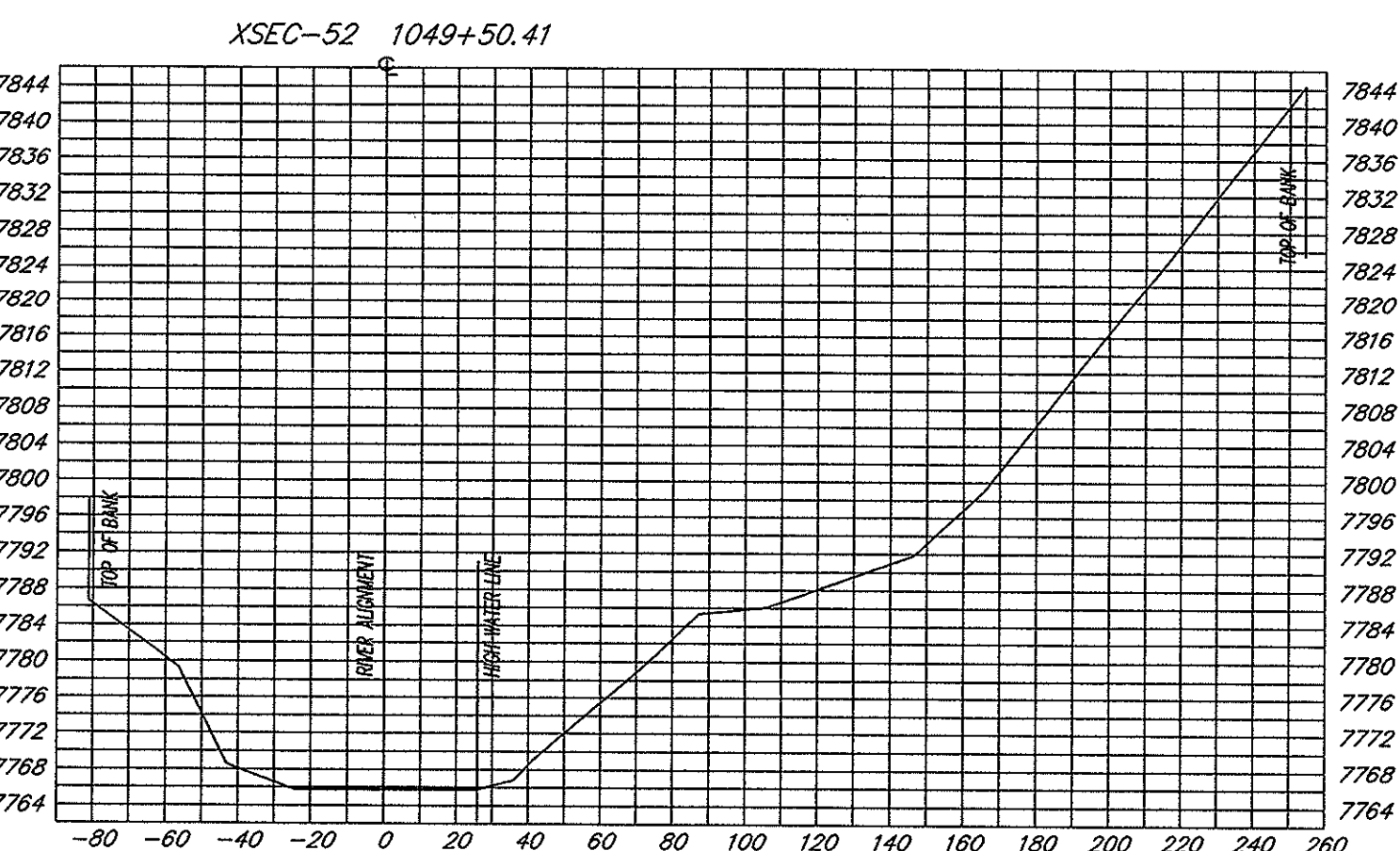
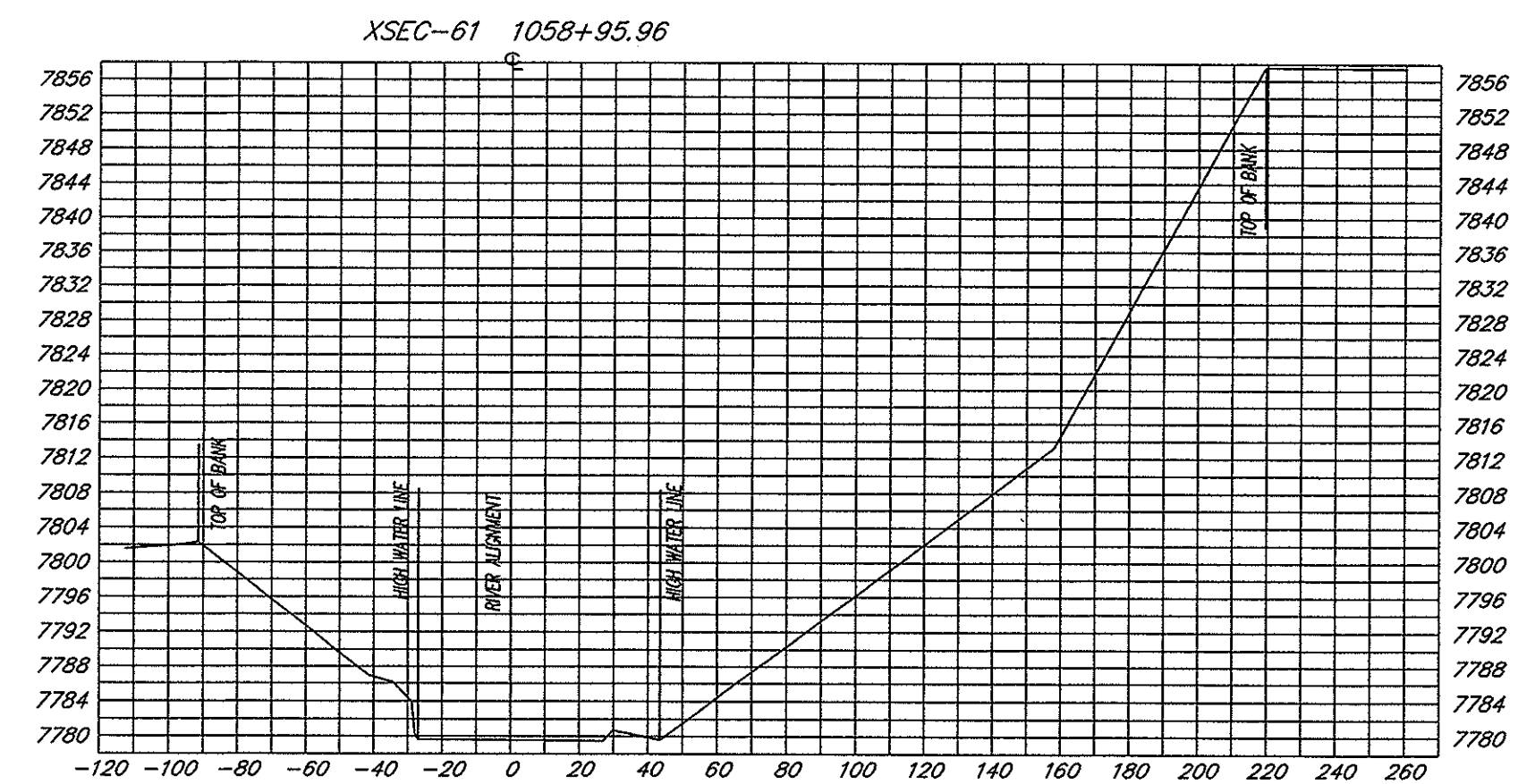
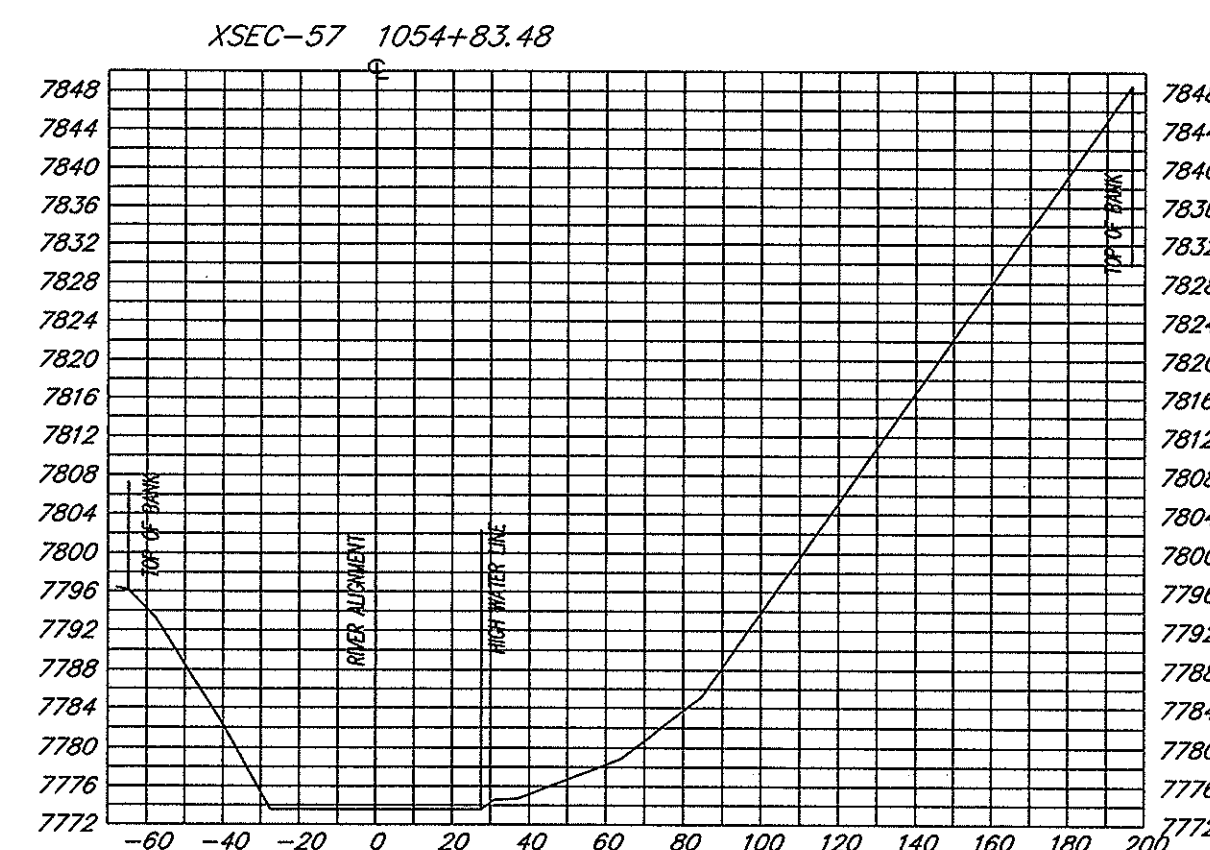
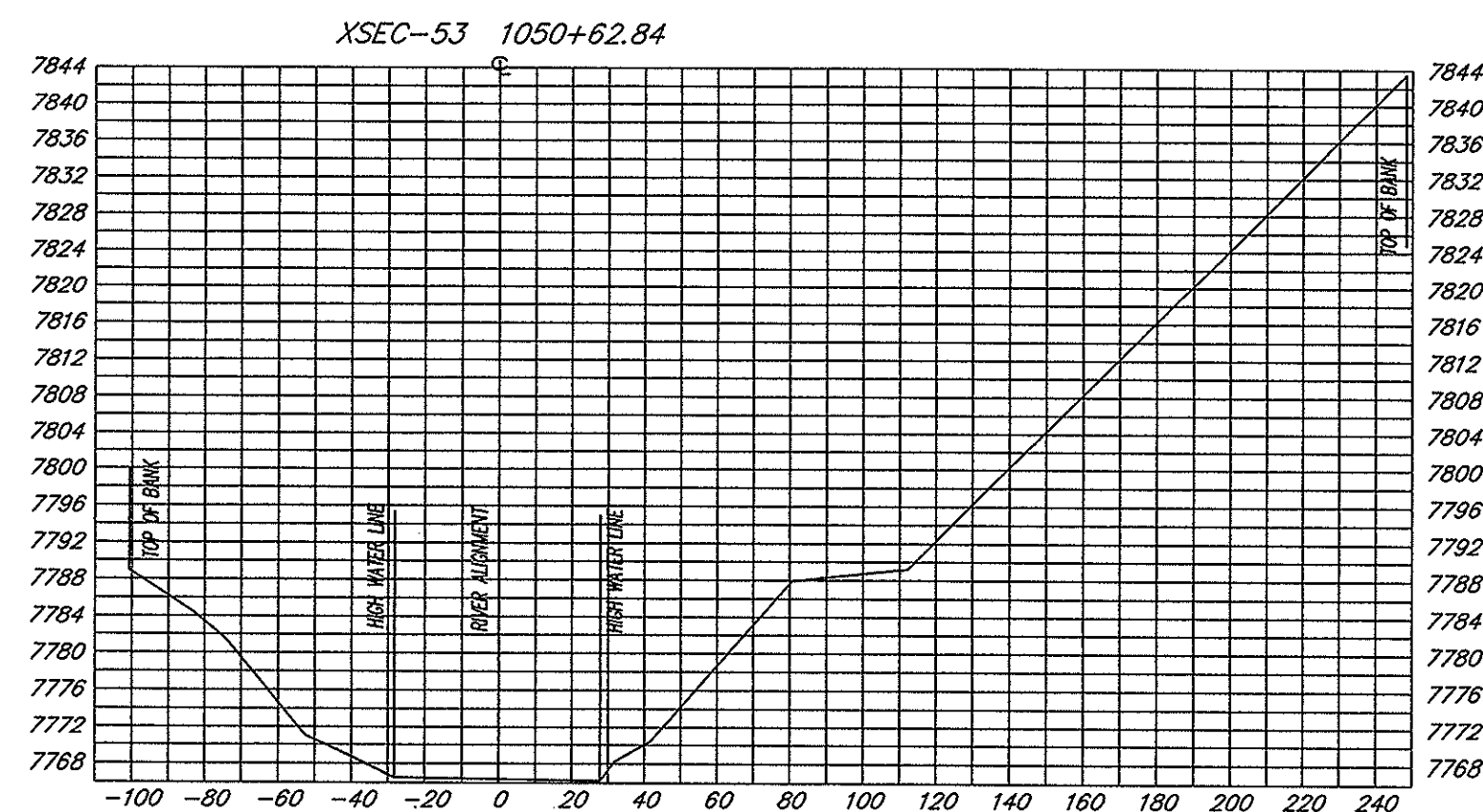
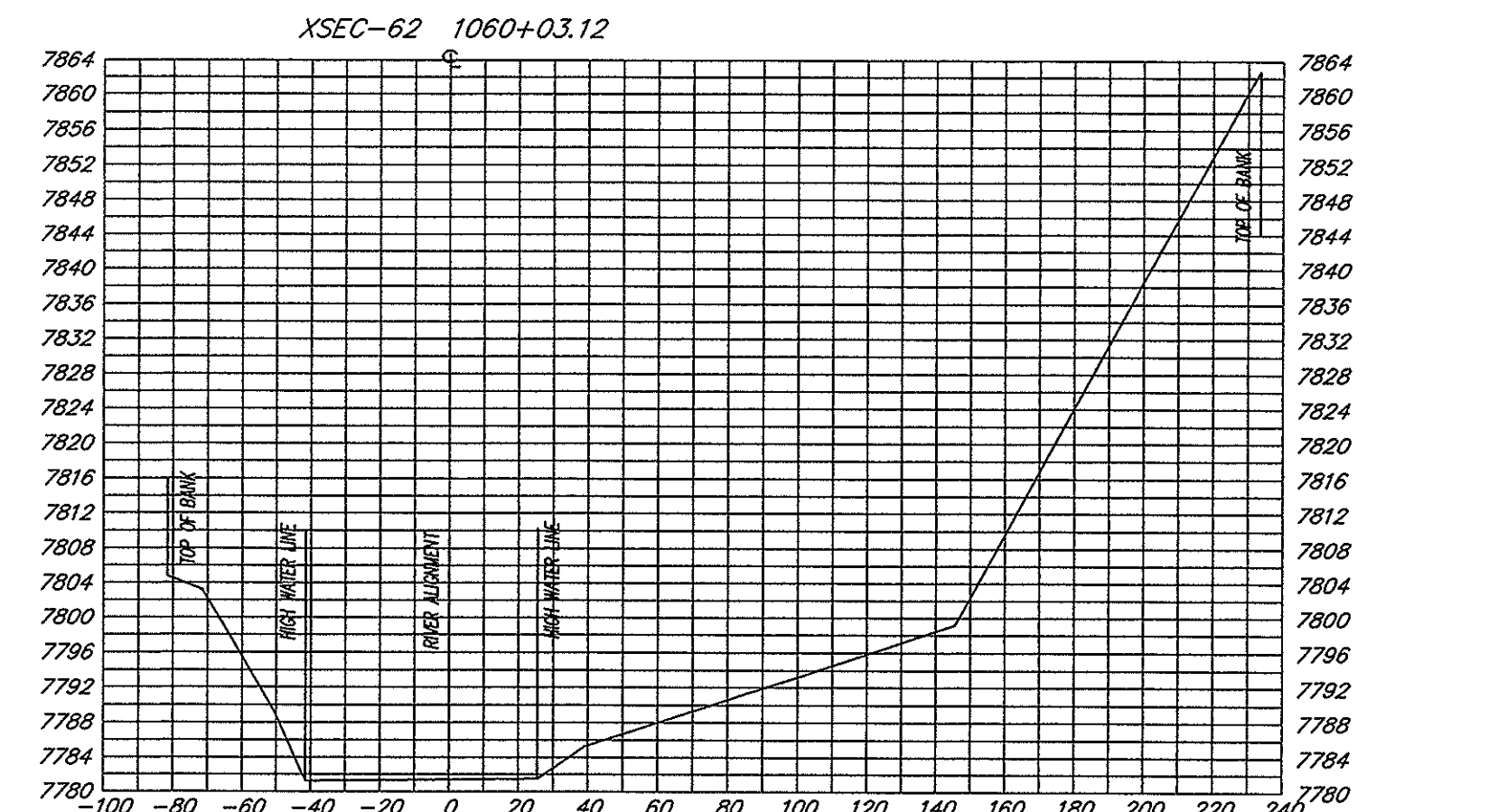
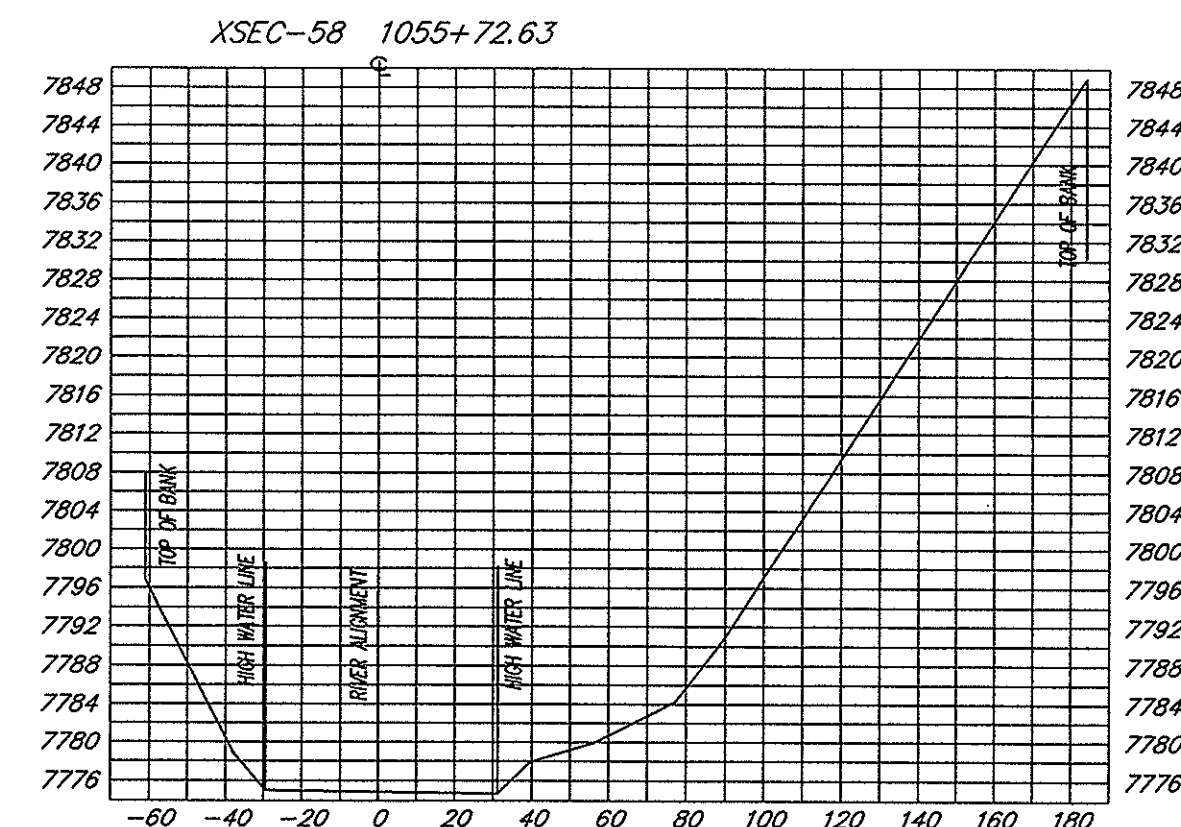
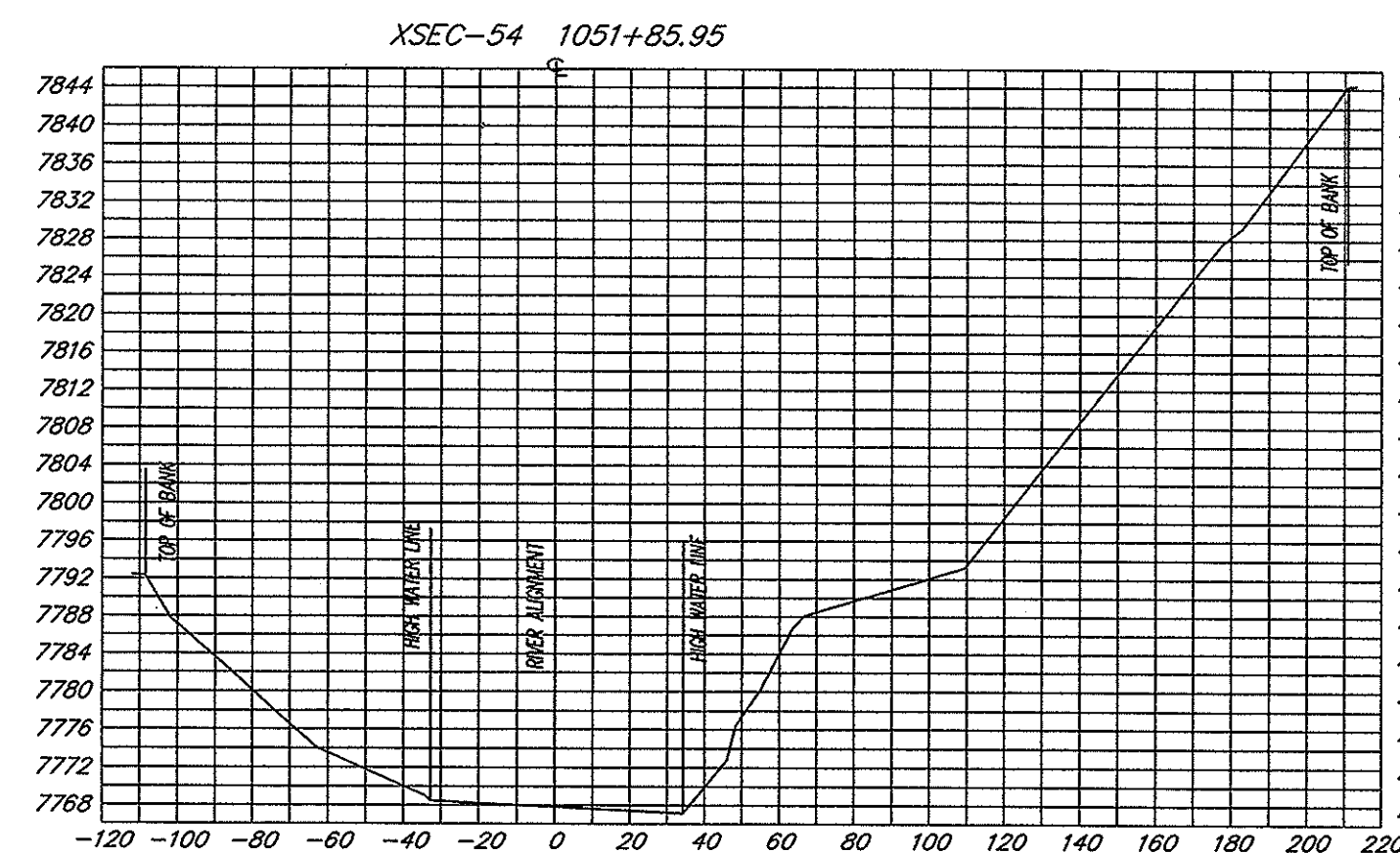
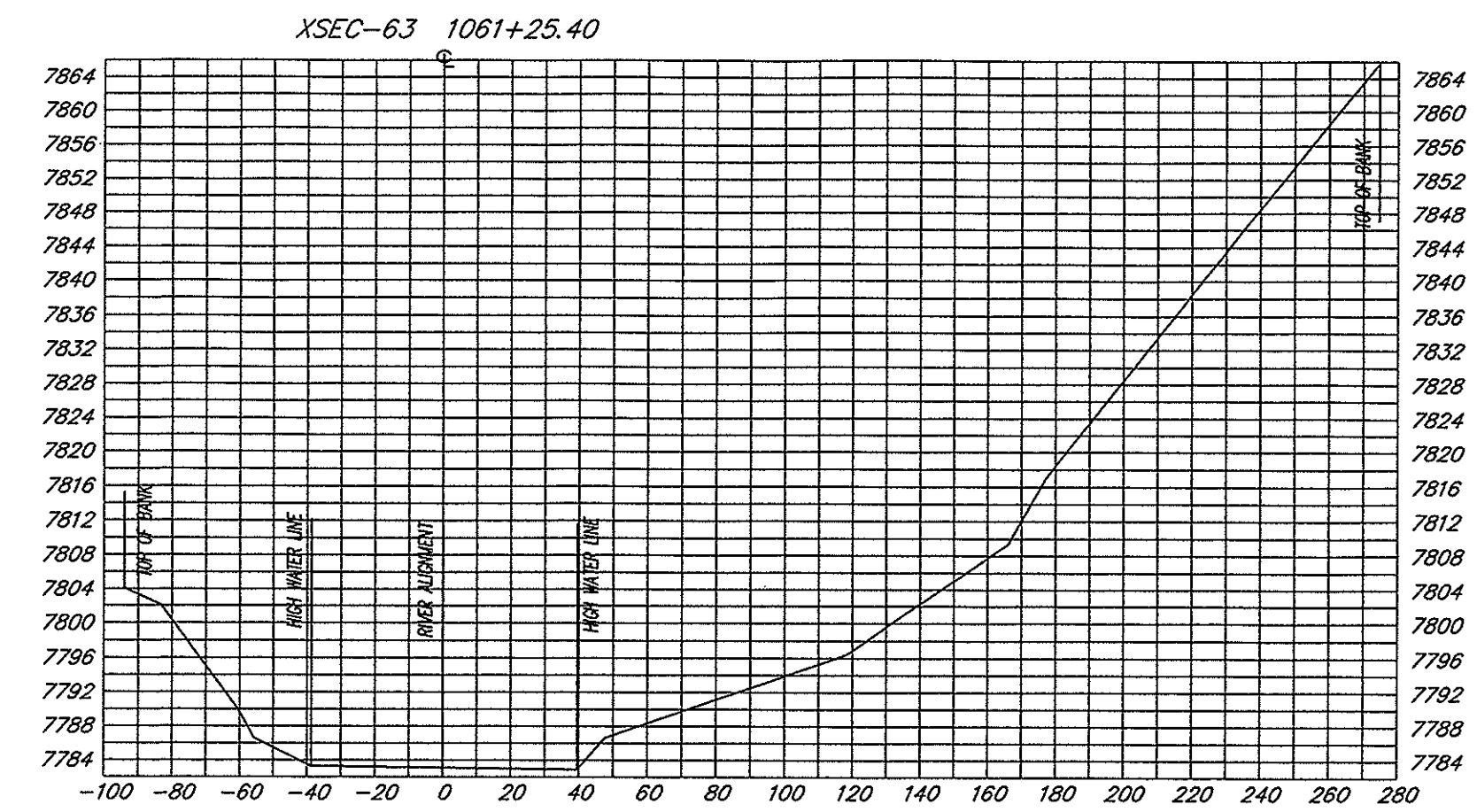
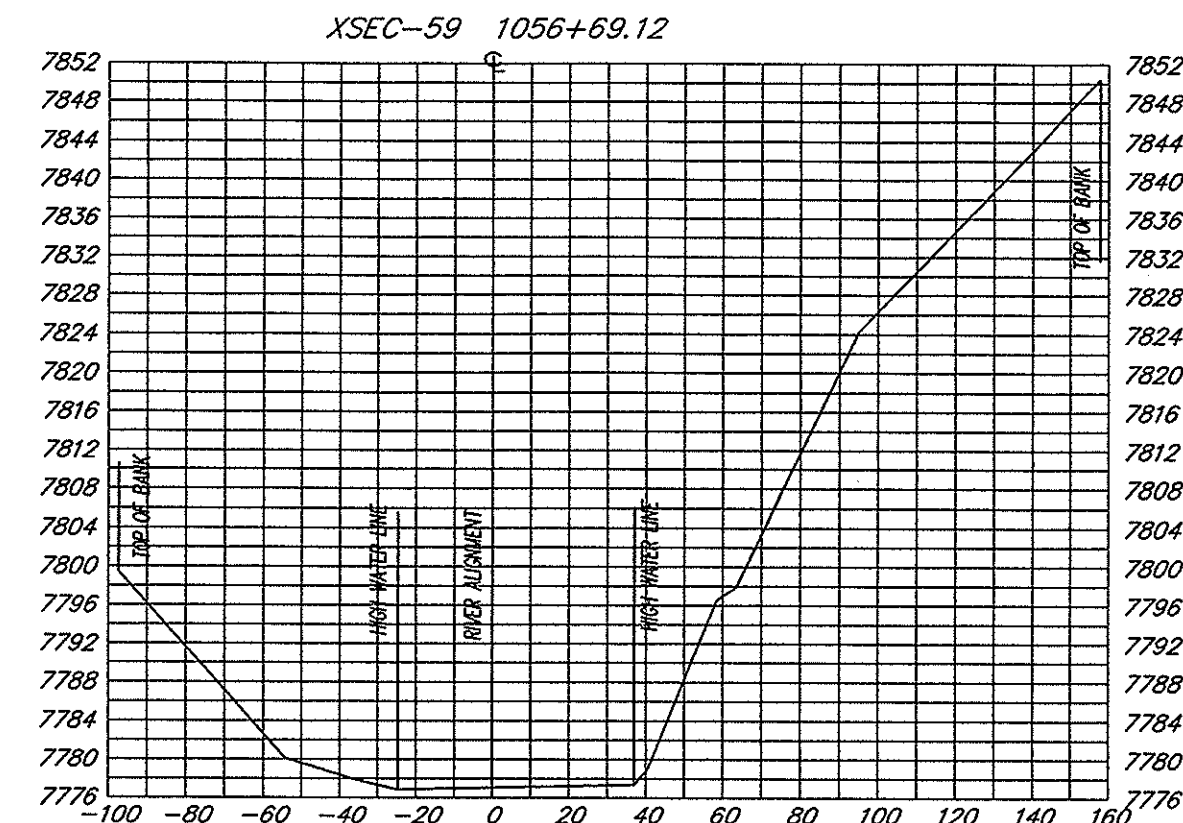
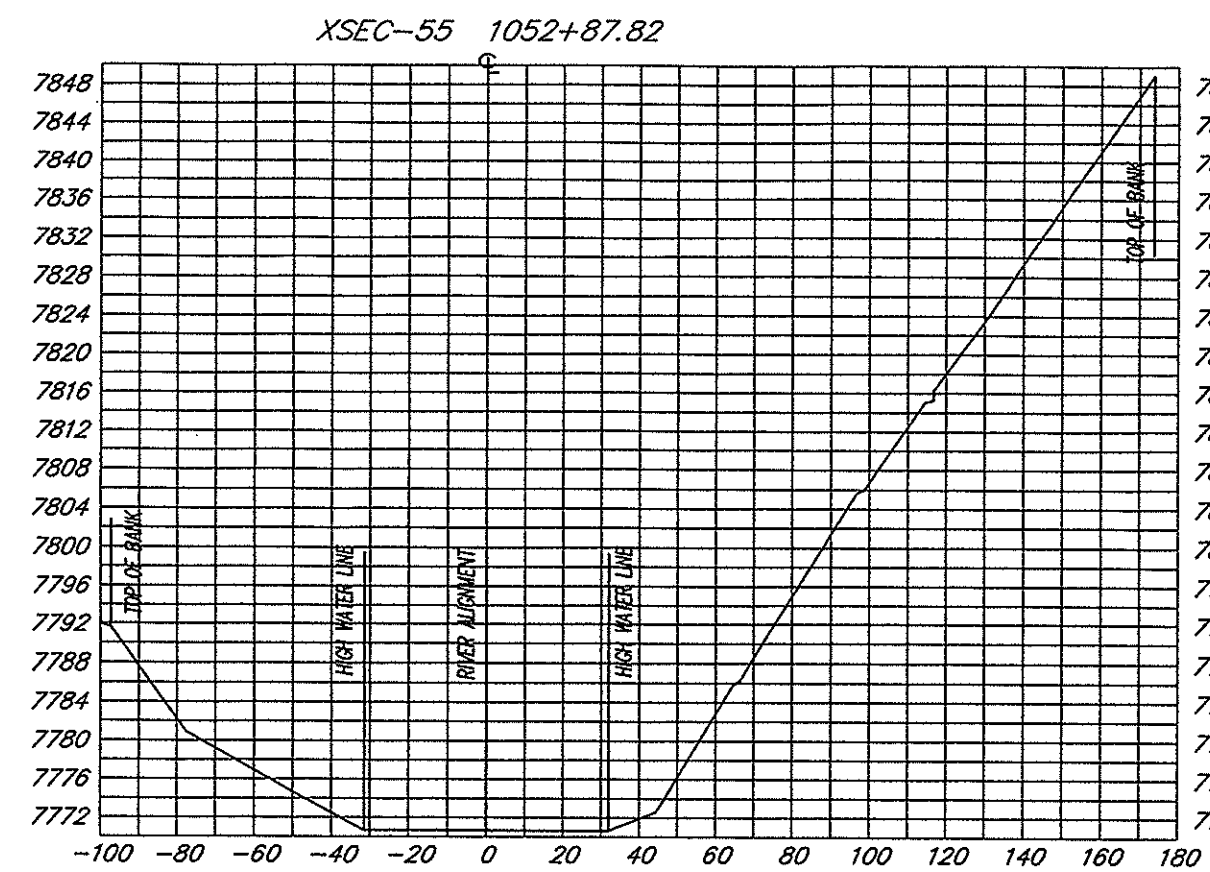


ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 11 OF 18

PLANNING REVIEW MAP OF:



SCALES
HORIZONTAL 1"=50'
VERTICAL 1"=20'

SURVEY NOTES:

1. TOP OF BANK DOES NOT CONSTITUTE A SLOPE FAILURE LINE.
2. ROARING FORK RIVER STREAM MARGIN REVIEW MAP TO BE USED FOR PLANNING ONLY.

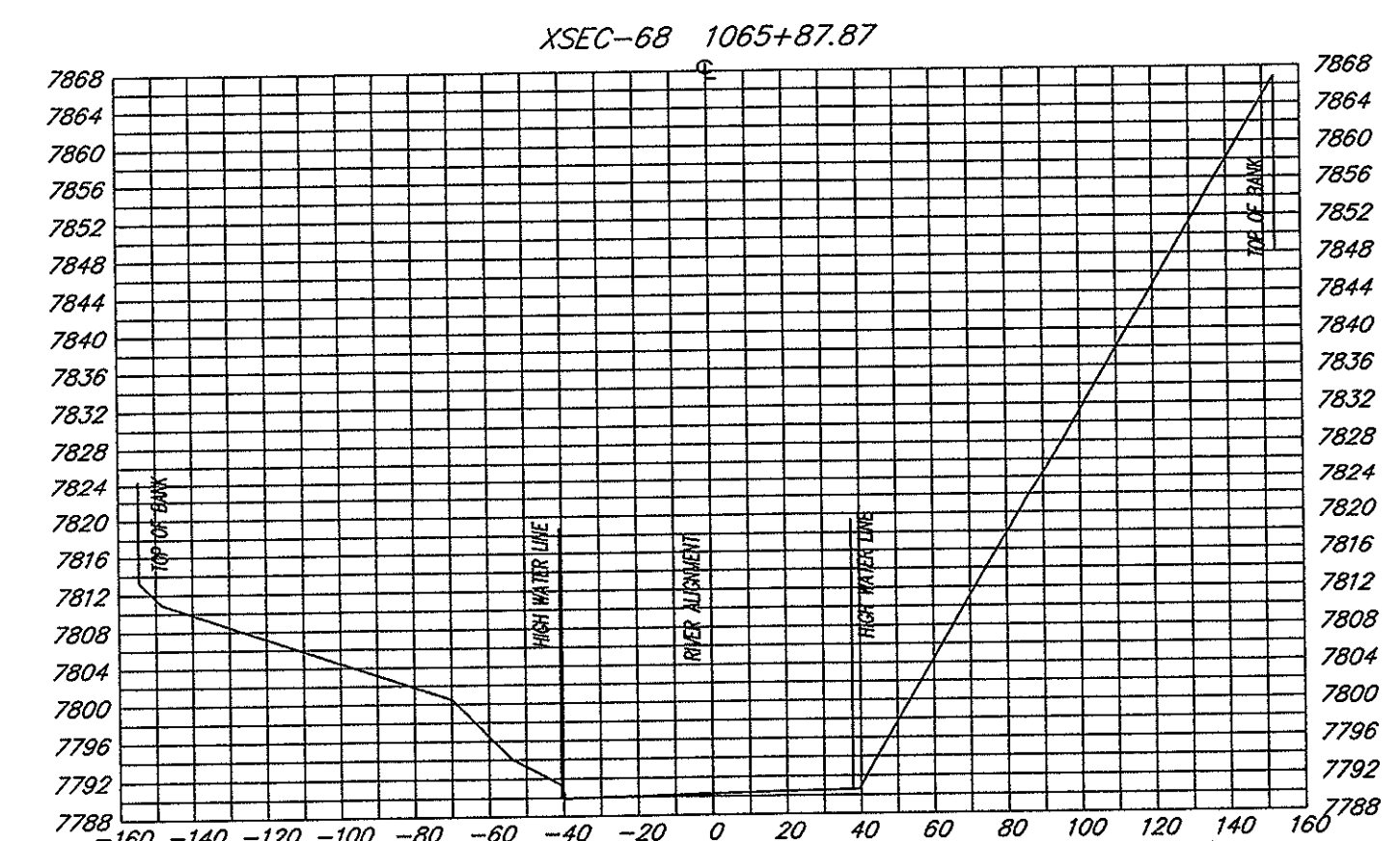
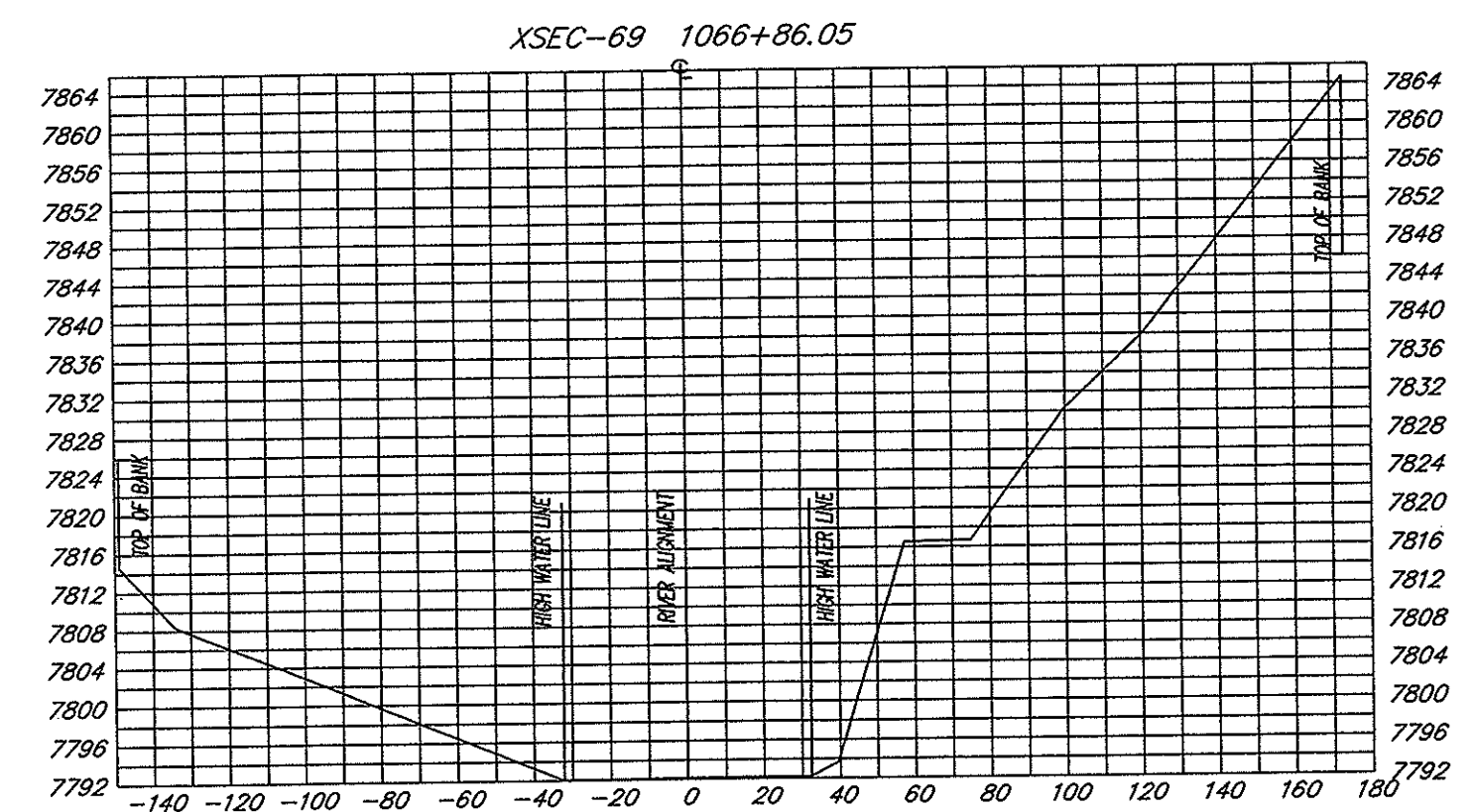
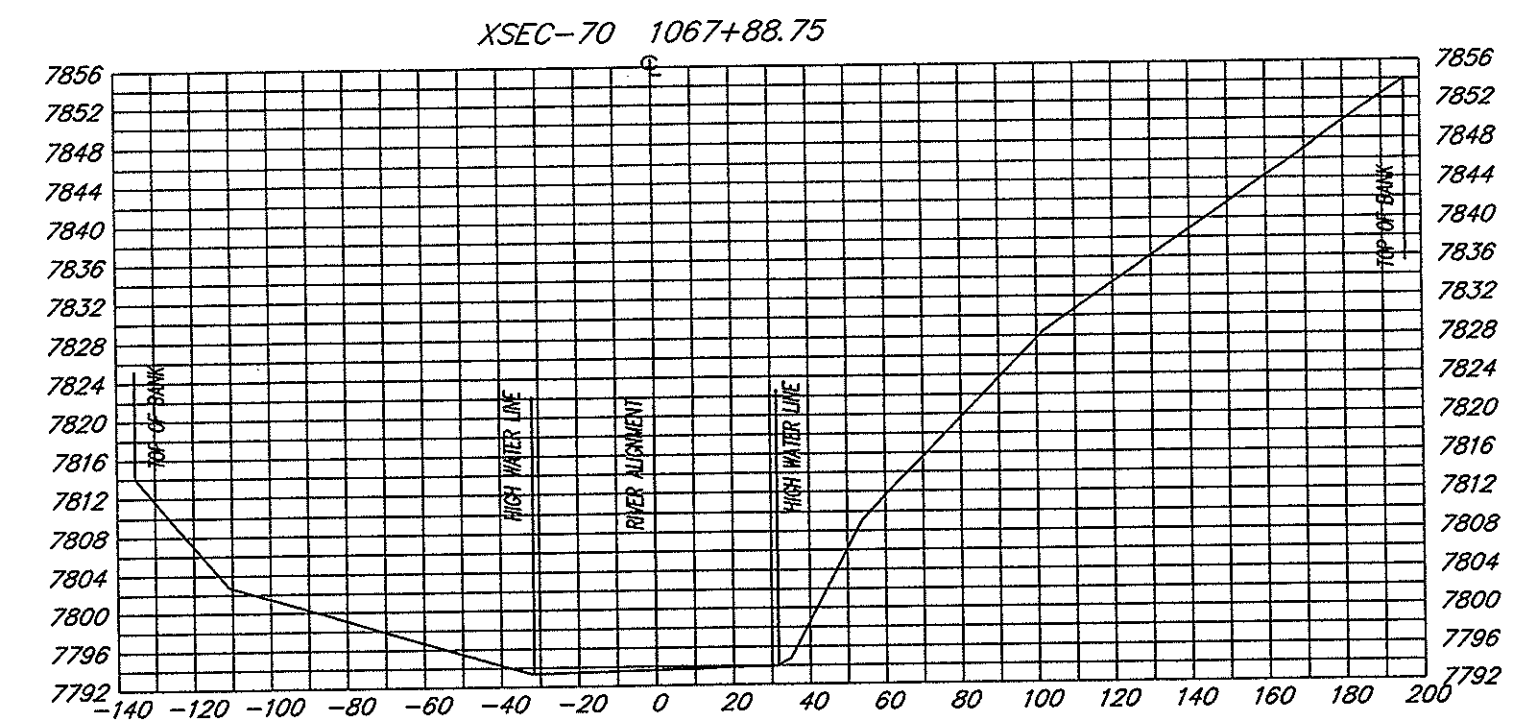
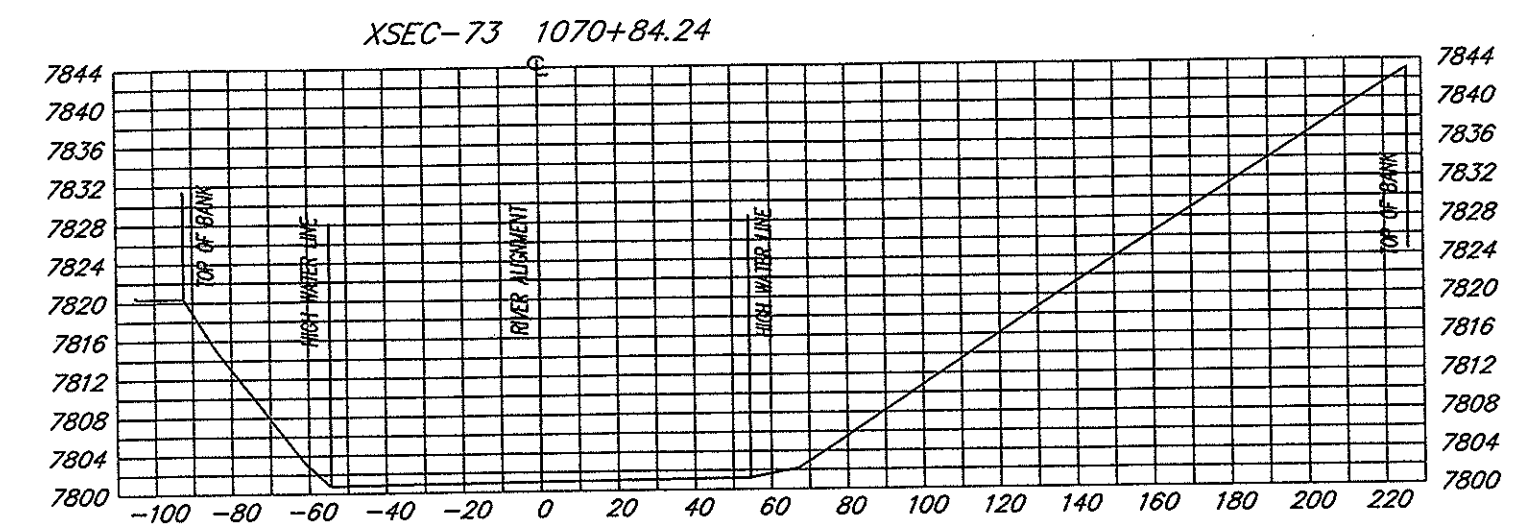
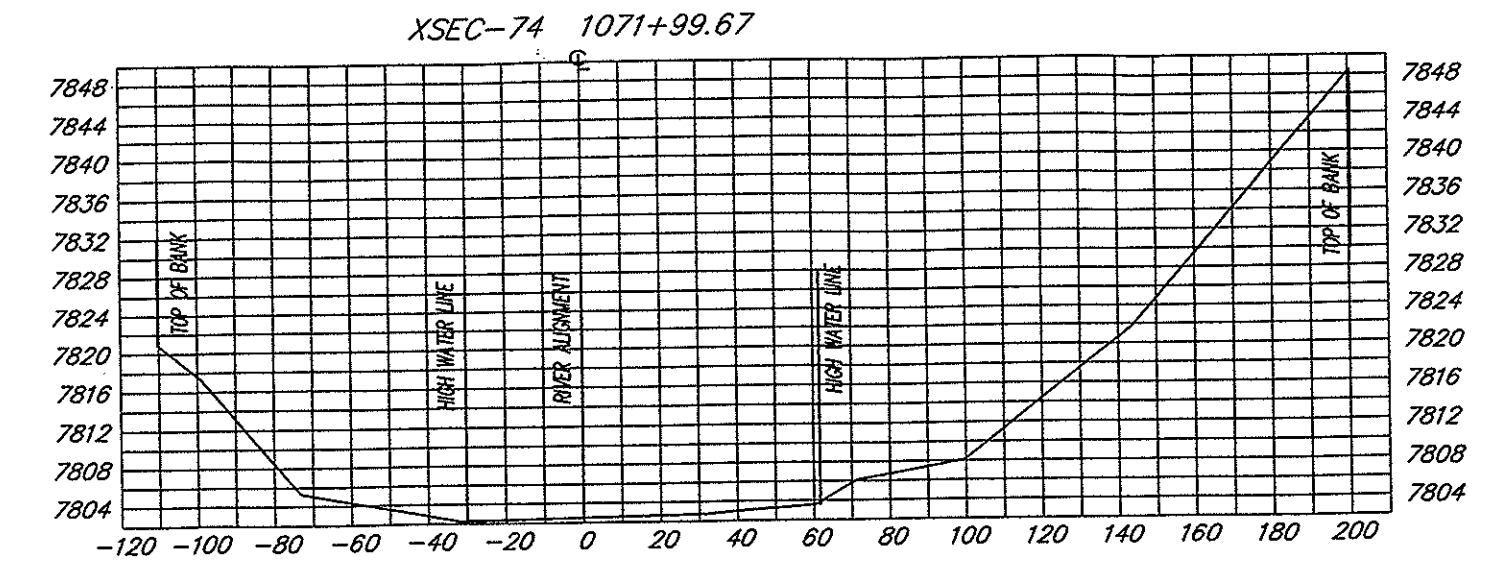
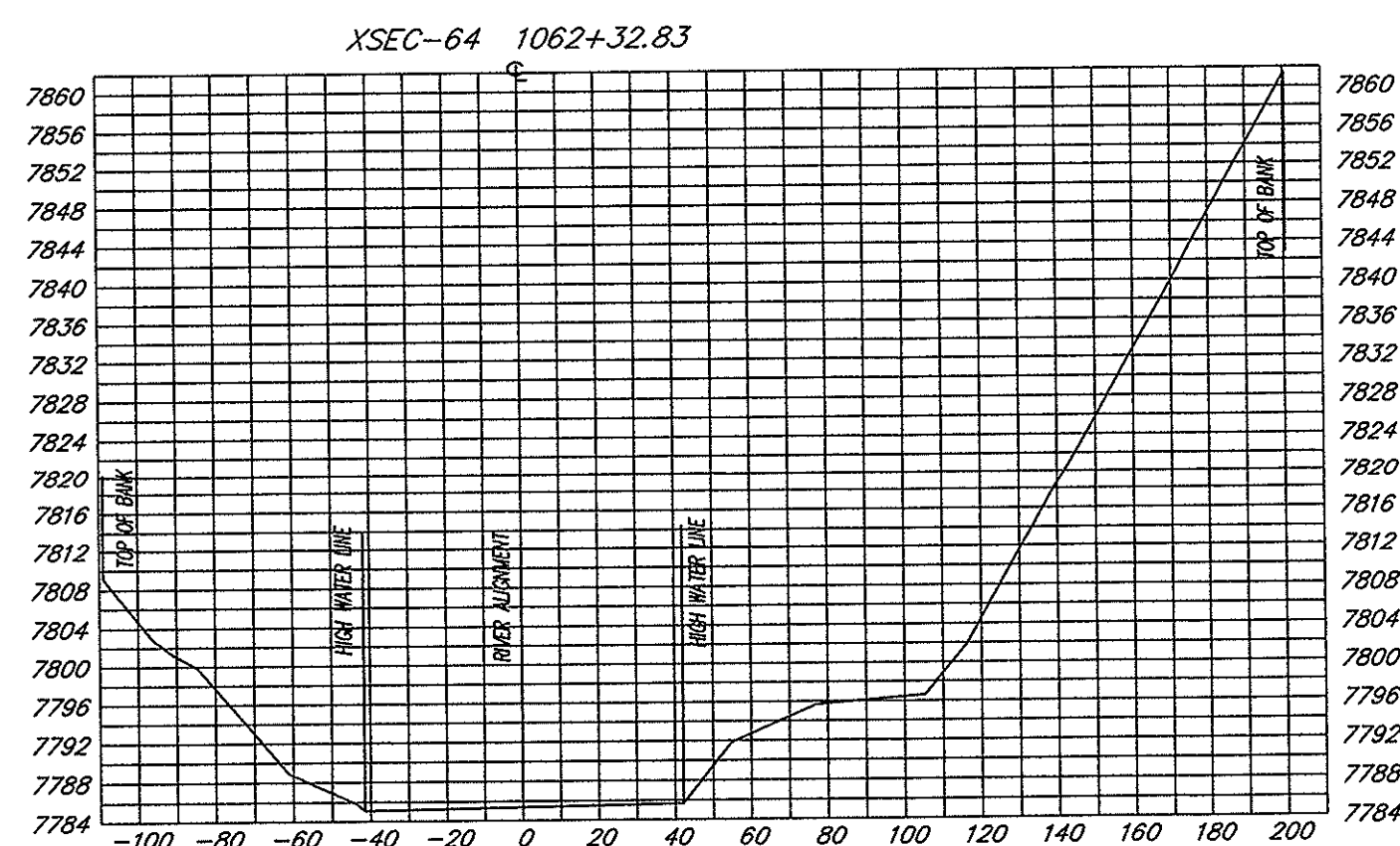
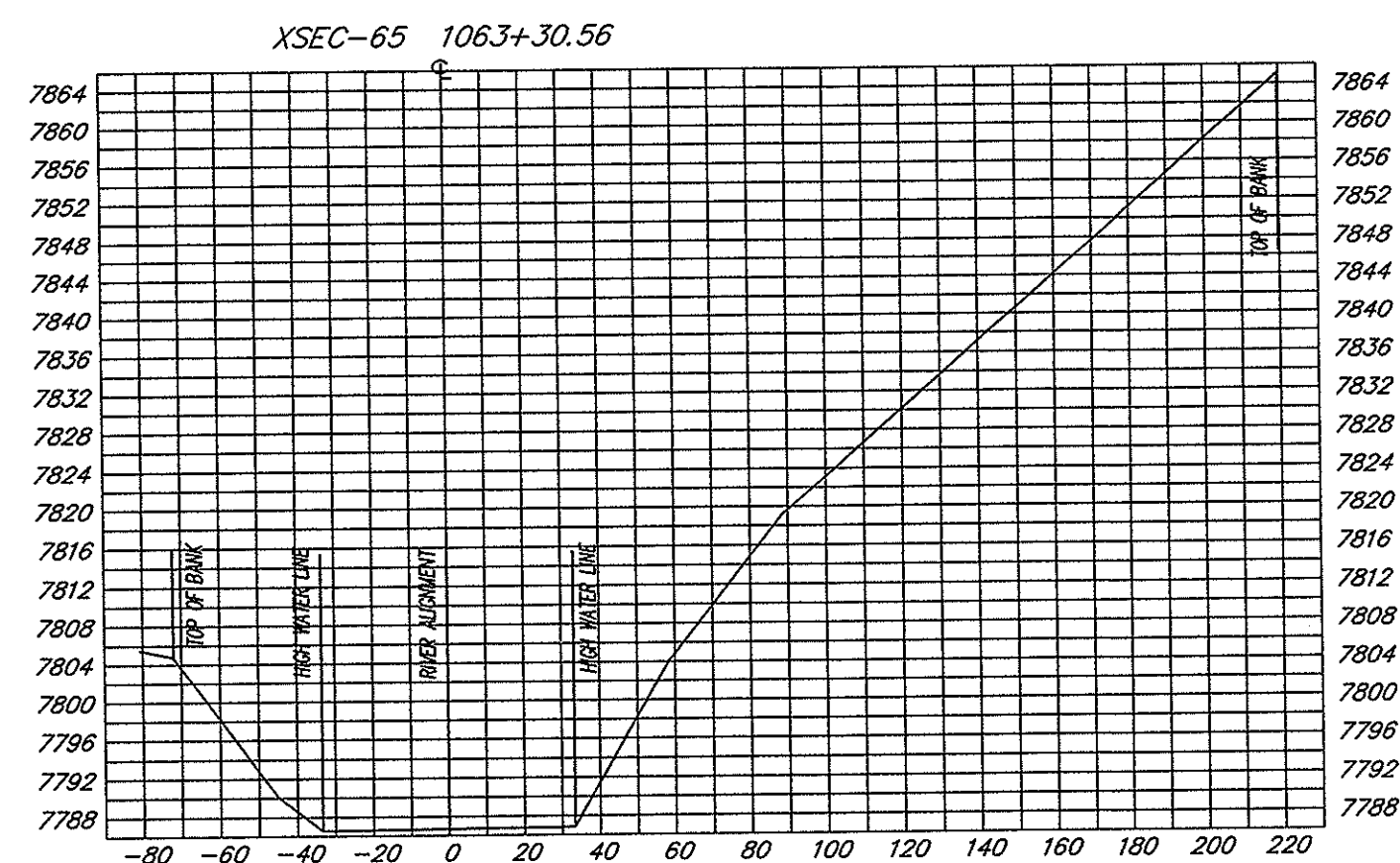
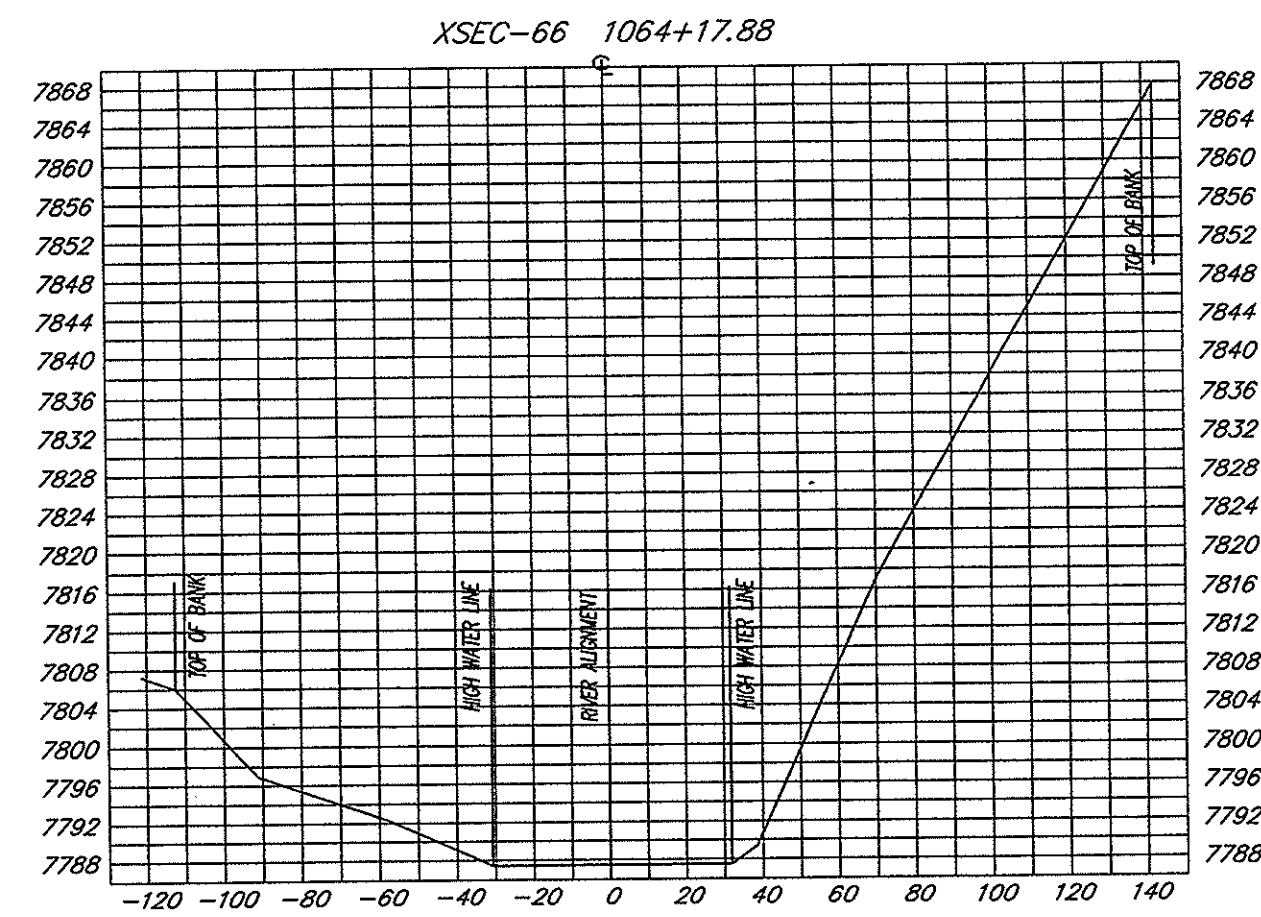
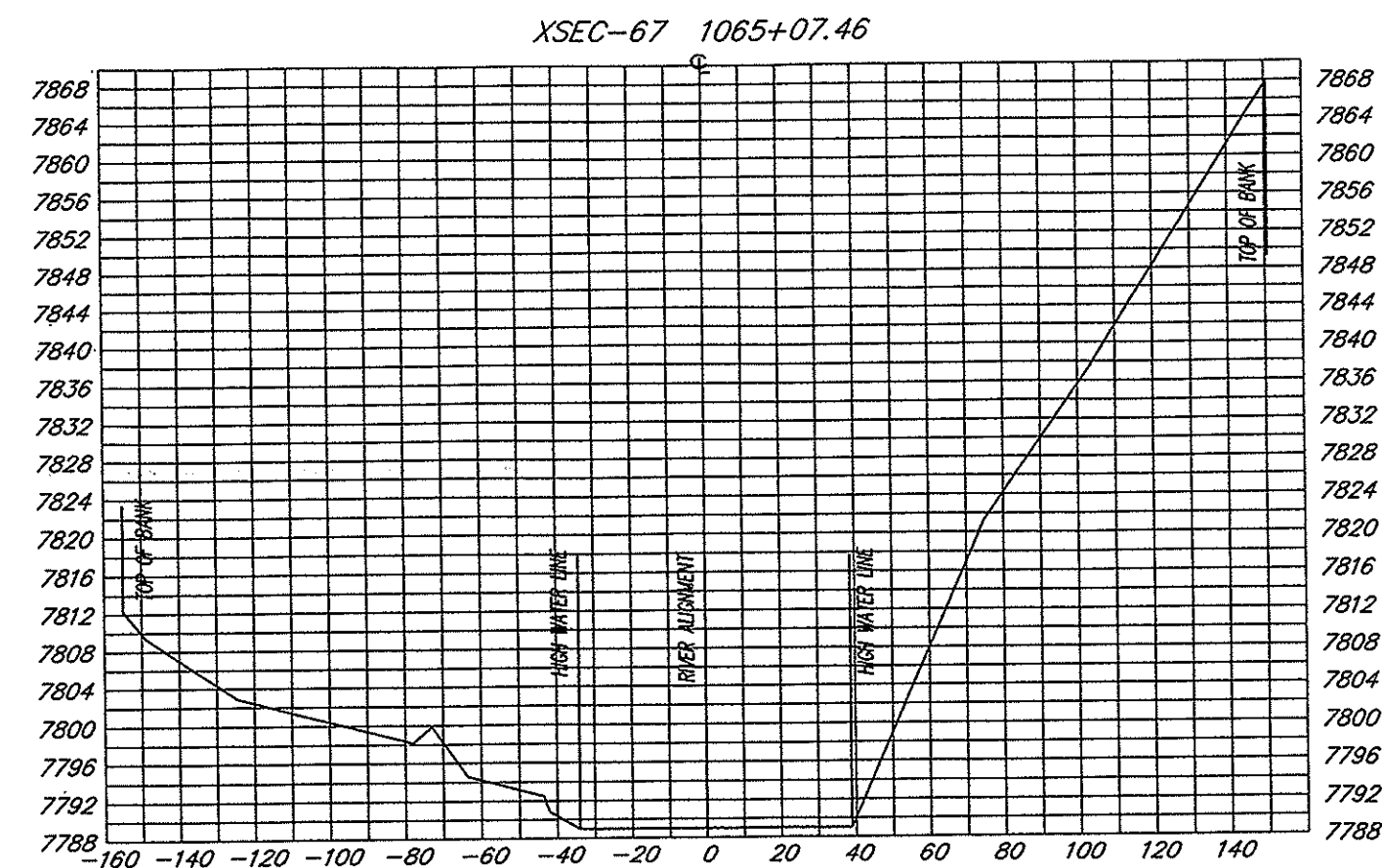
SOPRIS ENGINEERING - LLC

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502 MAIN STREET, SUITE A3
CARBONDALE, COLORADO 81623
(970) 704-0311

ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 12 OF 18



SURVEY NOTES:

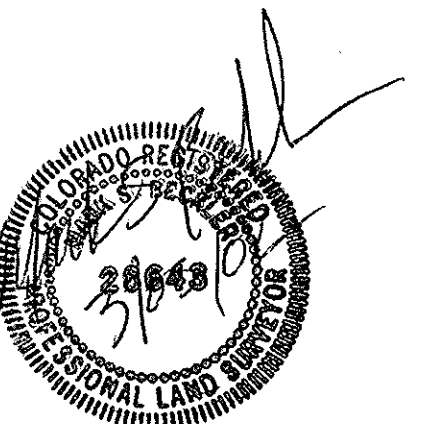
1. TOP OF BANK DOES NOT CONSTITUTE A SLOPE FAILURE LINE.
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SOPRIS ENGINEERING - LLC

CIVIL CONSULTANTS
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CARBONDALE, COLORADO 81623
(970) 704-0311

SCALES

HORIZONTAL 1"=50'
VERTICAL 1"=20'

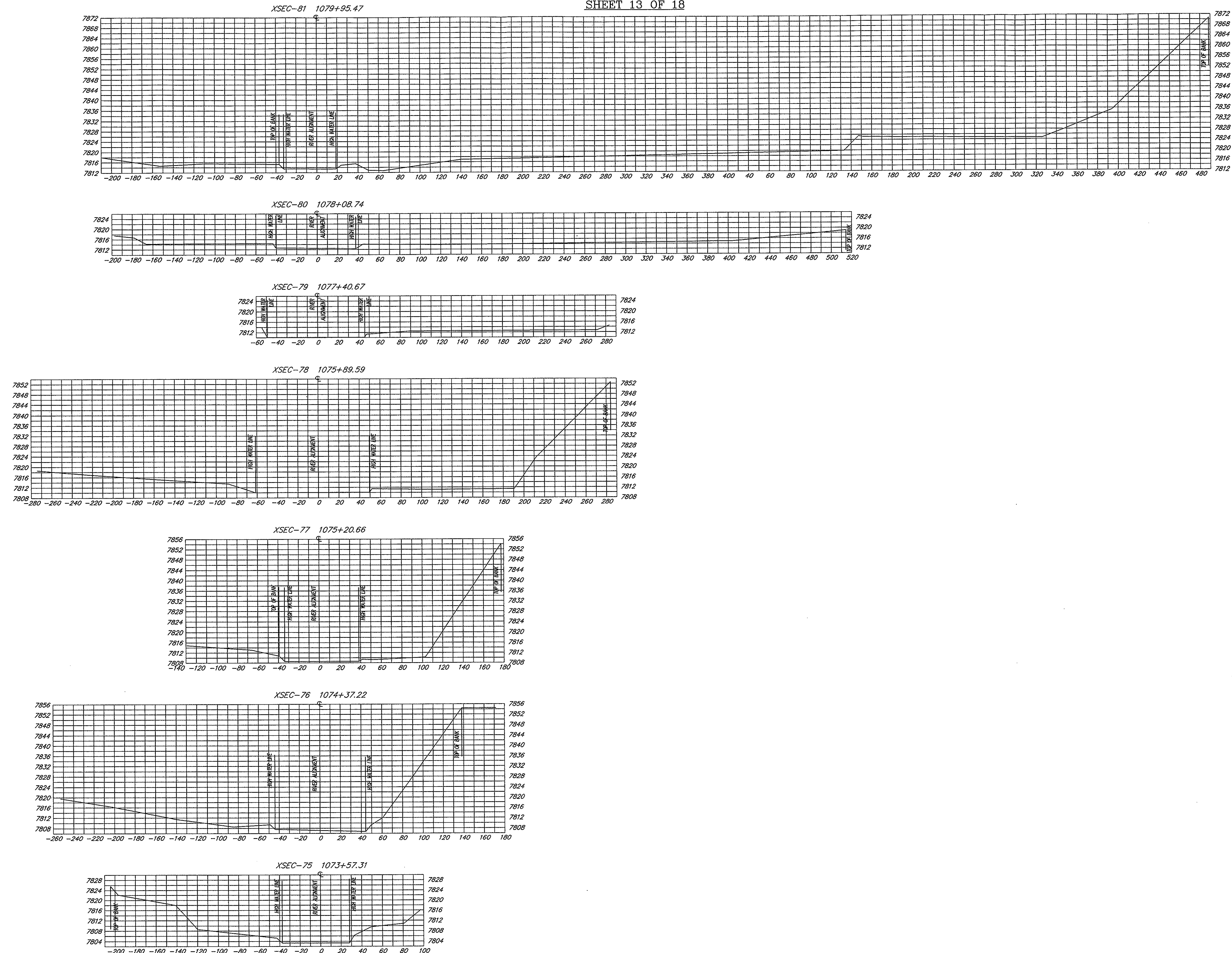


ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

PLANNING REVIEW MAP OF:

SHEET 13 OF 18



SCALES

HORIZONTAL 1"=50'
VERTICAL 1"=20'

SOPRIS ENGINEERING - LLC

CIVIL CONSULTANTS
502 MAIN STREET, SUITE A3
CARBONDALE, COLORADO 81623
(970) 704-0311

SURVEY NOTES:

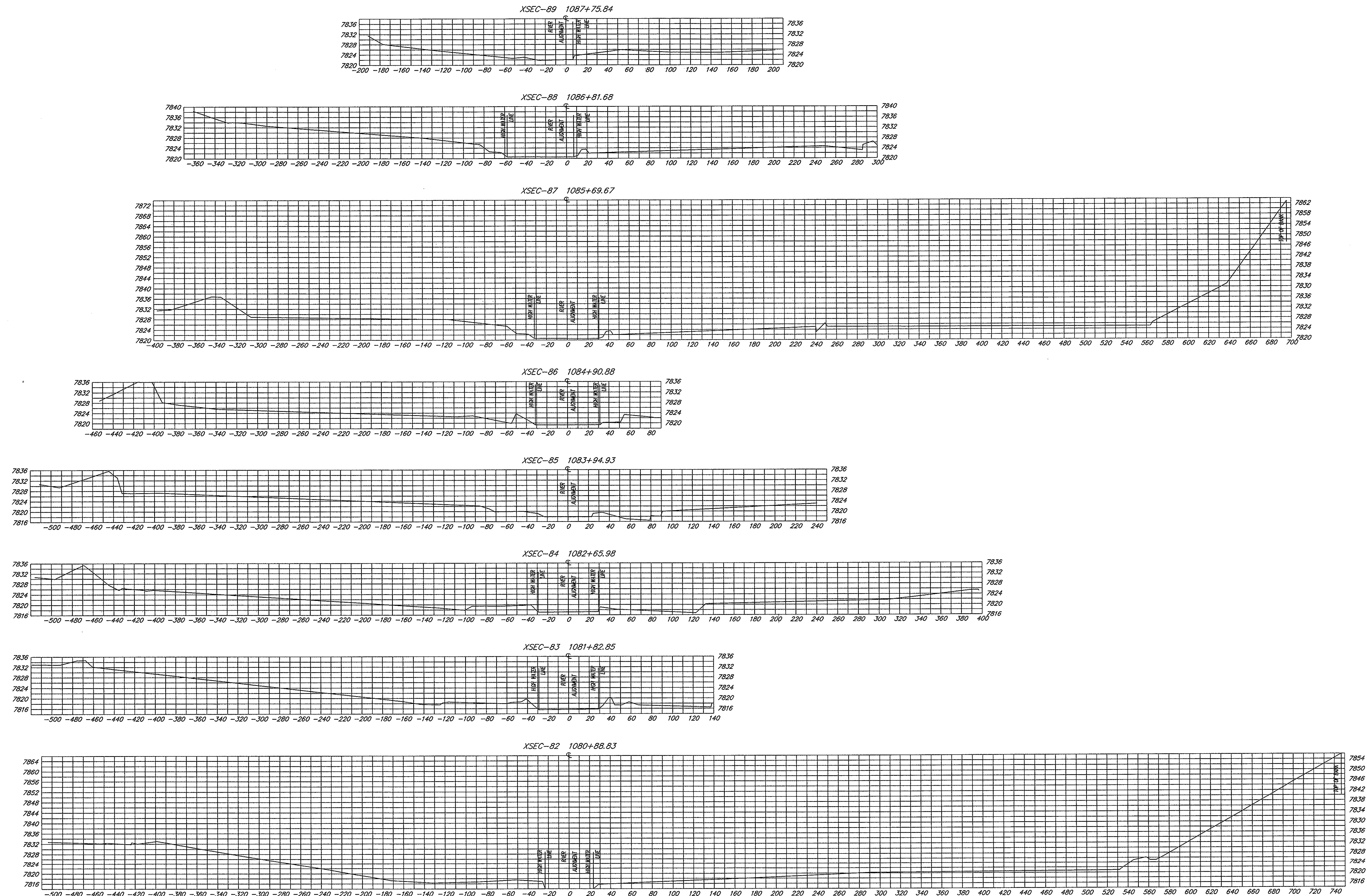
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ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 14 OF 18



SOPRIS ENGINEERING - LLC

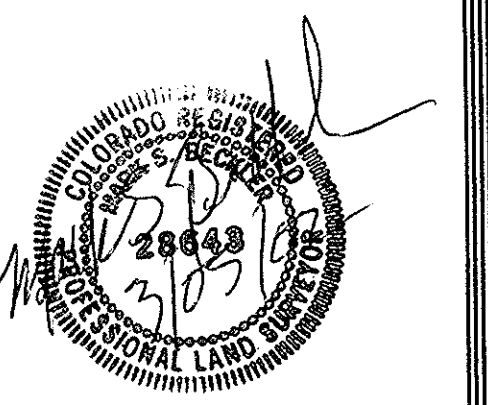
CIVIL CONSULTANTS
502 MAIN STREET, SUITE A3
CARBONDALE, COLORADO 81623
(970) 704-0311

SCALES

HORIZONTAL 1"=50'
VERTICAL 1"=20'

SURVEY NOTES:

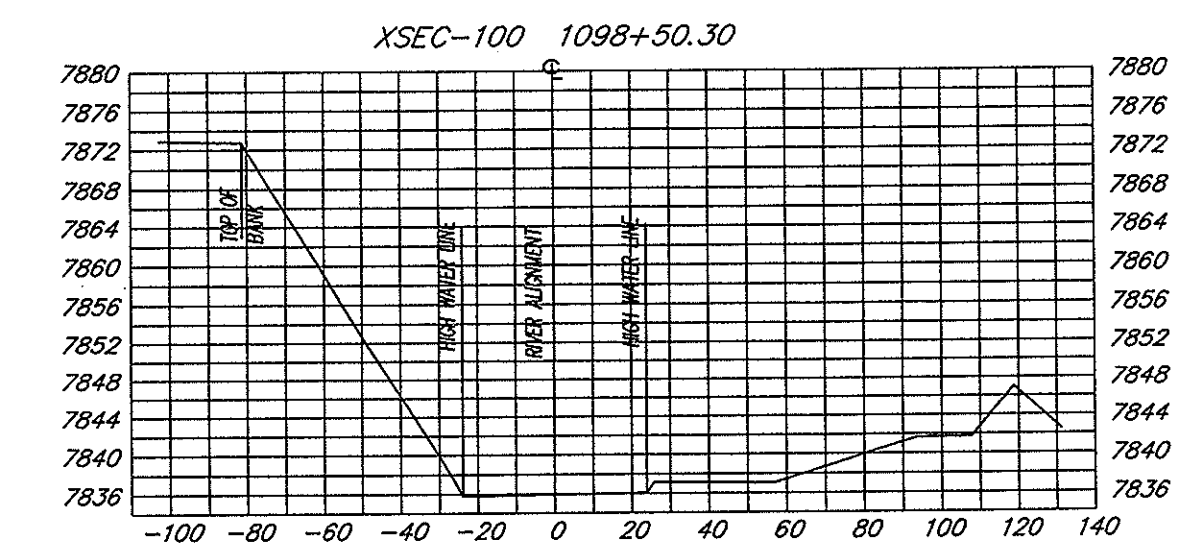
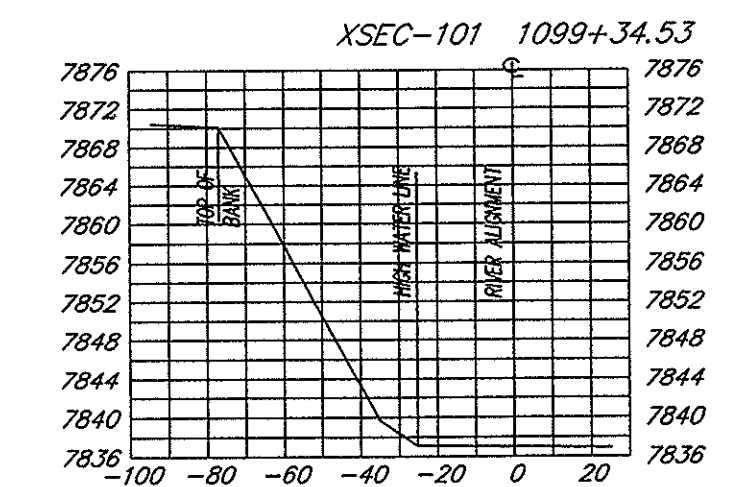
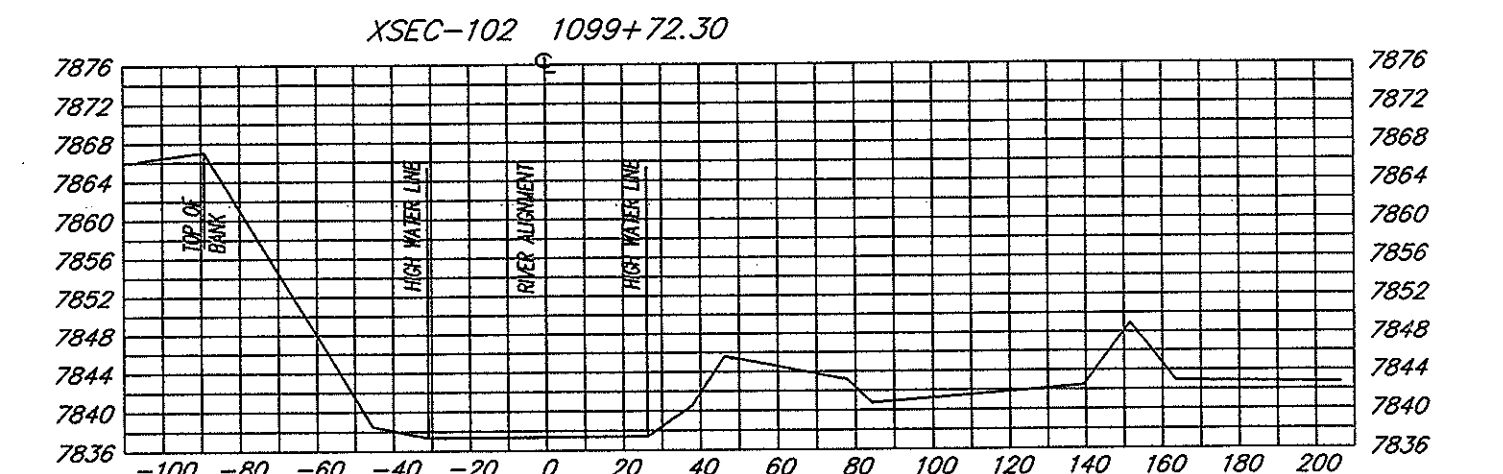
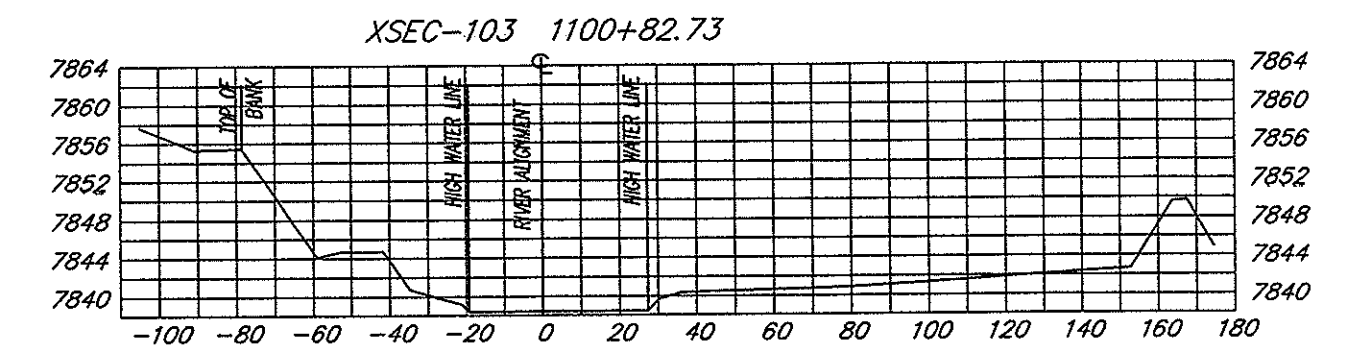
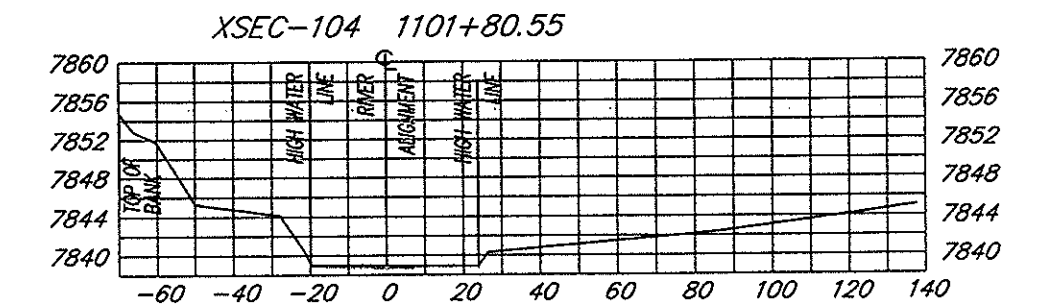
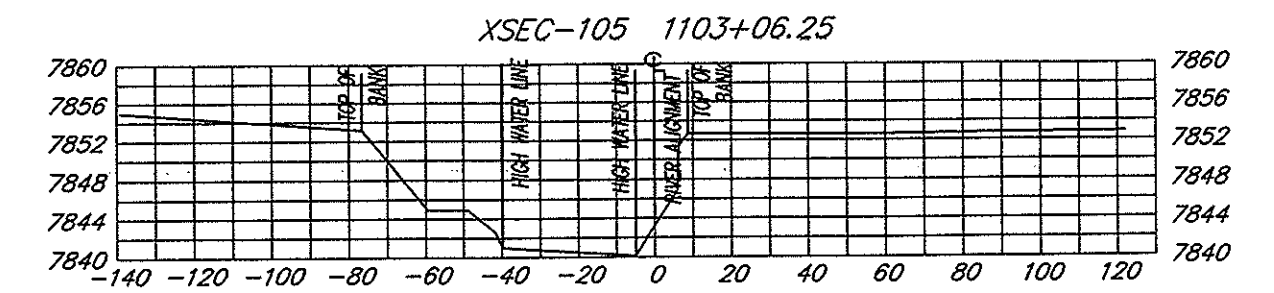
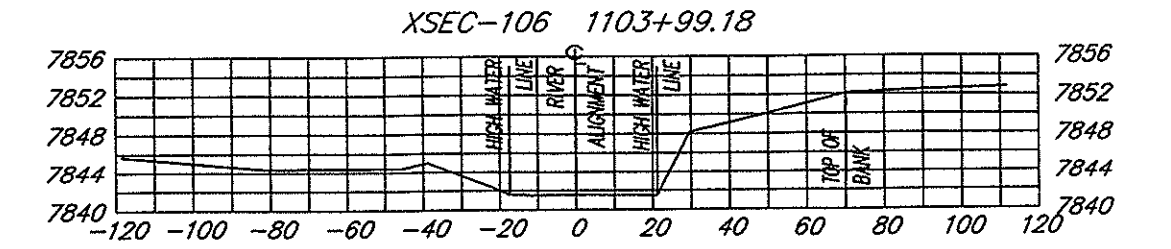
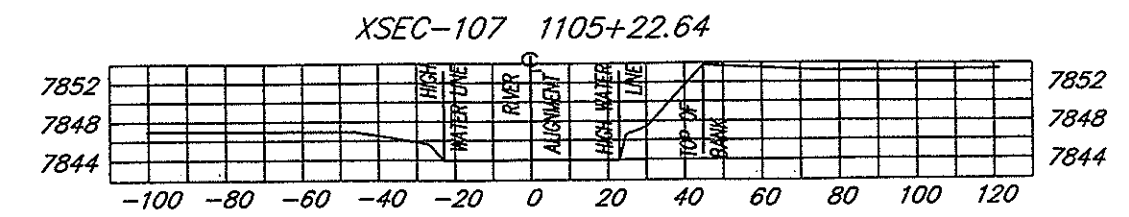
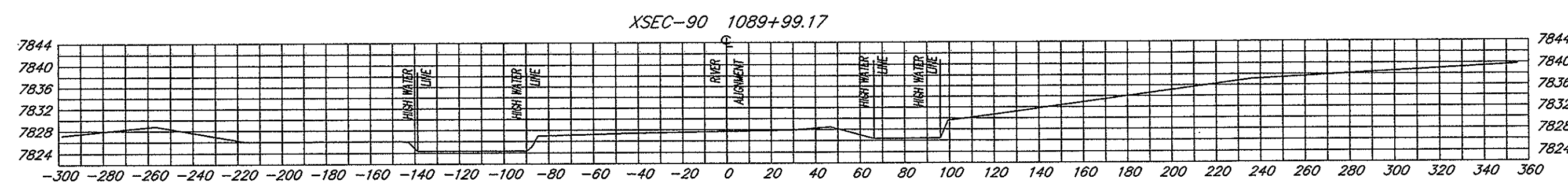
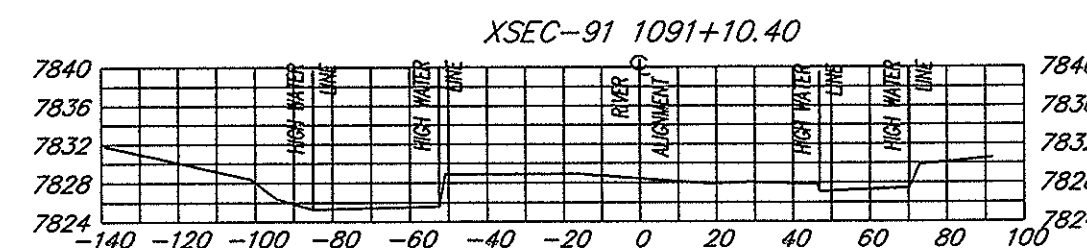
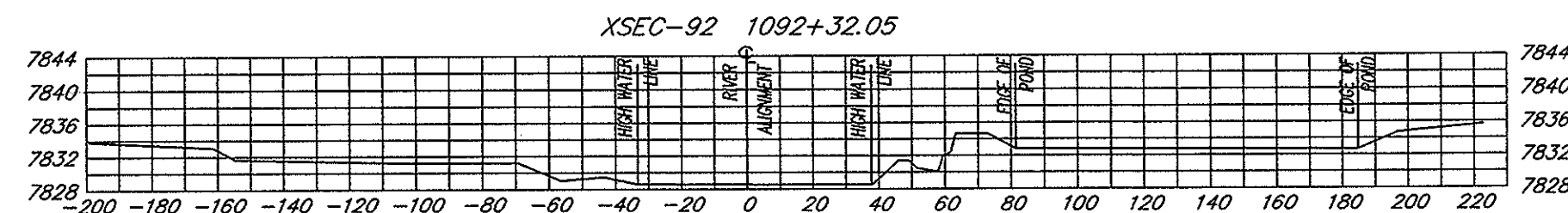
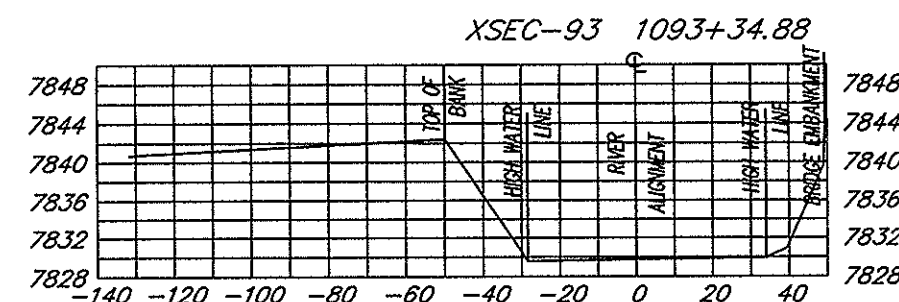
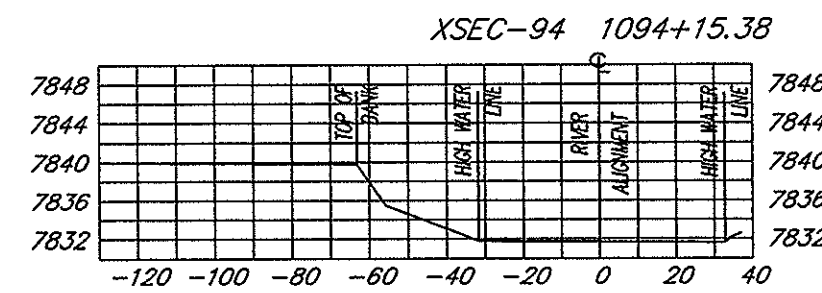
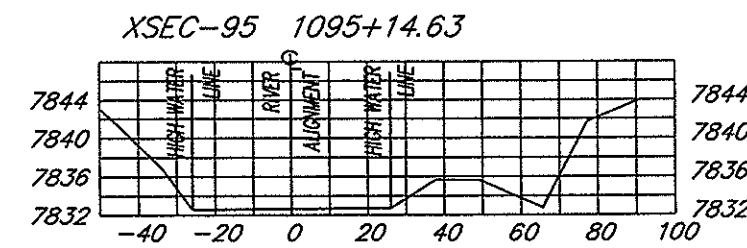
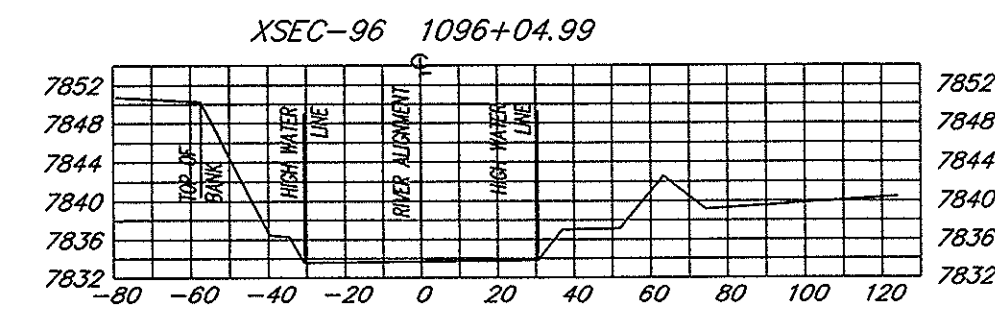
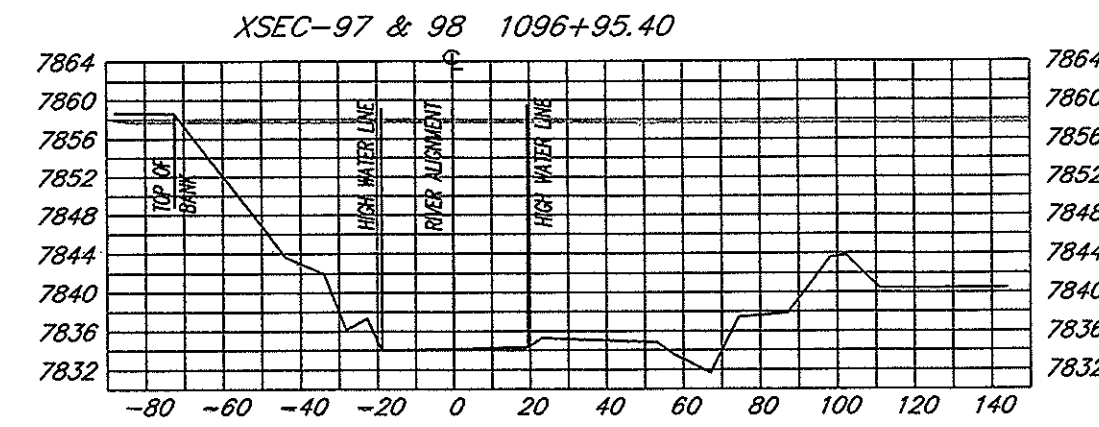
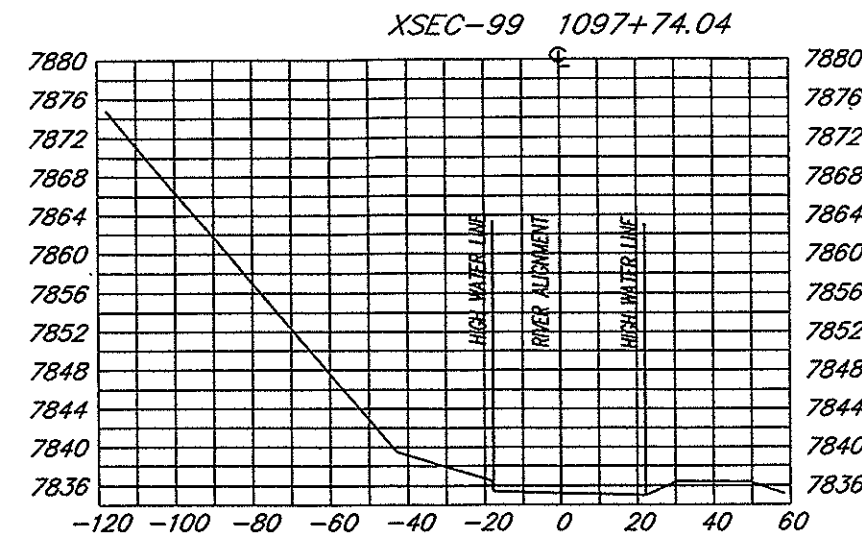
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ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 15 OF 18



SCALES

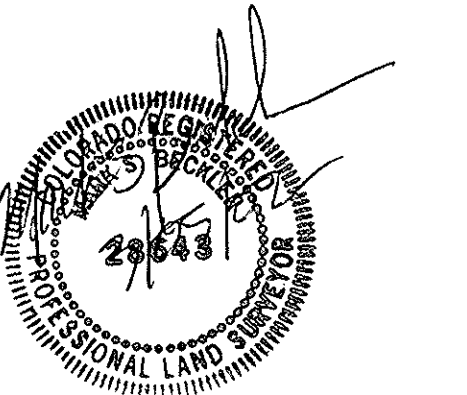
HORIZONTAL 1"=50'
VERTICAL 1"=20'

SOPRIS ENGINEERING - LLC

CIVIL CONSULTANTS
502 MAIN STREET, SUITE A3
CARBONDALE, COLORADO 81623
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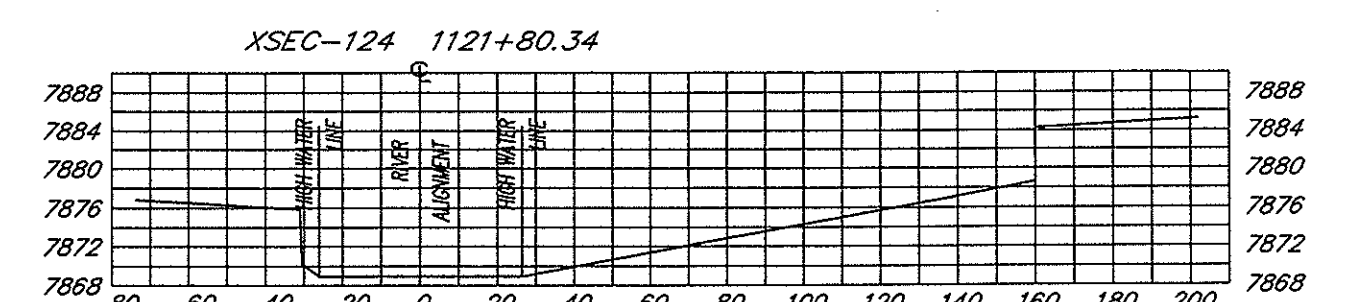
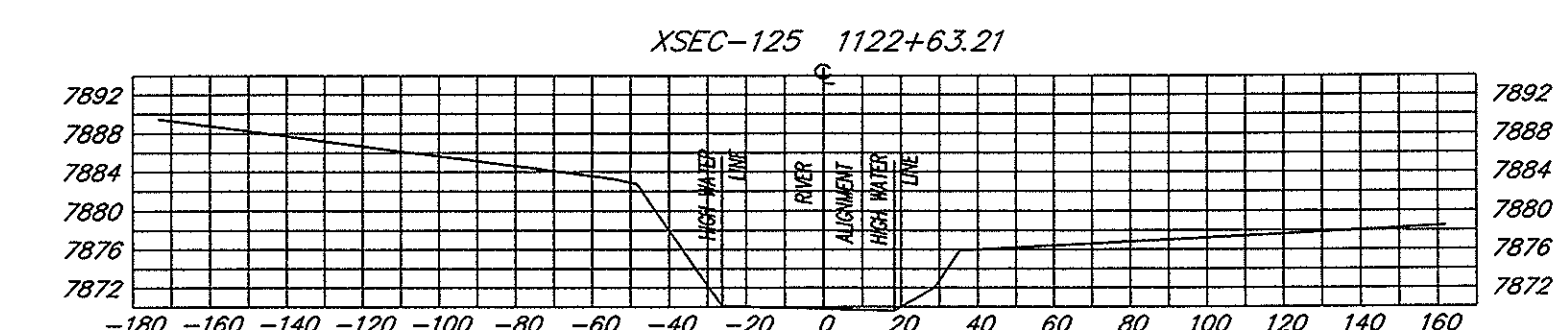
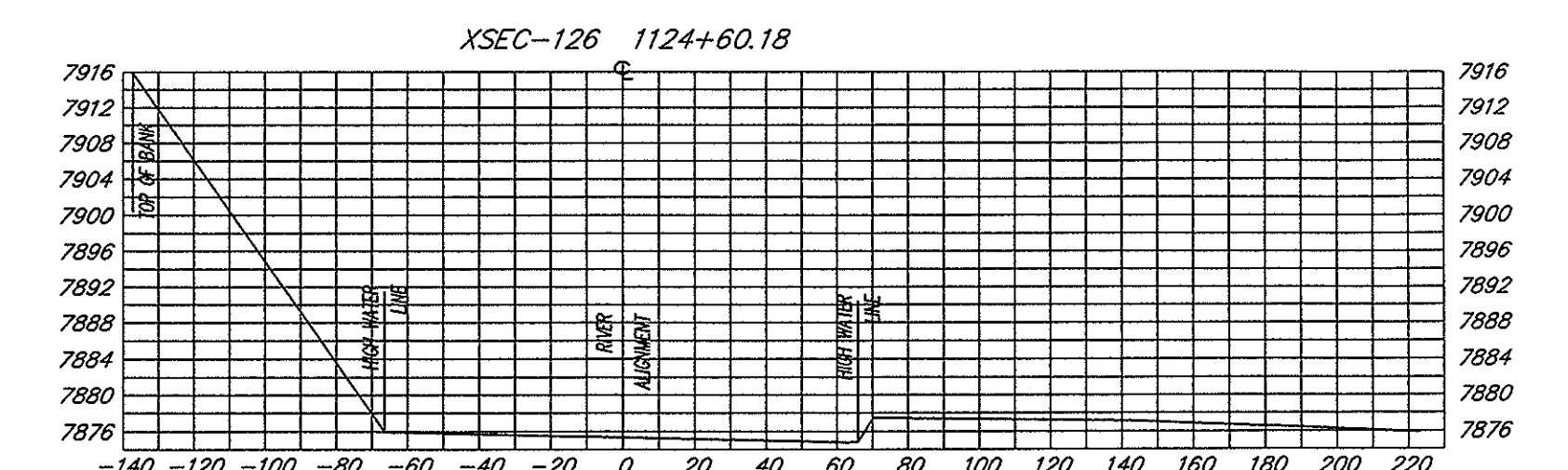
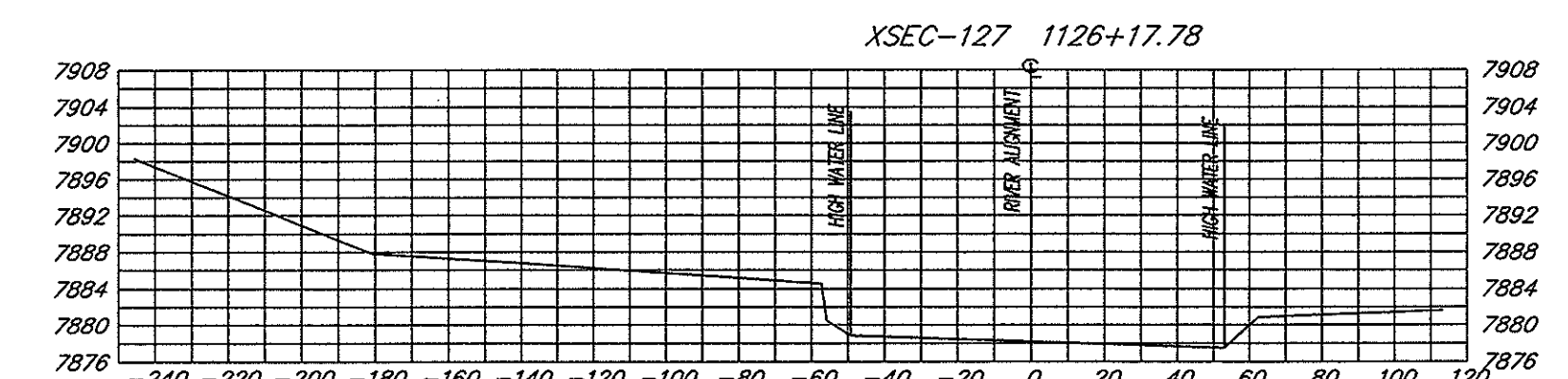
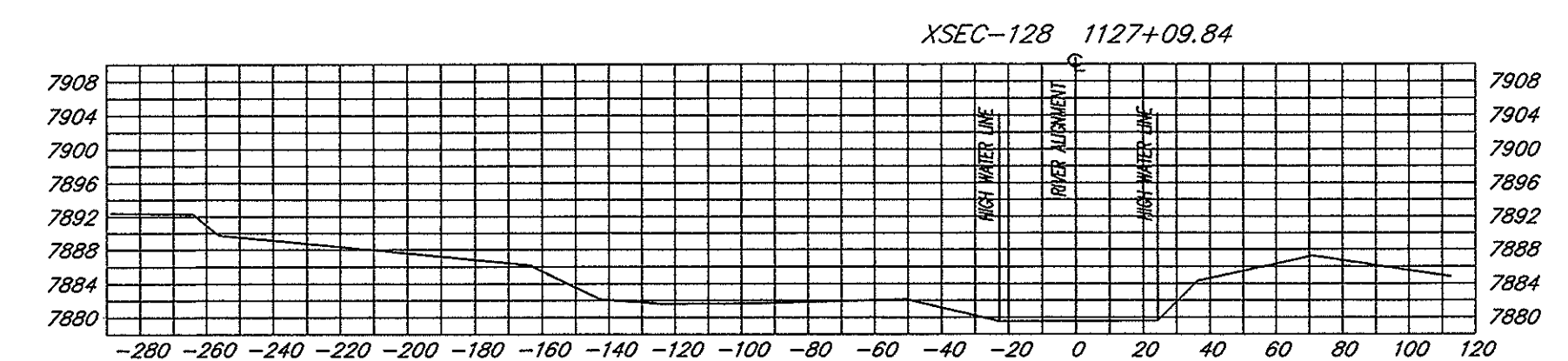
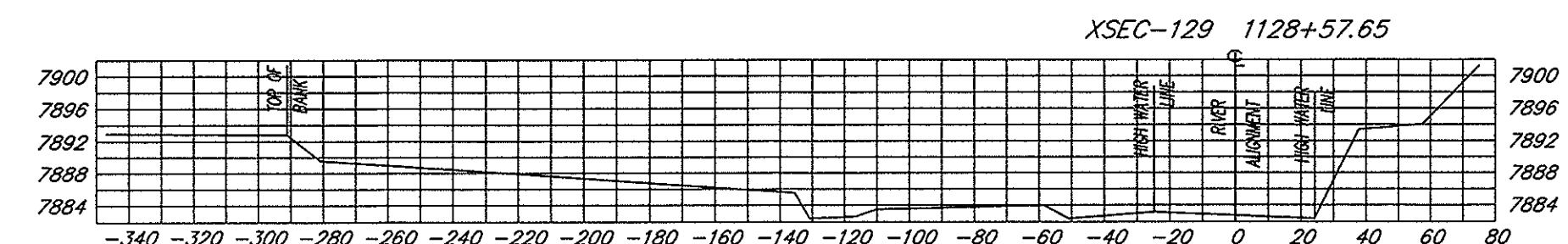
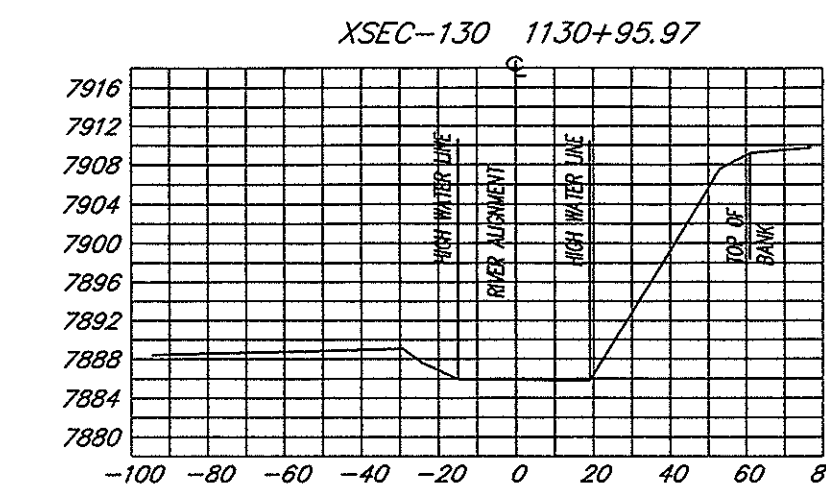
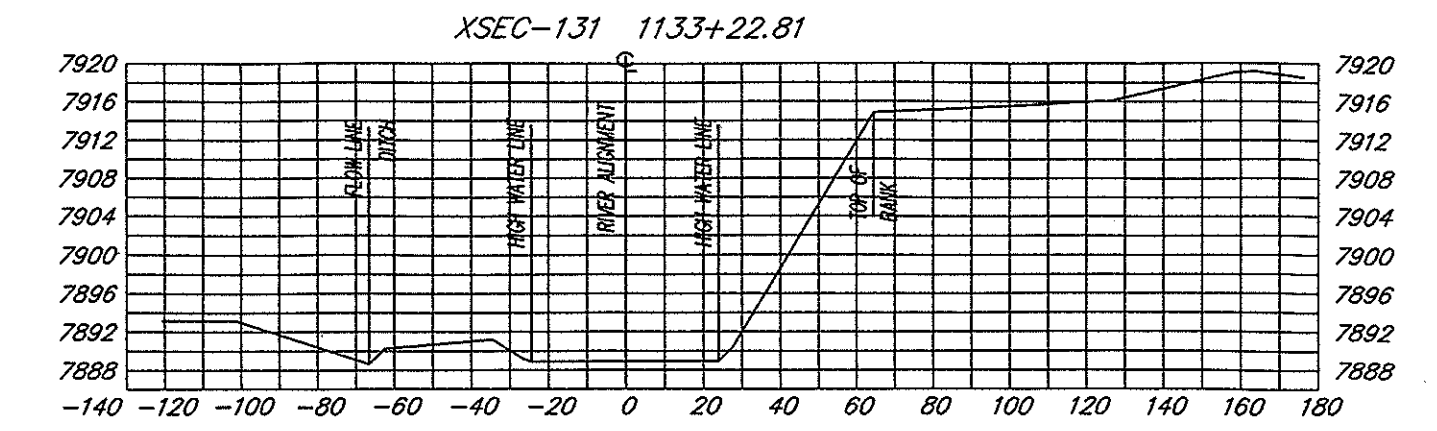
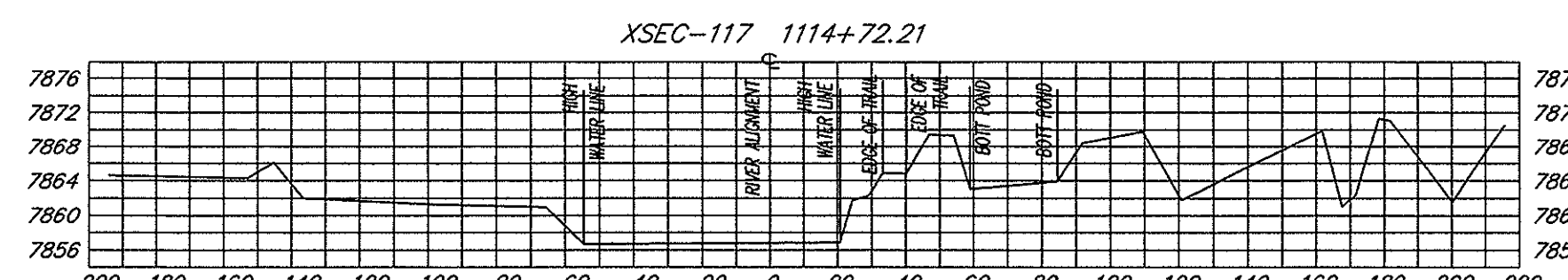
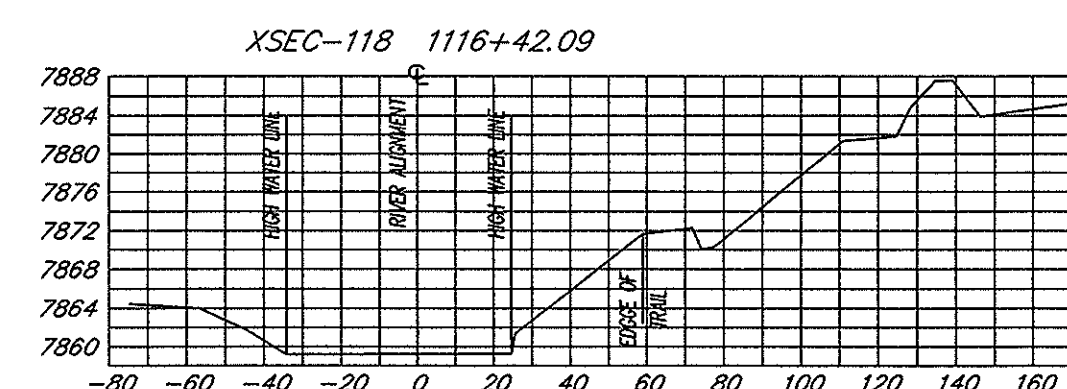
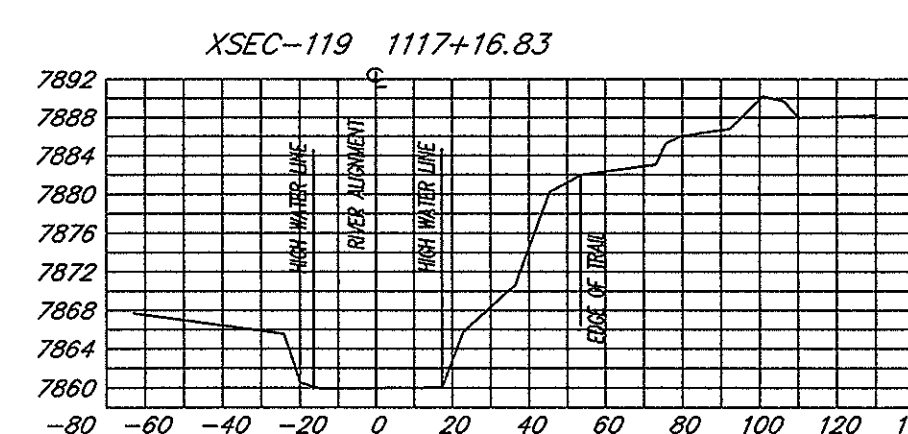
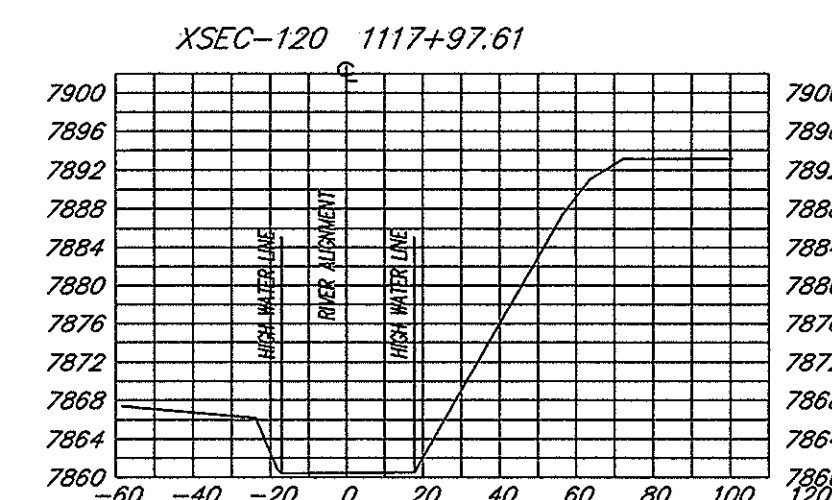
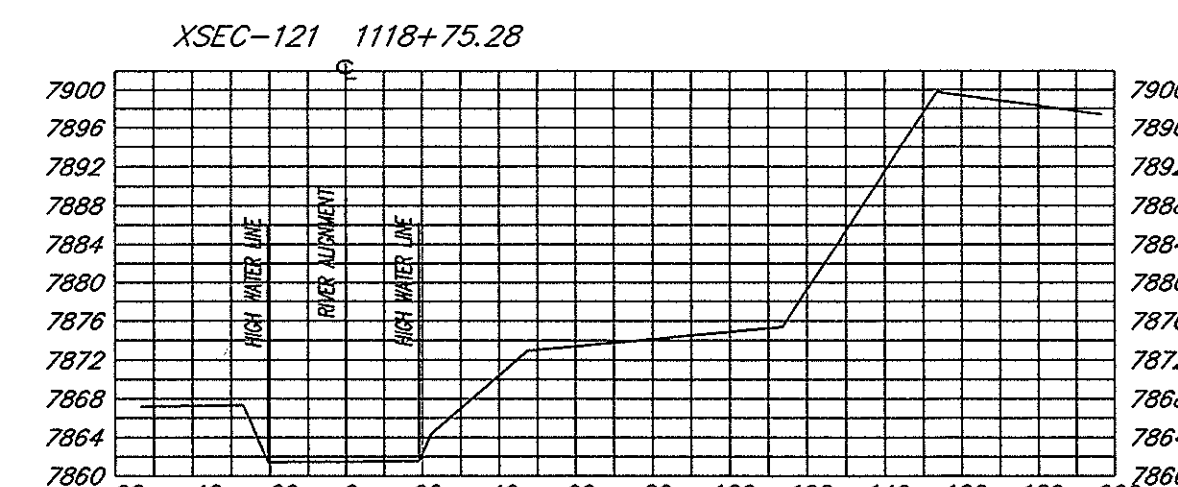
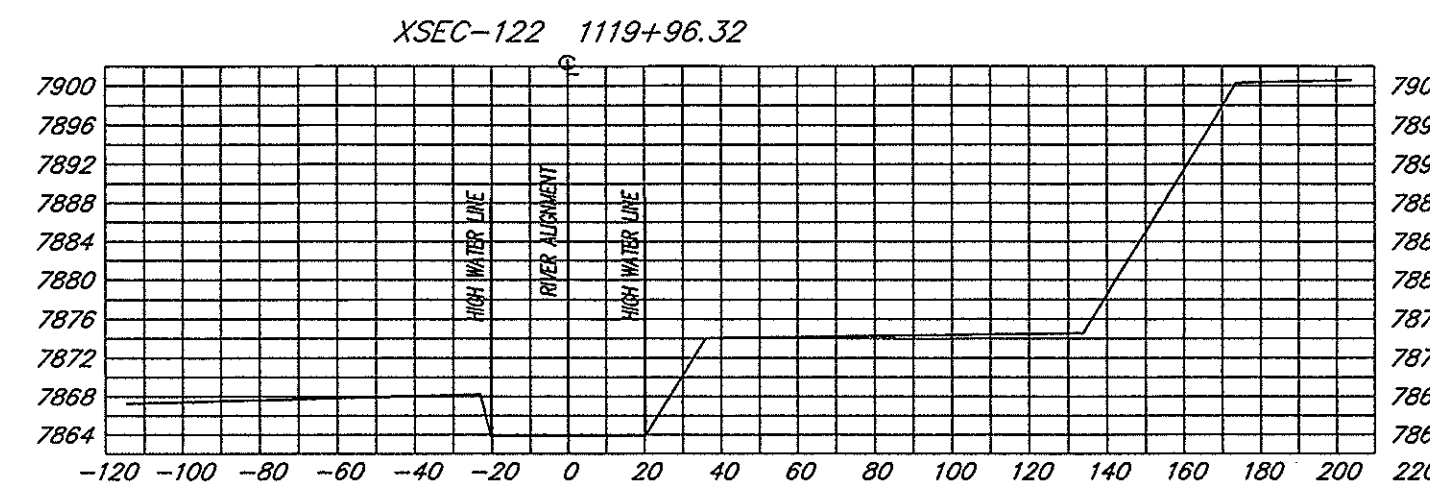
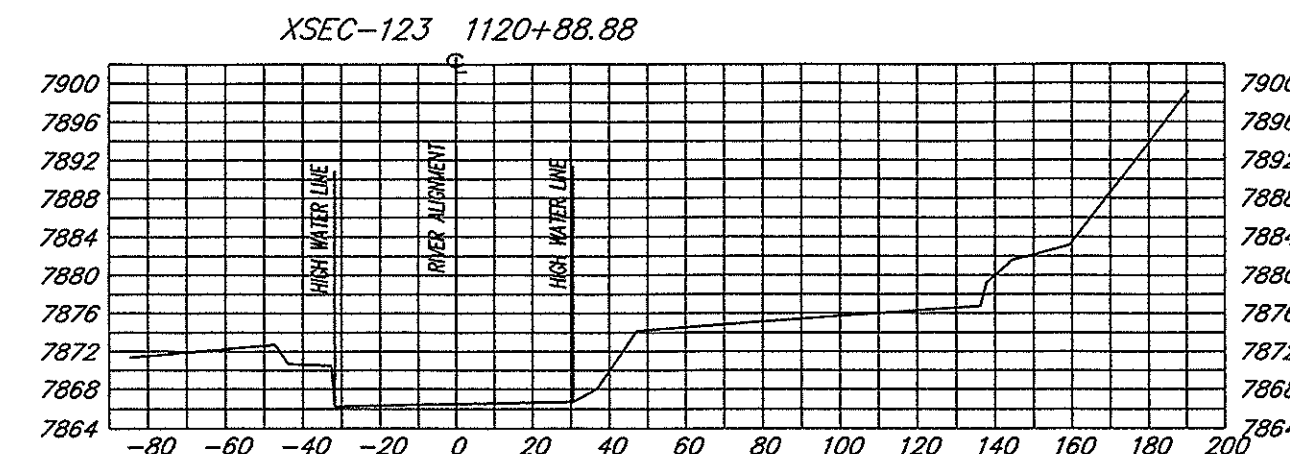
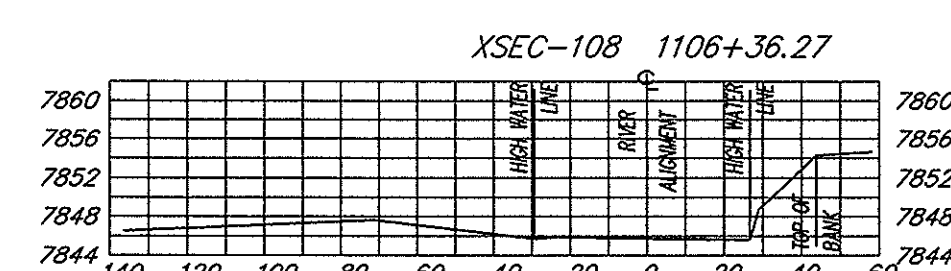
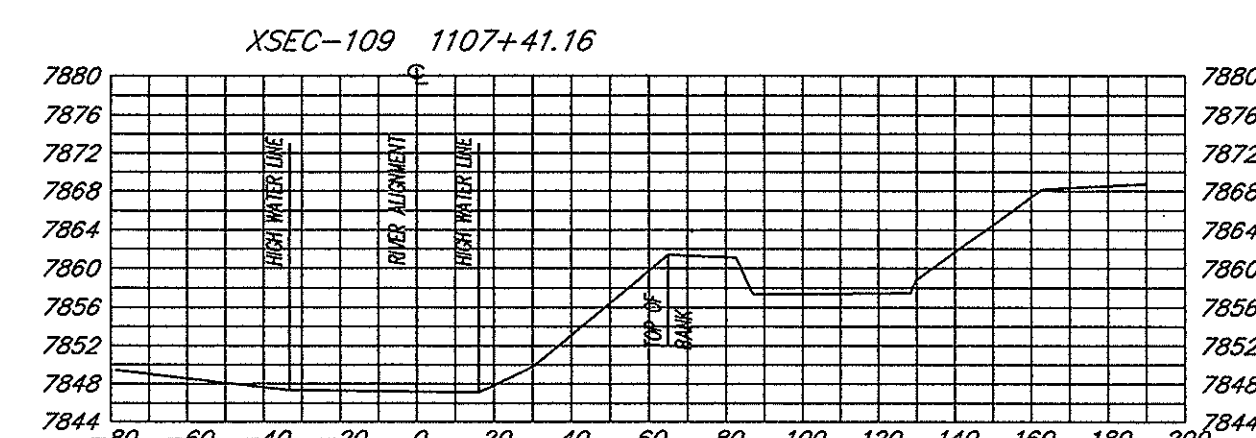
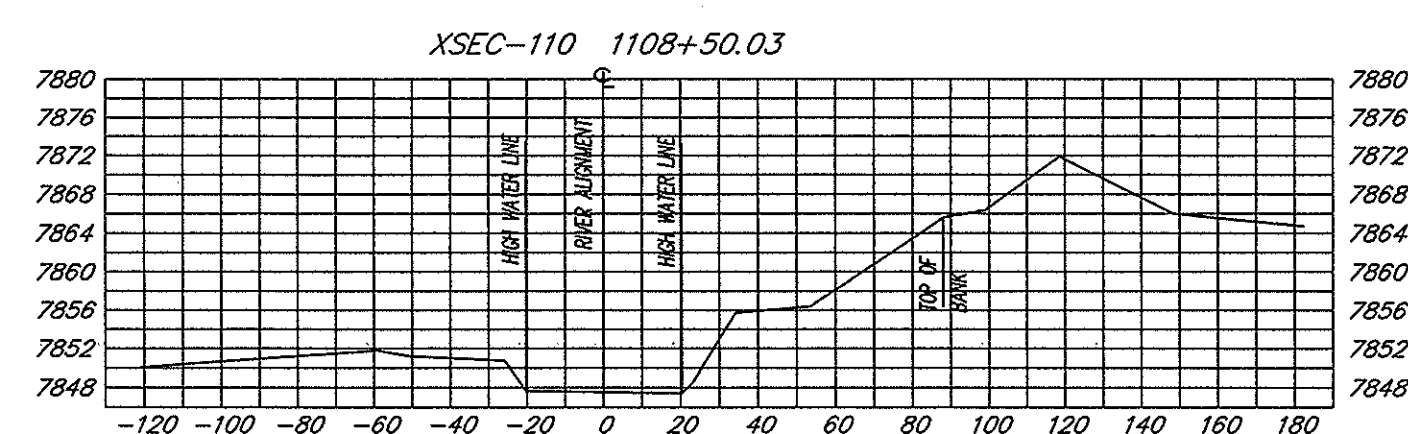
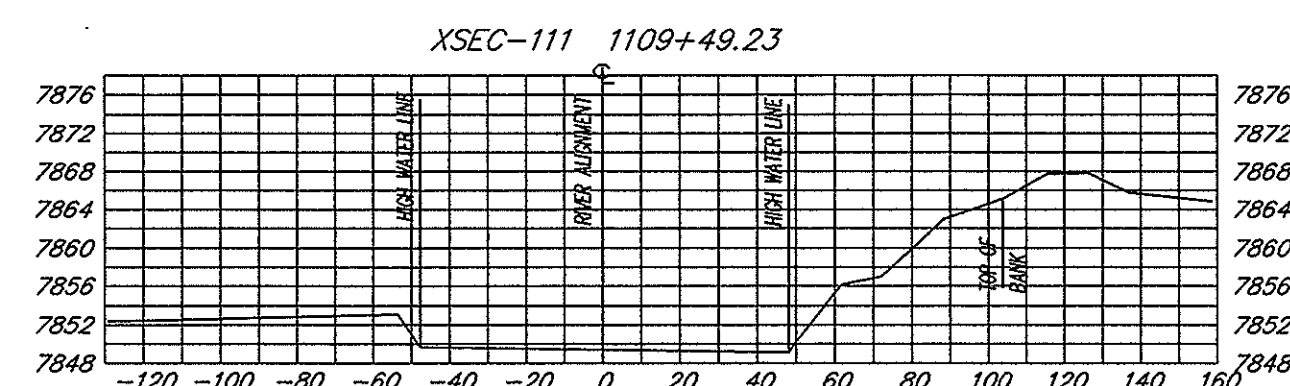
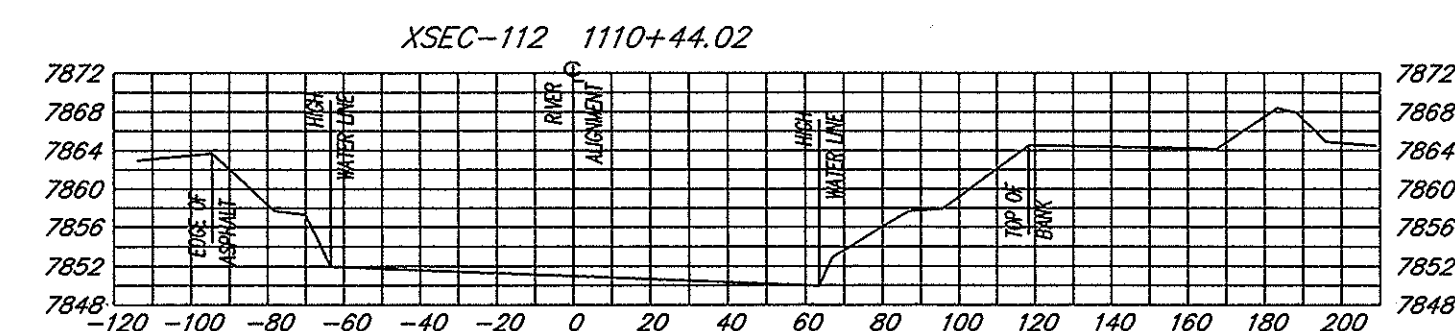
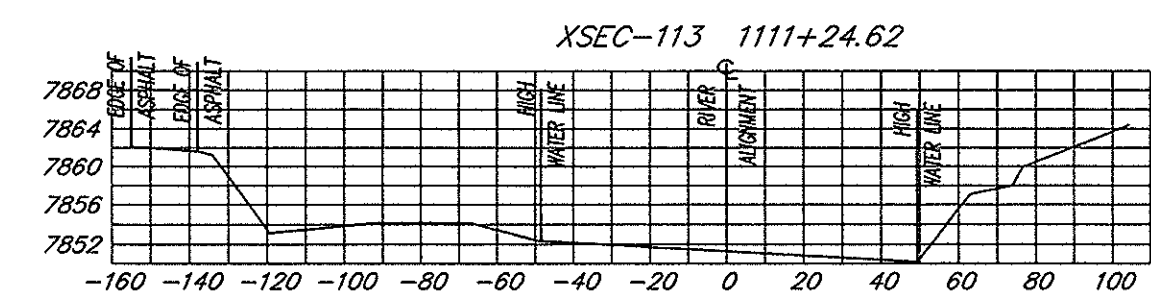
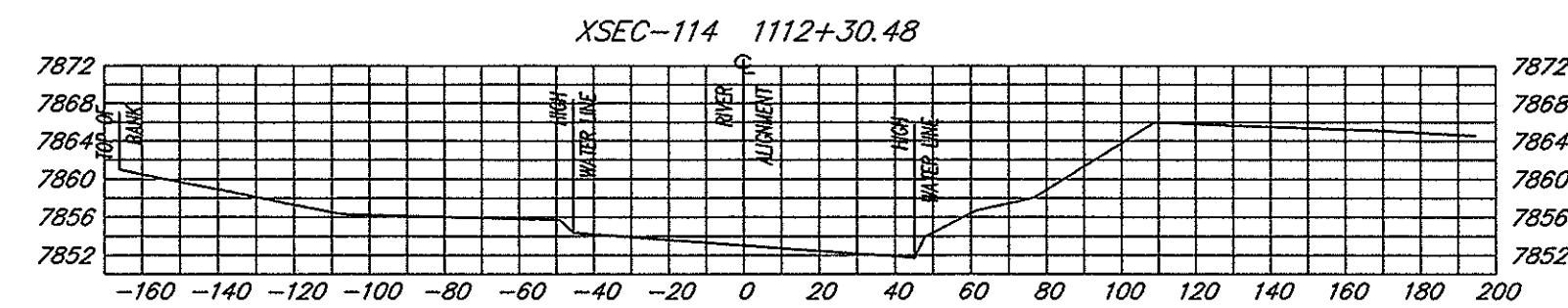
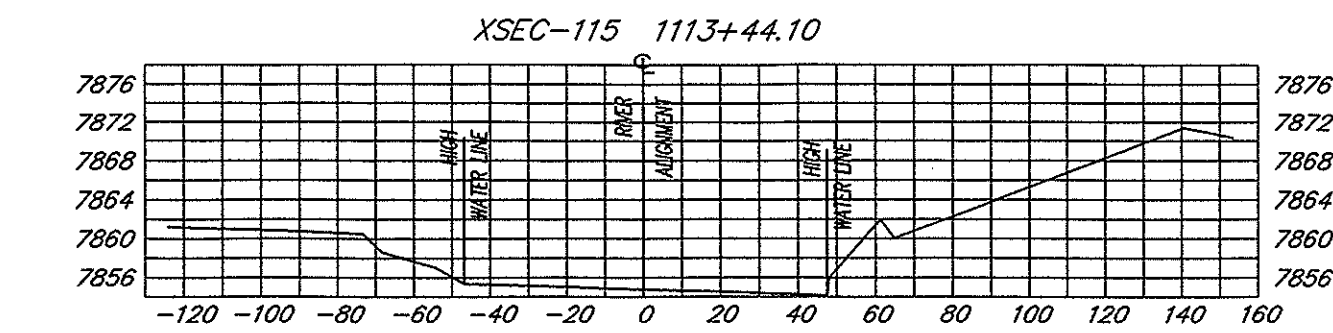
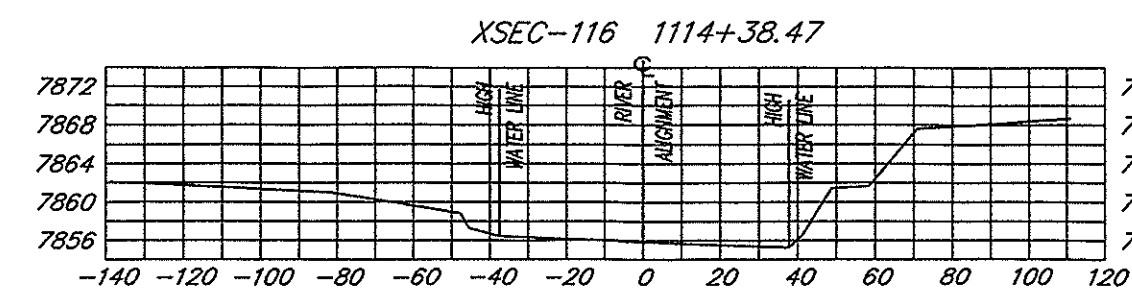


ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 16 OF 18

PLANNING REVIEW MAP OF:



SOPRIS ENGINEERING - LLC

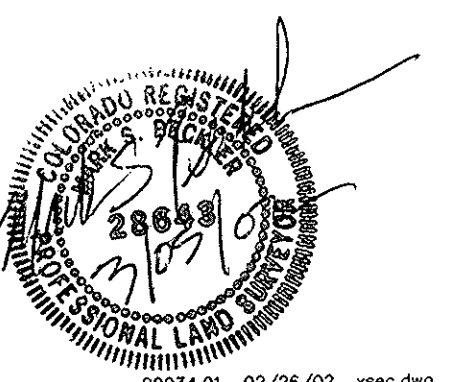
CIVIL CONSULTANTS
502 MAIN STREET, SUITE A3
CARBONDALE, COLORADO 81623
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SCALES

HORIZONTAL 1"=50'
VERTICAL 1"=20'

SURVEY NOTES:

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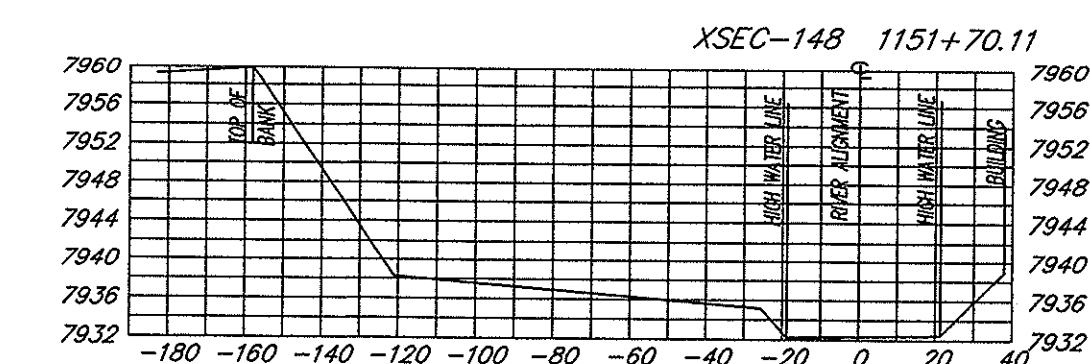
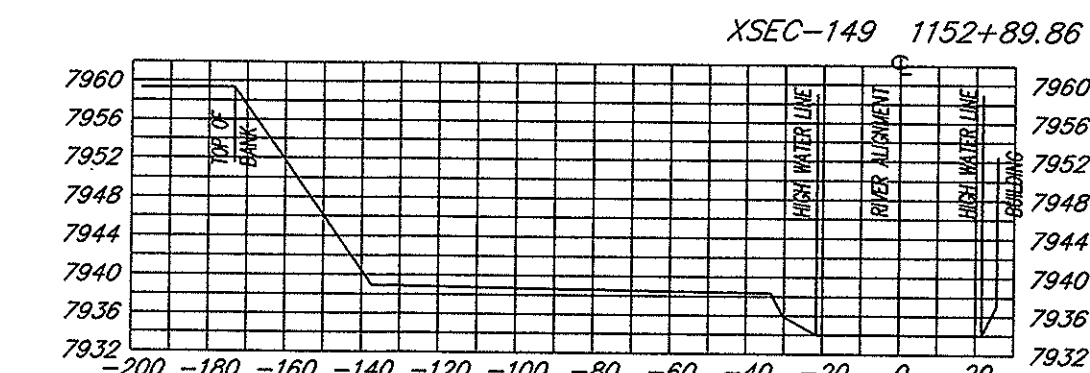
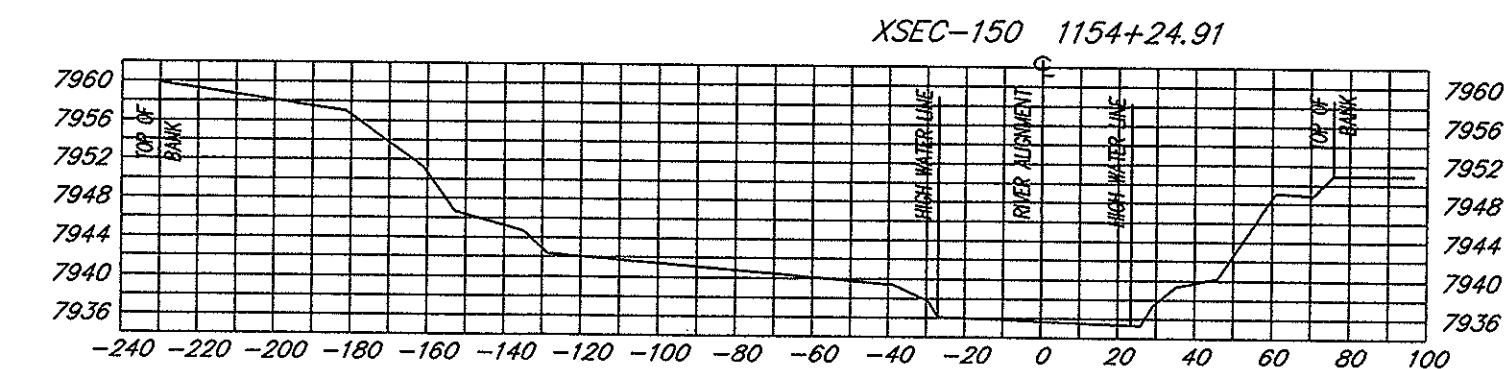
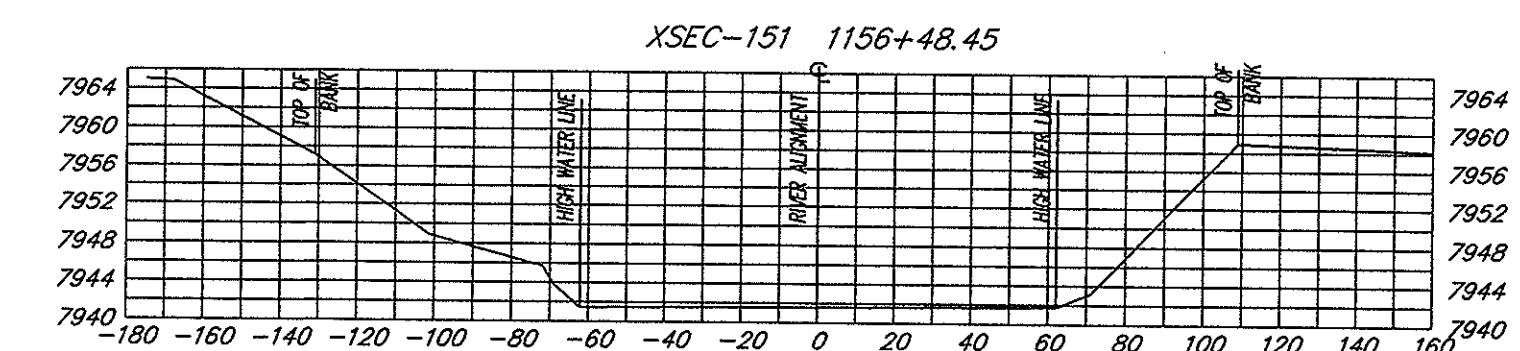
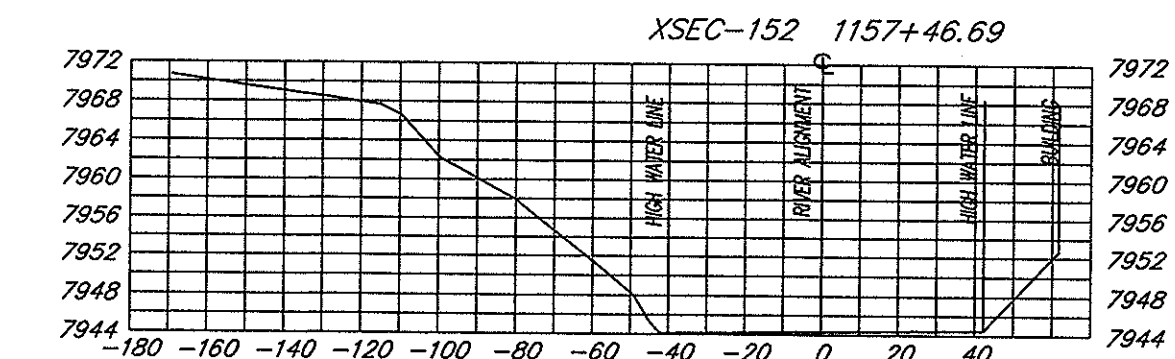
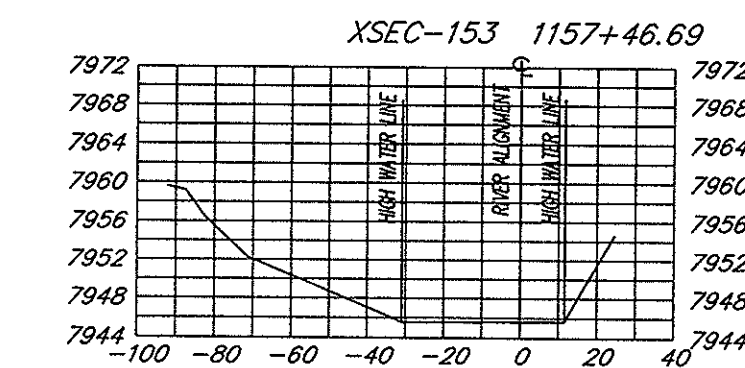
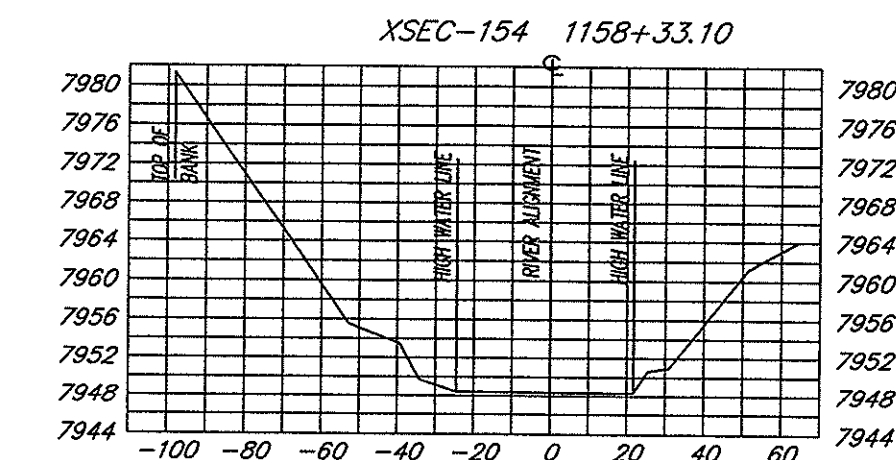
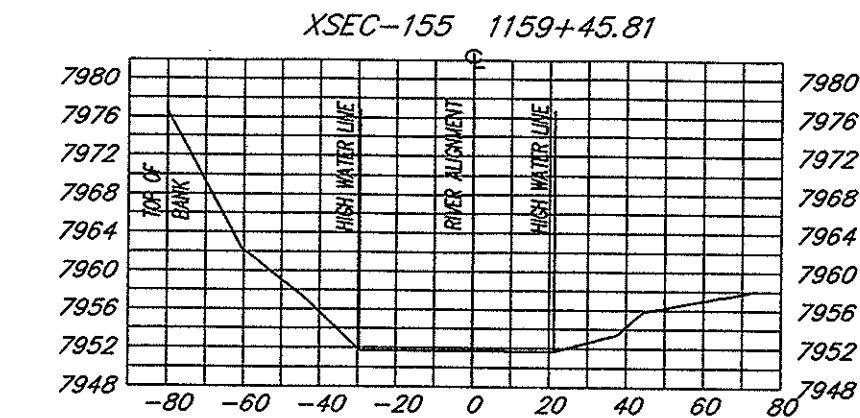
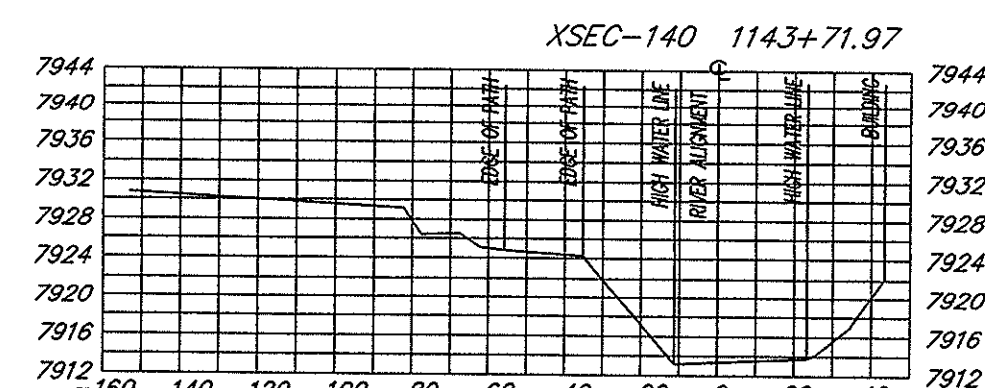
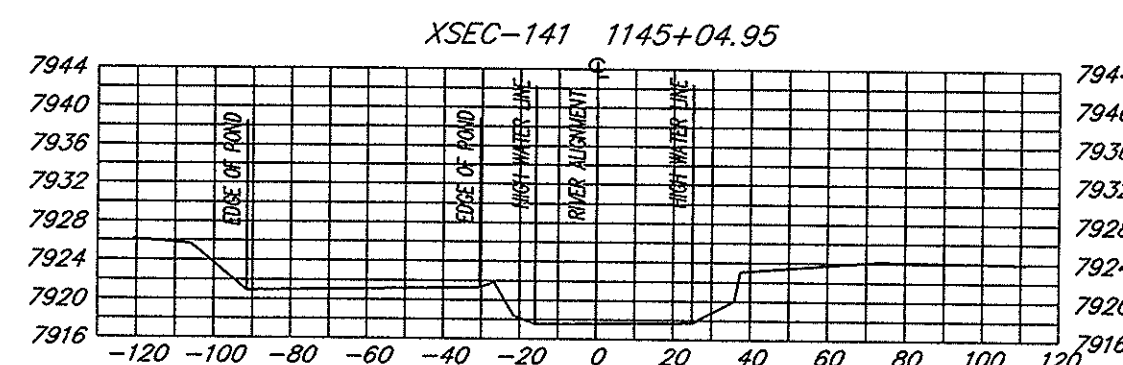
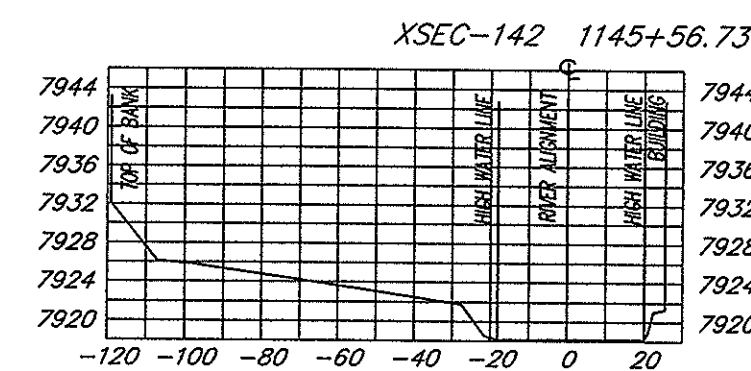
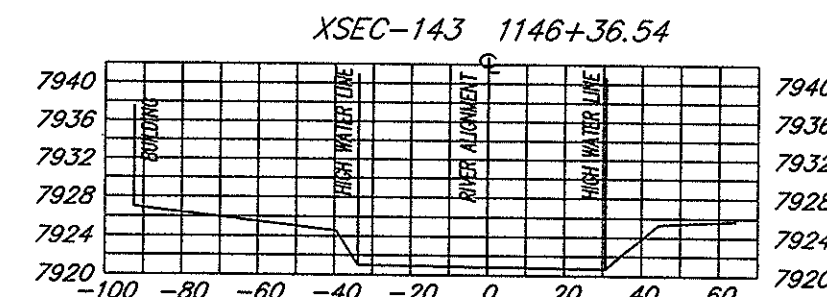
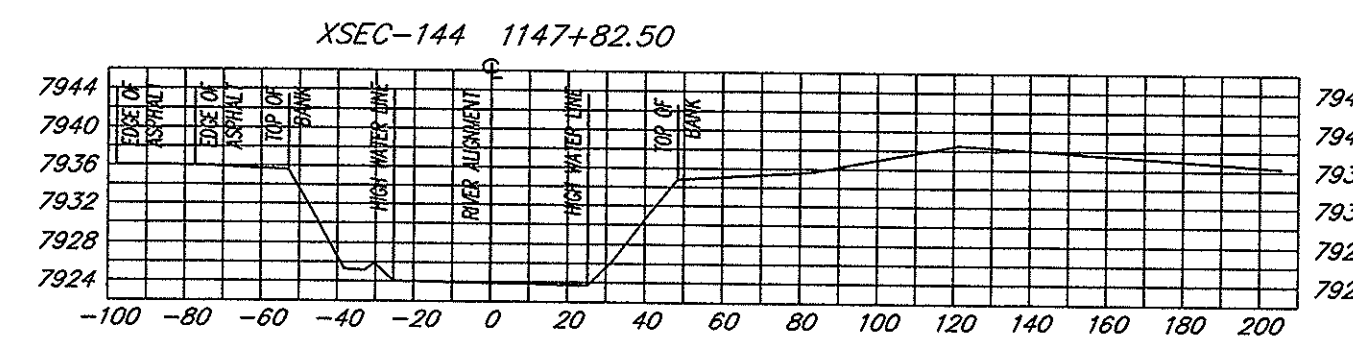
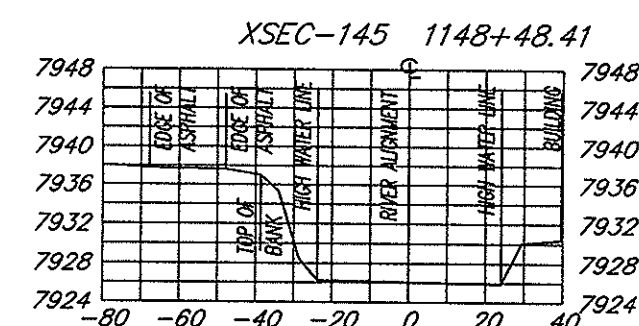
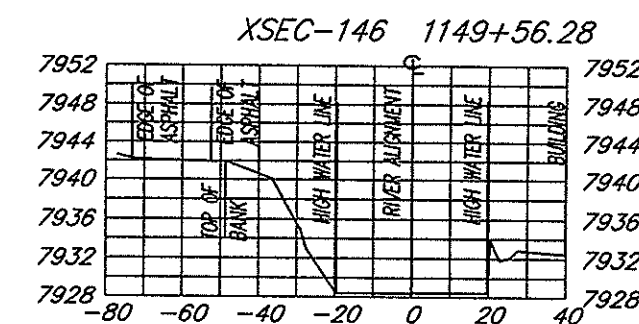
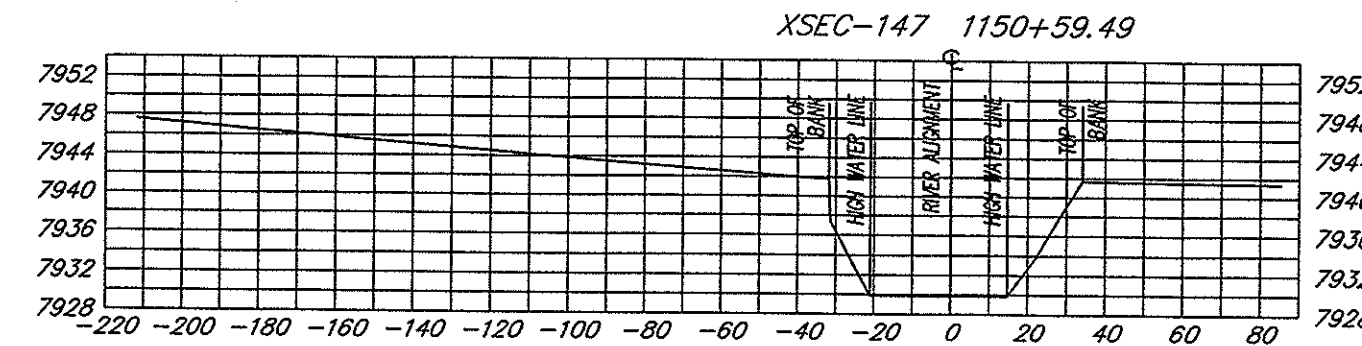
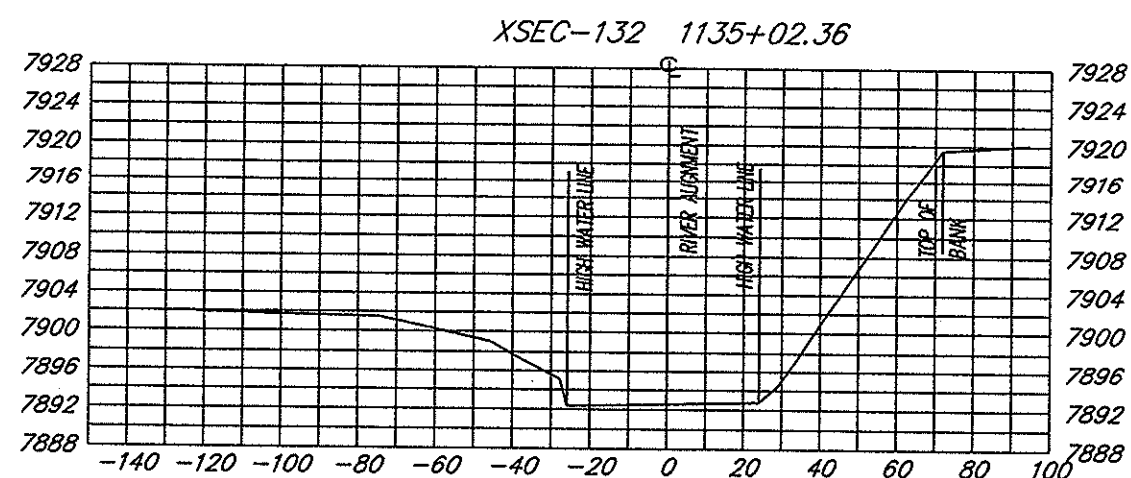
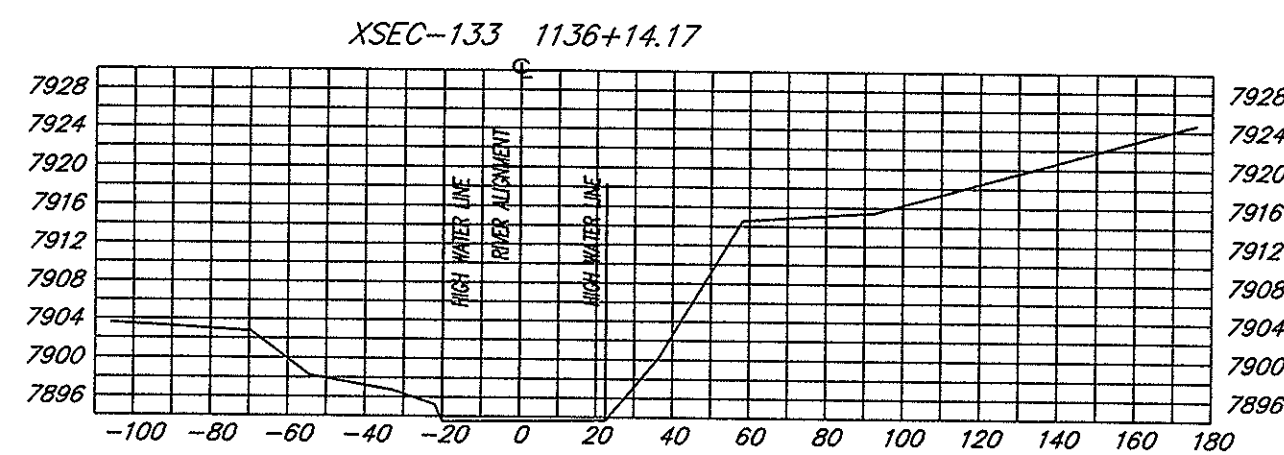
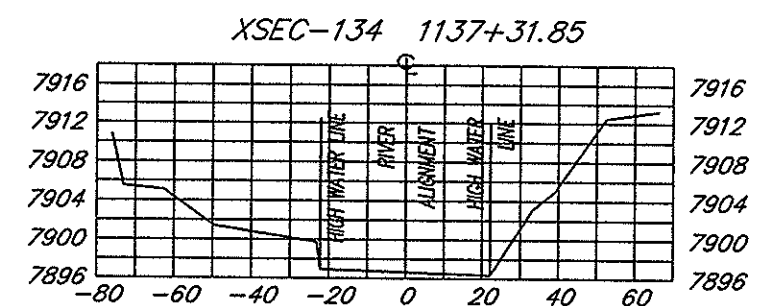
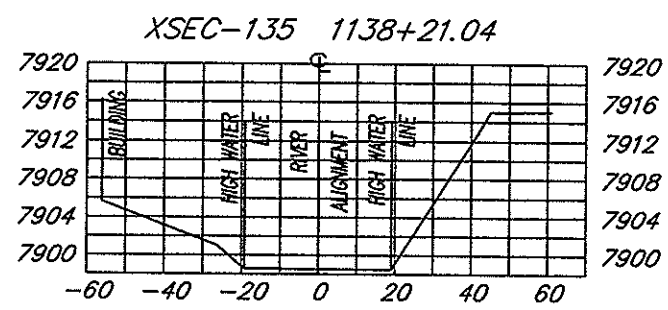
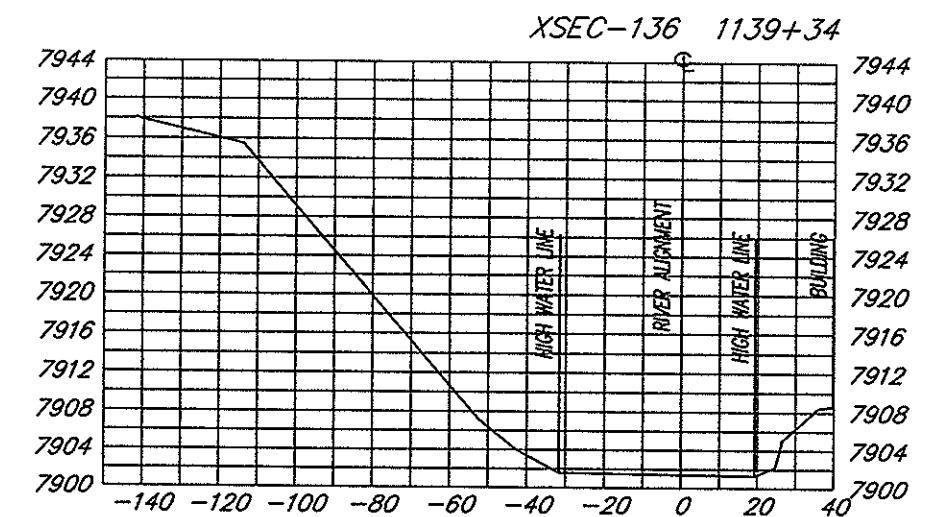
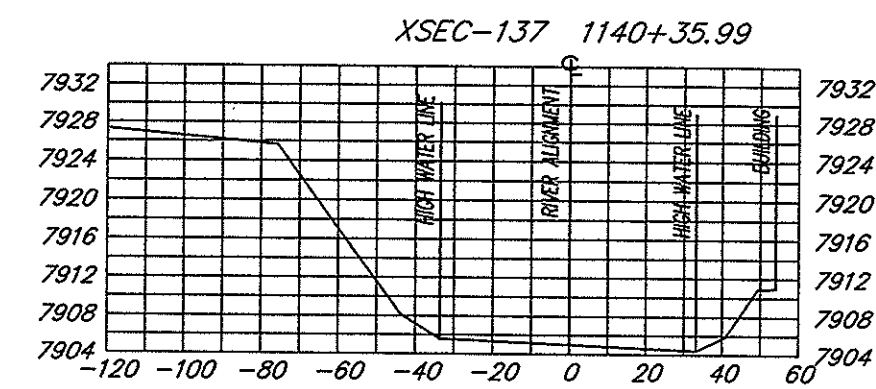
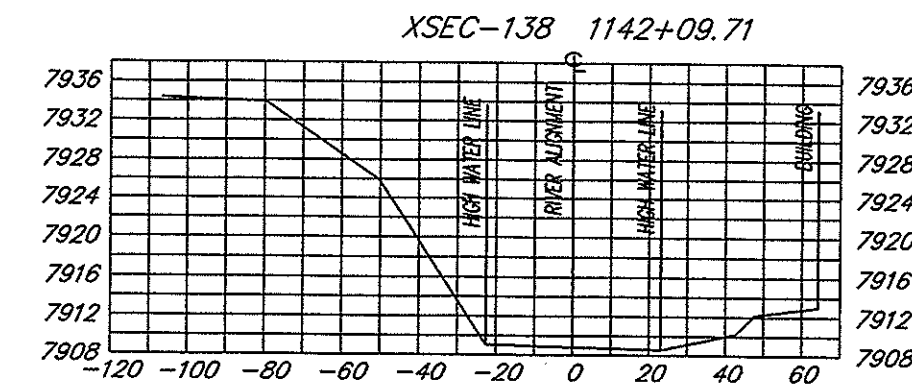
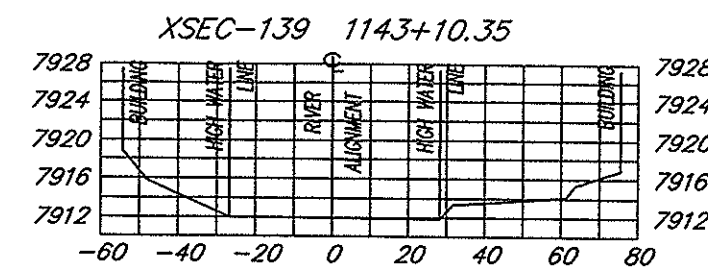


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ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 17 OF 18



SOPRIS ENGINEERING - LLC

SCALES

HORIZONTAL 1"=50'
VERTICAL 1"=20'

CIVIL CONSULTANTS
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CARBONDALE, COLORADO 81623
(970) 704-0311

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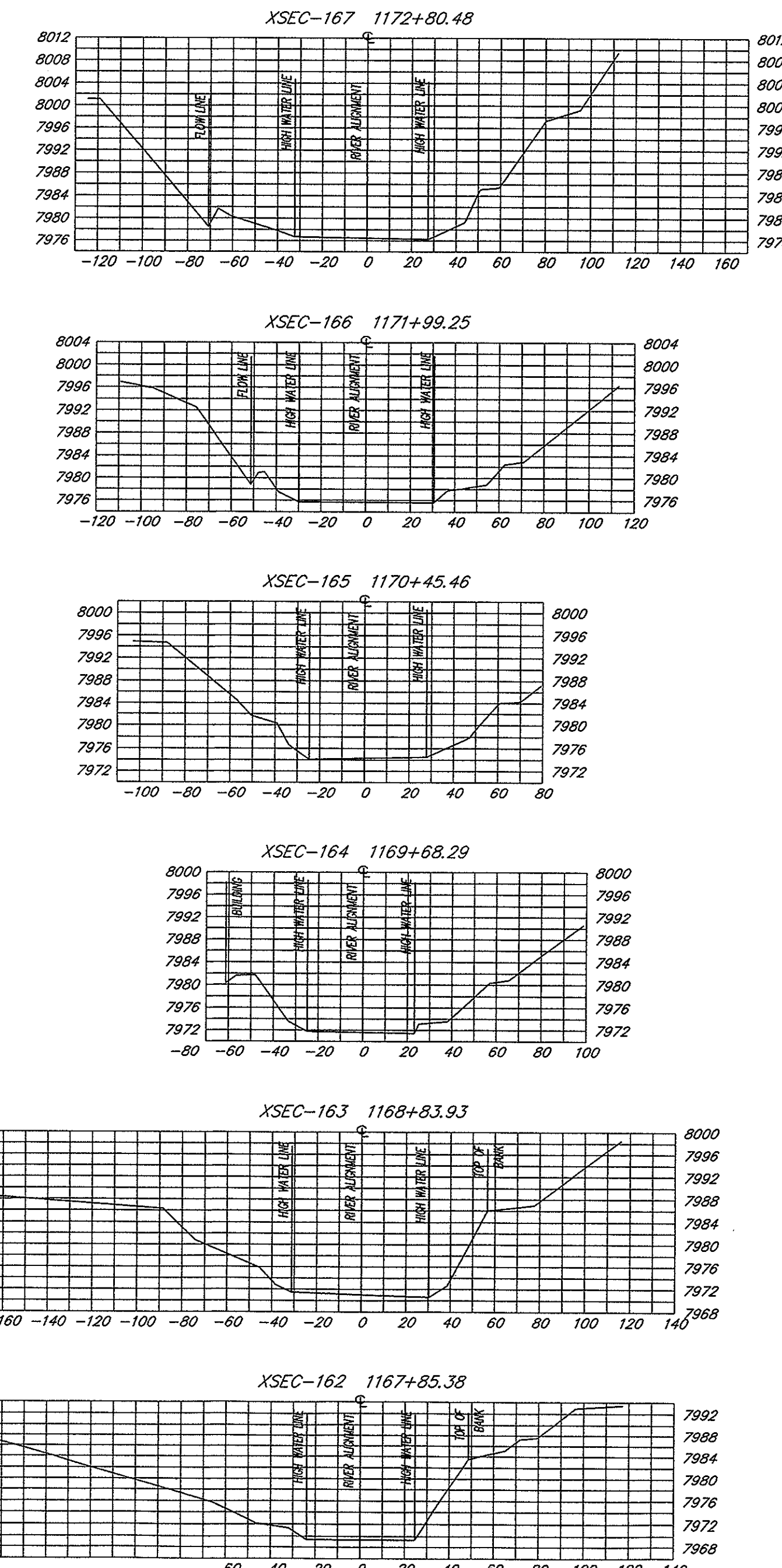
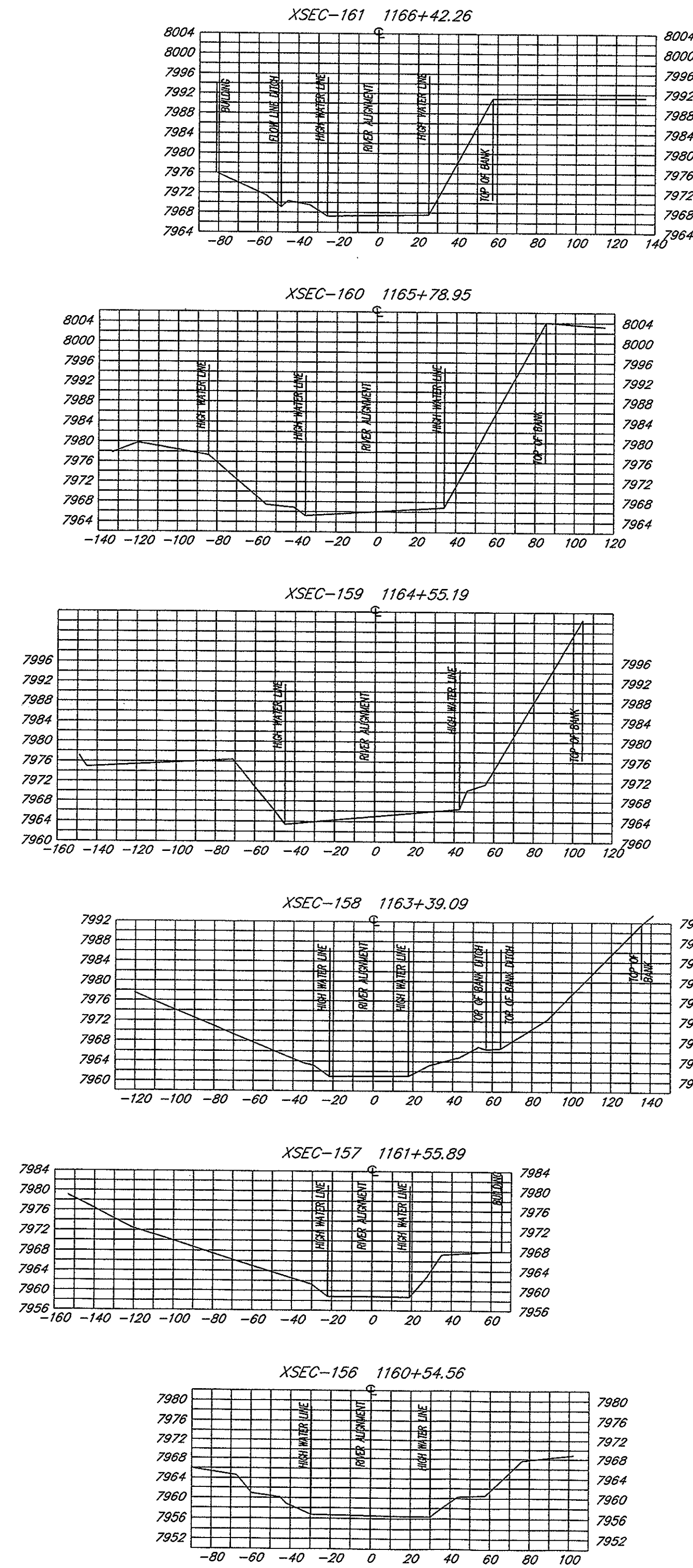
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ROARING FORK RIVER CROSS SECTIONS/STREAM MARGIN REVIEW LINE

CITY OF ASPEN, COUNTY OF PITKIN, STATE OF COLORADO

SHEET 18 OF 18



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