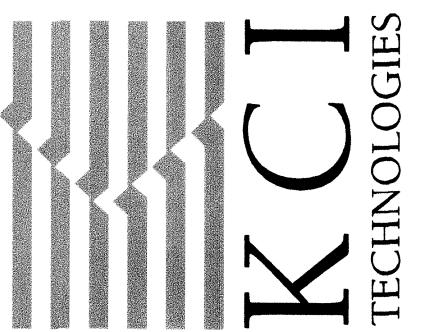


10 NORTH PARK DRIVE
 HUNT VALLEY, MD 21030
 PHONE: (410) 316-7800
 FAX: (410) 316-7817
 WWW.KCI.COM



MEADOWBROOK PARK
 STREAM RESTORATION PROJECT

CAPITAL PROJECT D-1158
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 STORMWATER MANAGEMENT DIVISION
 6751 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046

AS-BUILT
 CROSS
 SECTIONS

SCALE:	HOR. 1" = 10'
	VERT. 1" = 5'
DATE:	APRIL 2012
KCI JOB NO.:	01-081795.43
CAPITAL PROJECT NO.:	D1158
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

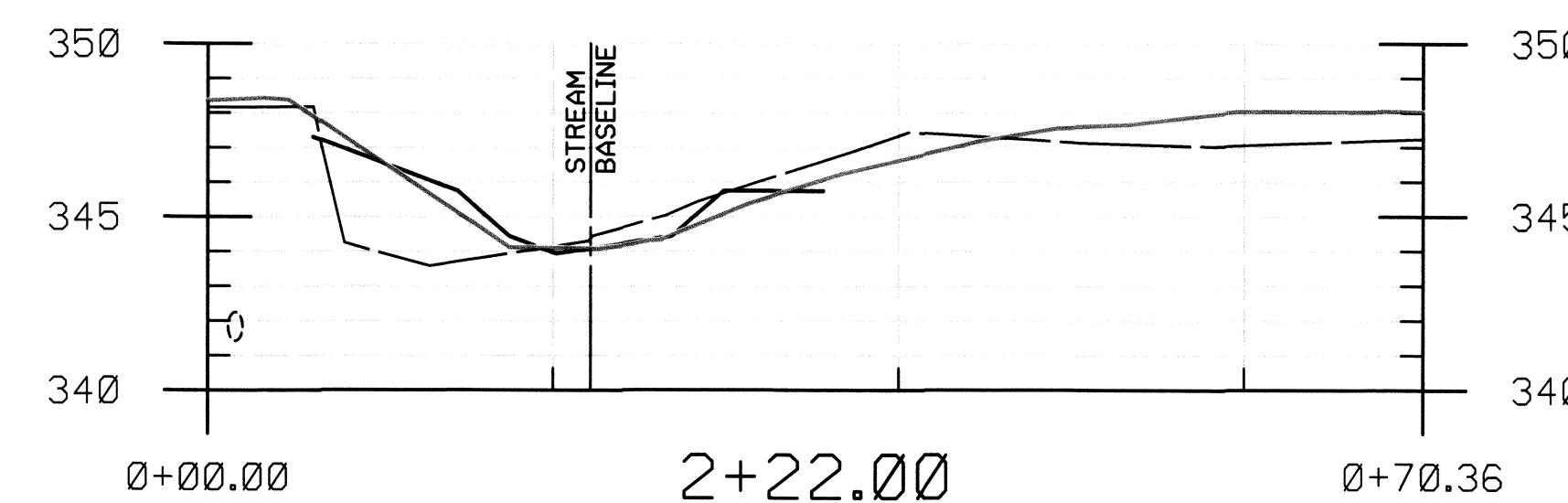
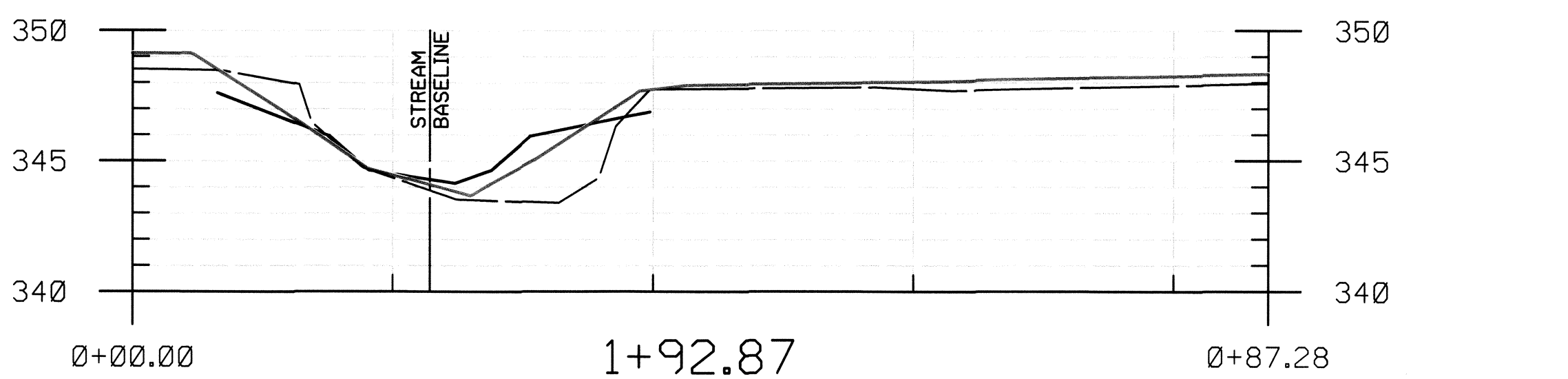
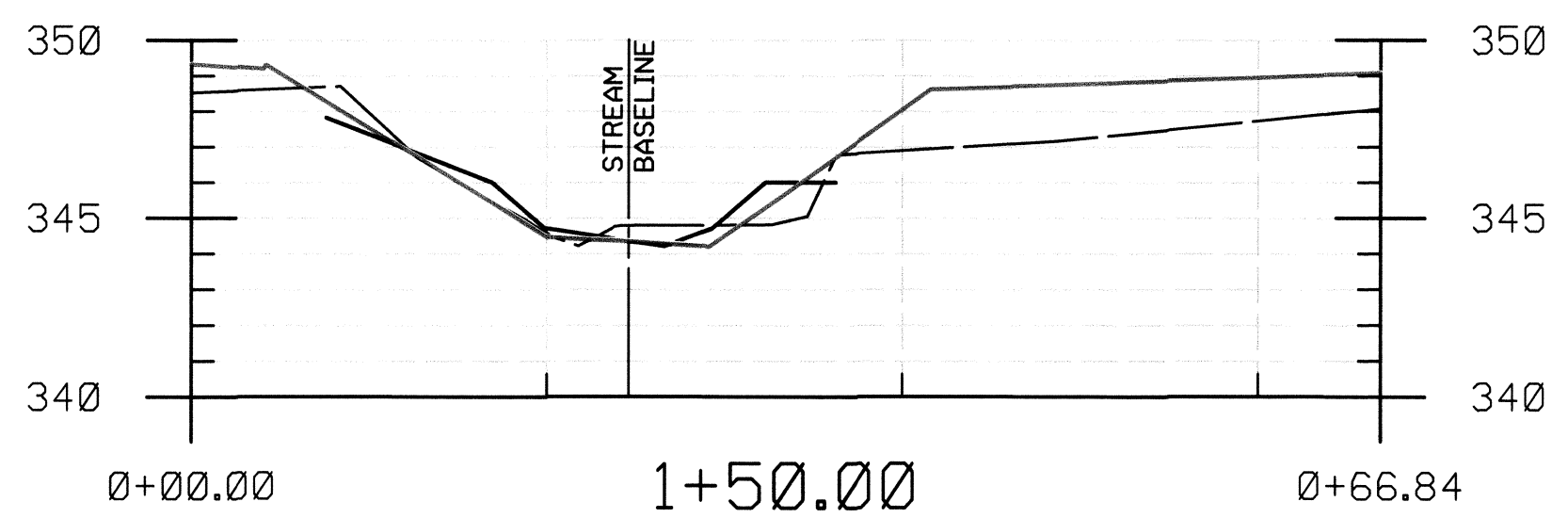
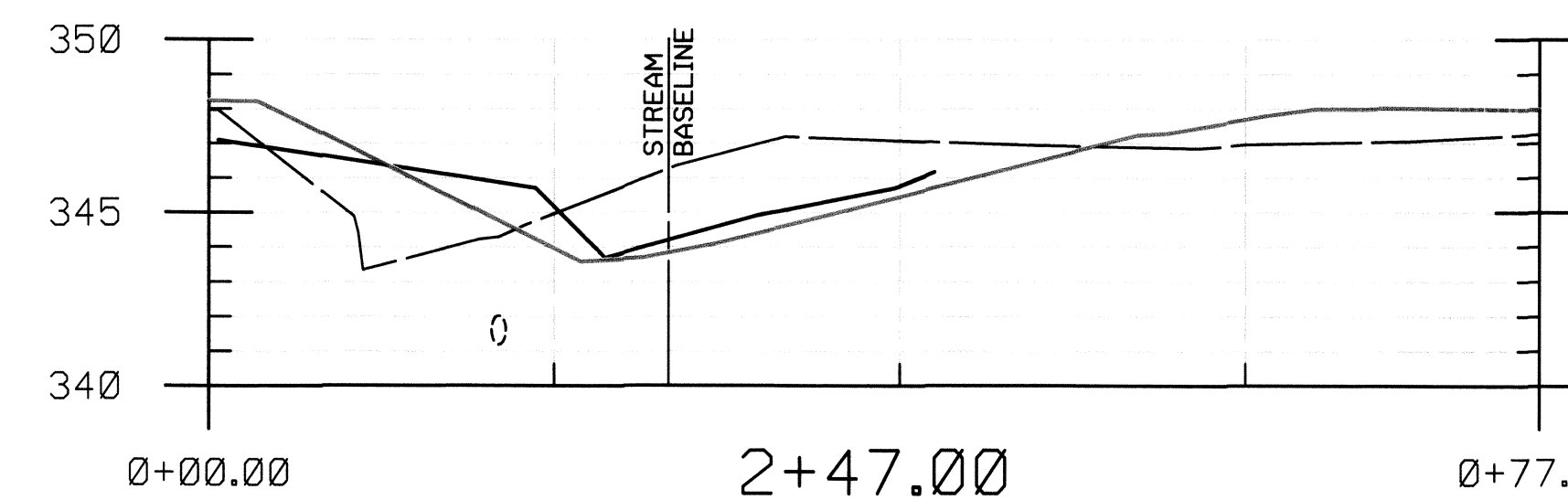
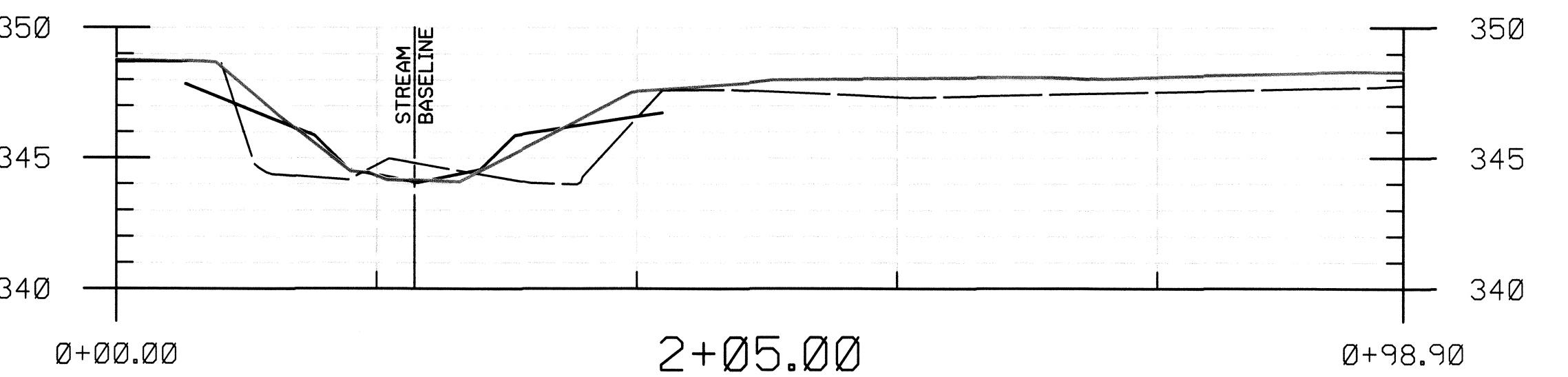
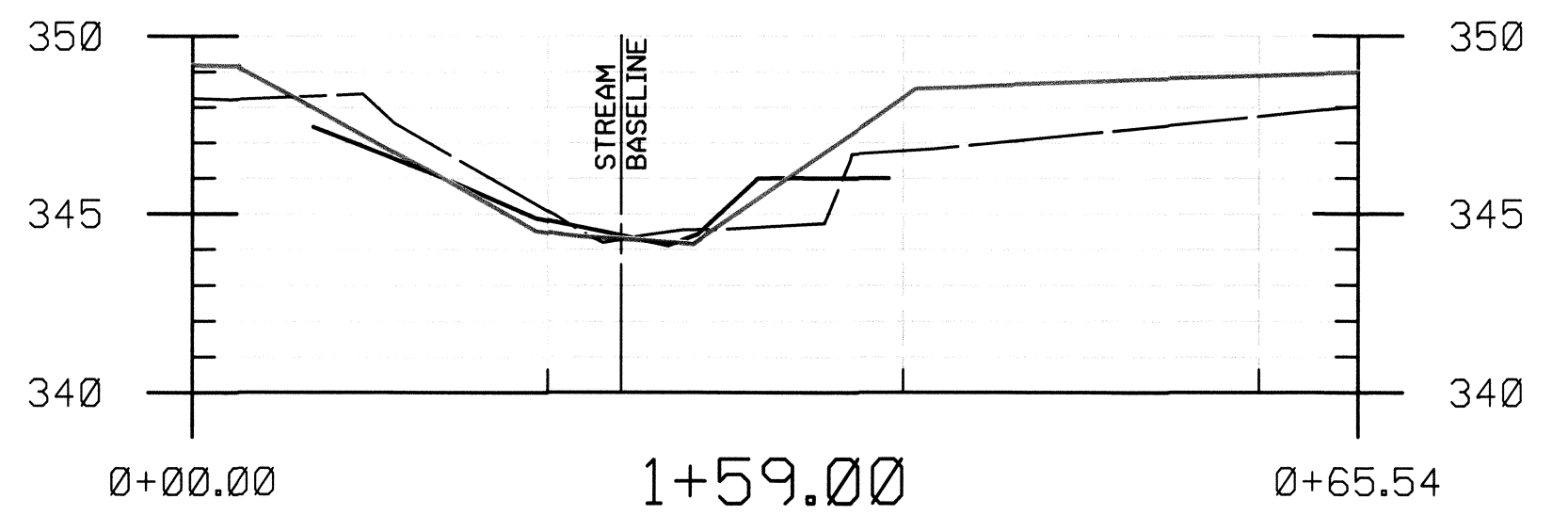
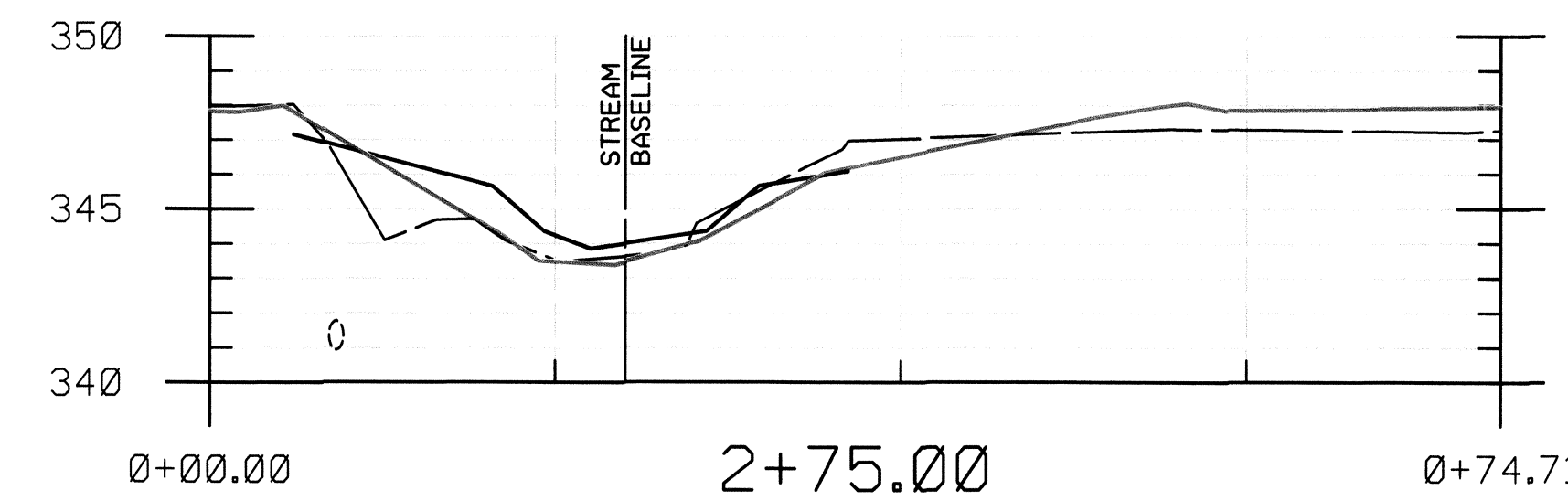
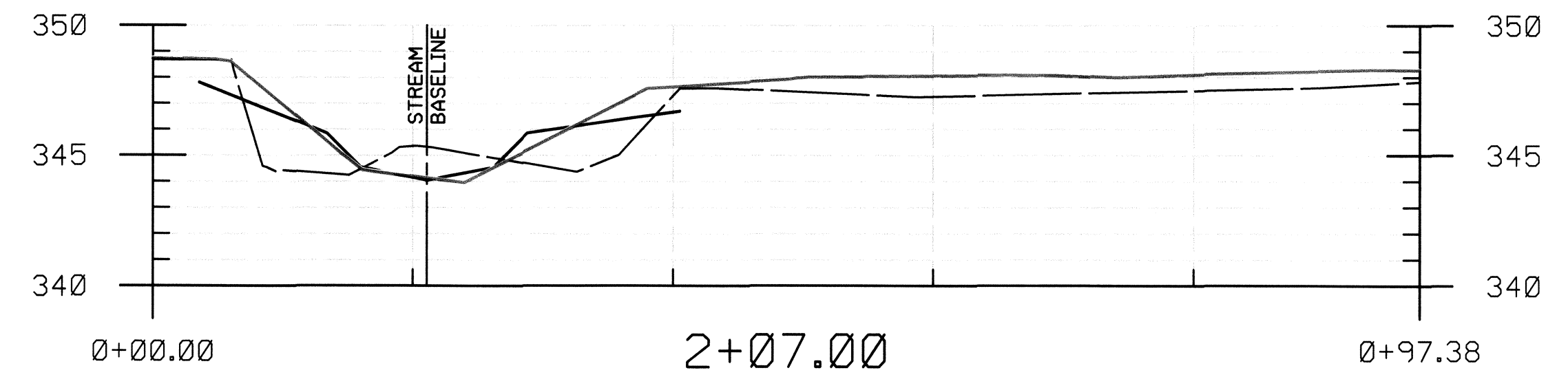
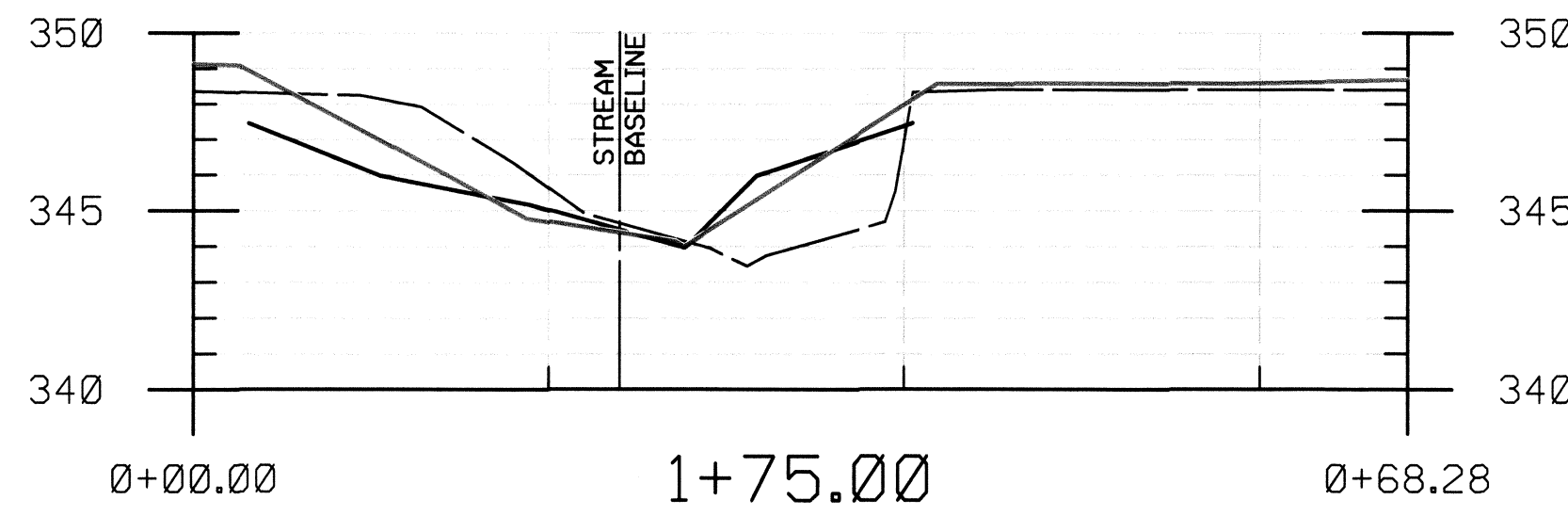
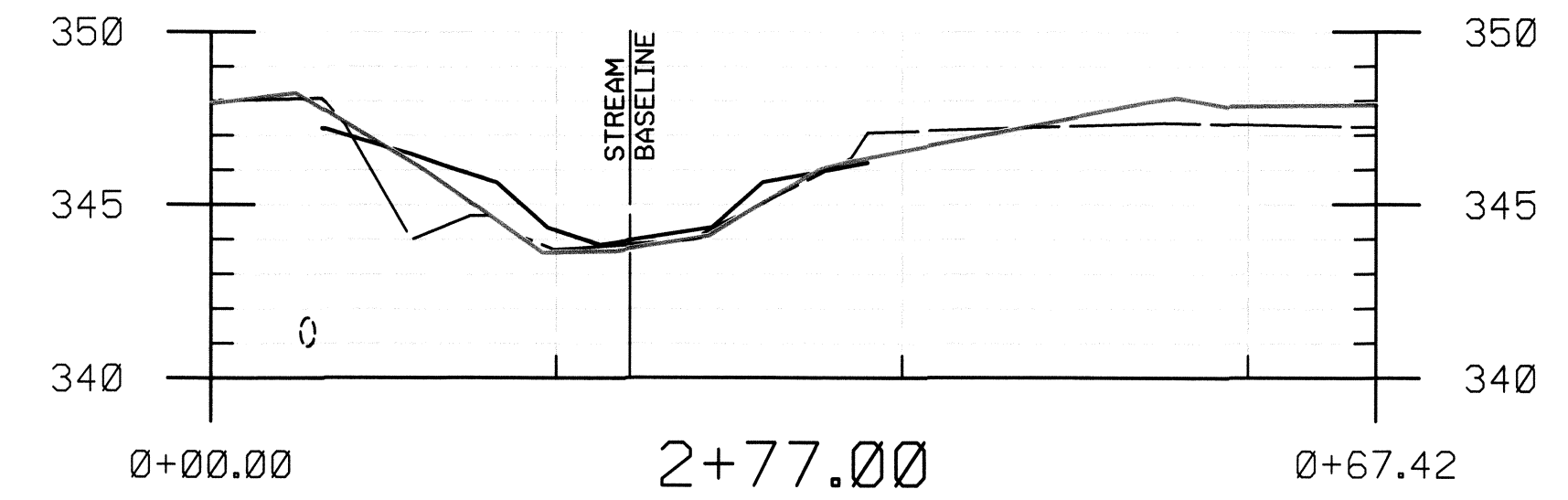
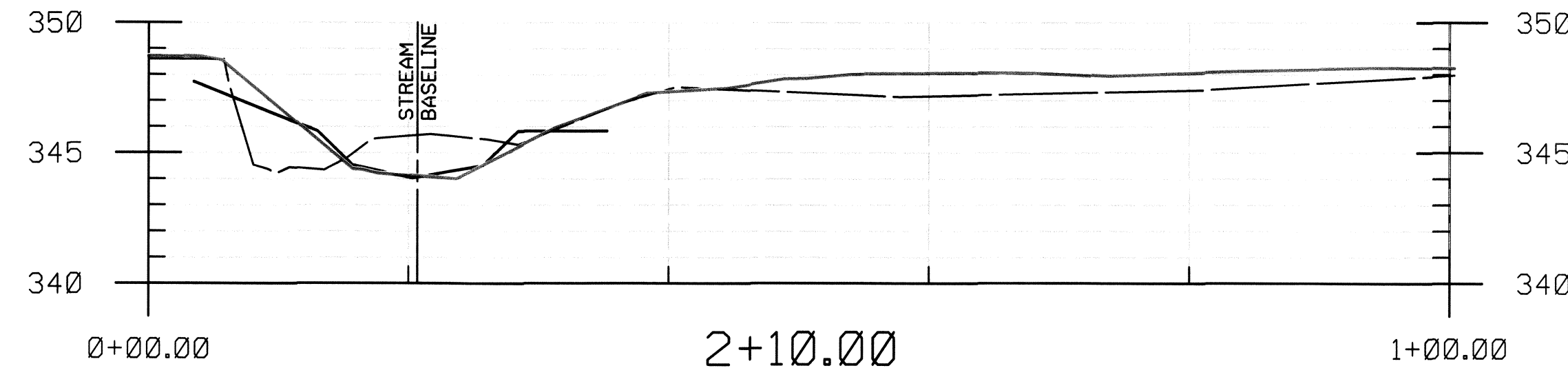
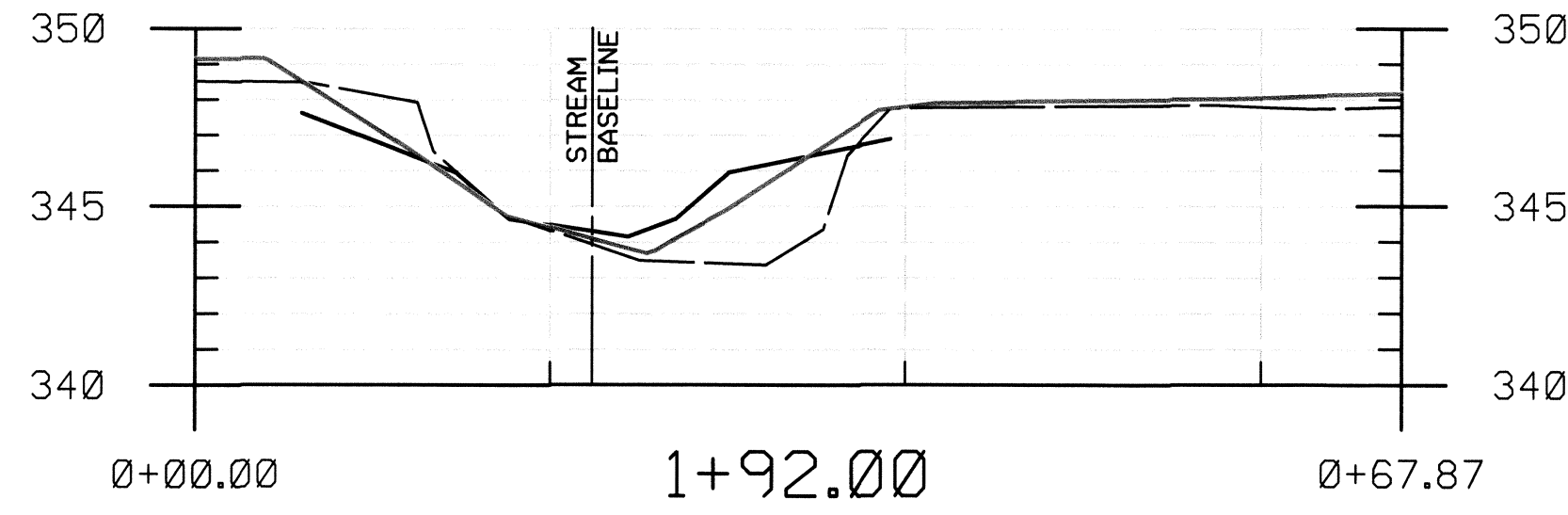
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

 DIRECTOR DATE

LEGEND

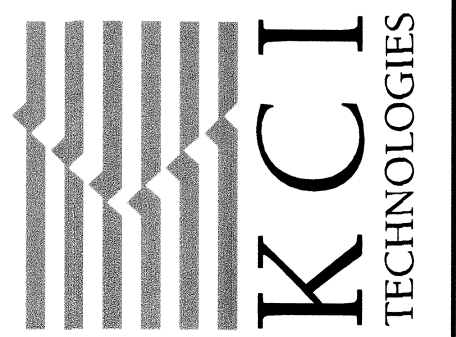
- EXISTING GROUND _____
- PROPOSED GRADE _____
- AS BUILT GRADE _____

PROFESSIONAL CERTIFICATION. I HEREBY
 CERTIFY THAT THESE DOCUMENTS WERE
 PREPARED OR APPROVED BY ME, AND THAT
 I AM A DULY LICENSED PROFESSIONAL
 ENGINEER UNDER THE LAWS OF THE STATE
 OF MARYLAND, LICENSE NO. 31201.
 EXPIRATION DATE: JANUARY 24, 2009



NO.		REVISIONS DESCRIPTION	DATE

10 NORTH PARK DRIVE
HUNT VALLEY, MD 21030
PHONE: (410) 316-7800
FAX: (410) 316-7817
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MEADOWBROOK PARK
STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
STORMWATER MANAGEMENT DIVISION
6751 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046

**AS-BUILT
CROSS
SECTIONS**

SCALE:	HOR. 1" = 10' VERT. 1" = 5'
DATE:	APRIL 2012
KCI JOB NO.:	01-081795.43
CAPITAL PROJECT NO.:	D1158
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	

SHEET NO.: 2 OF 9

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

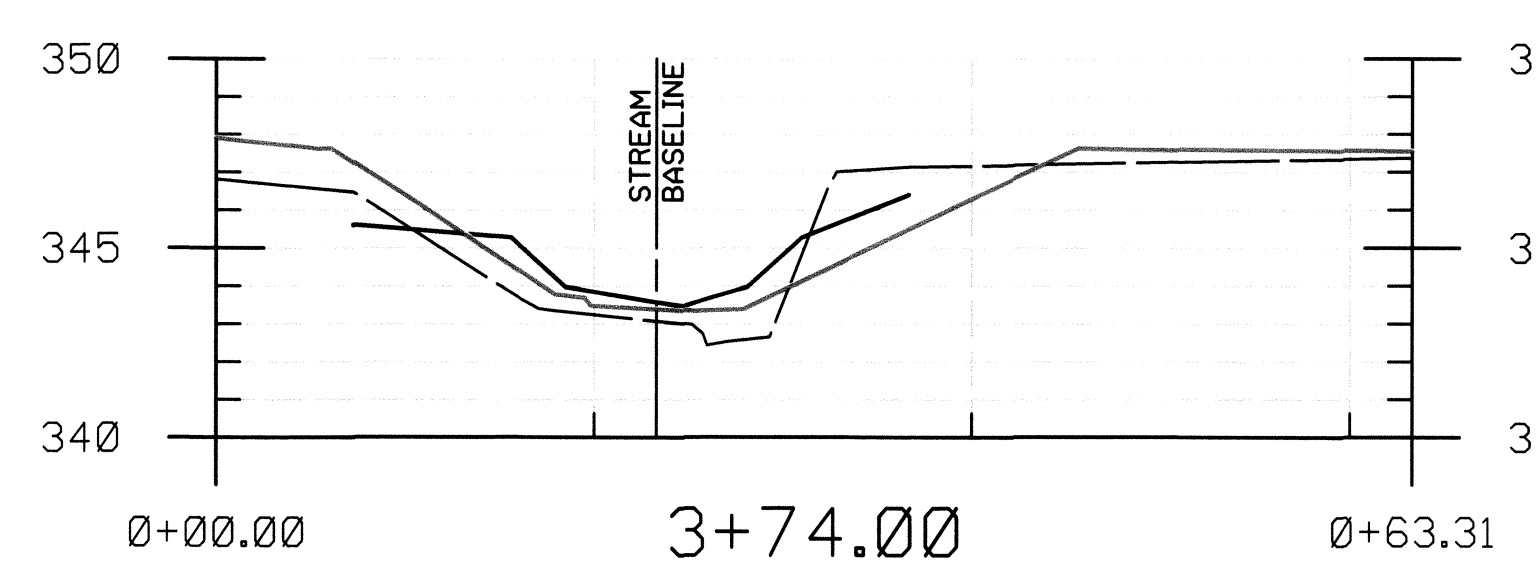
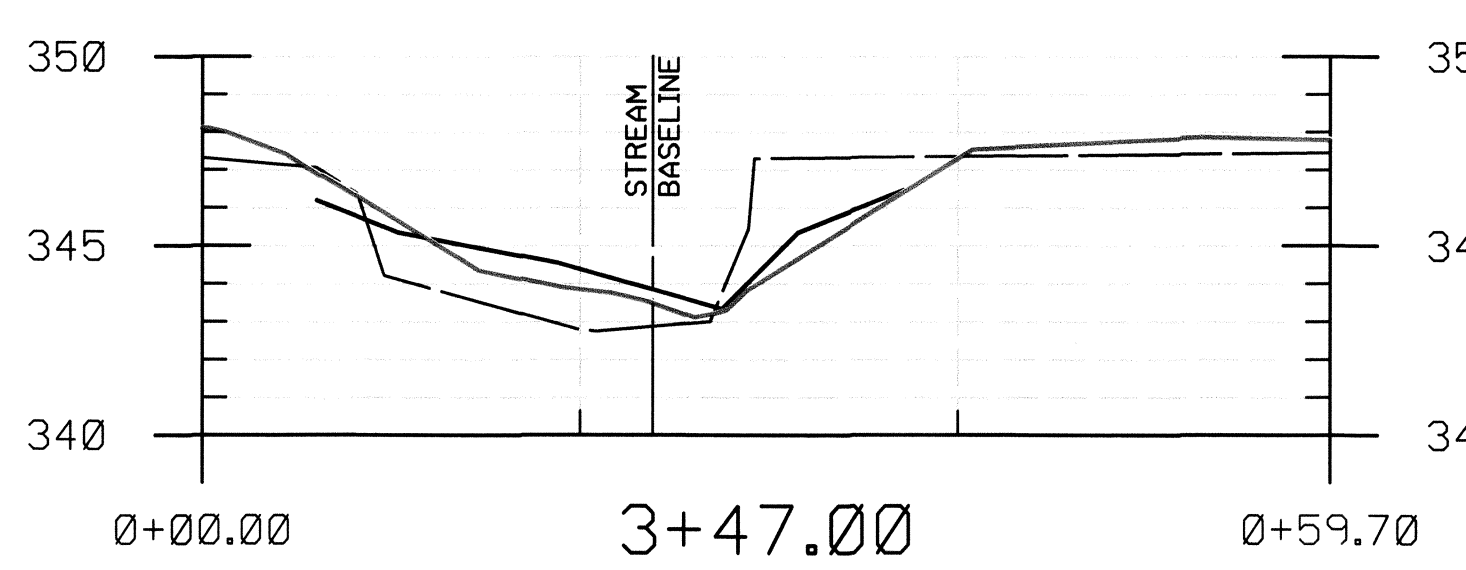
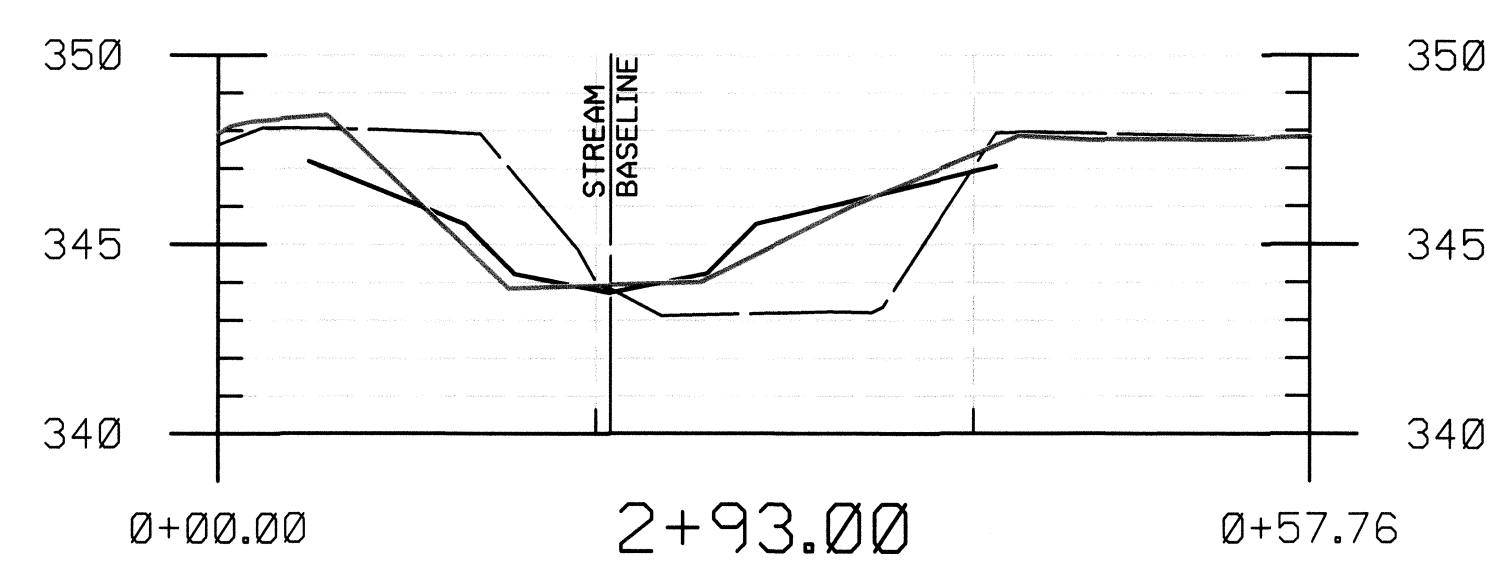
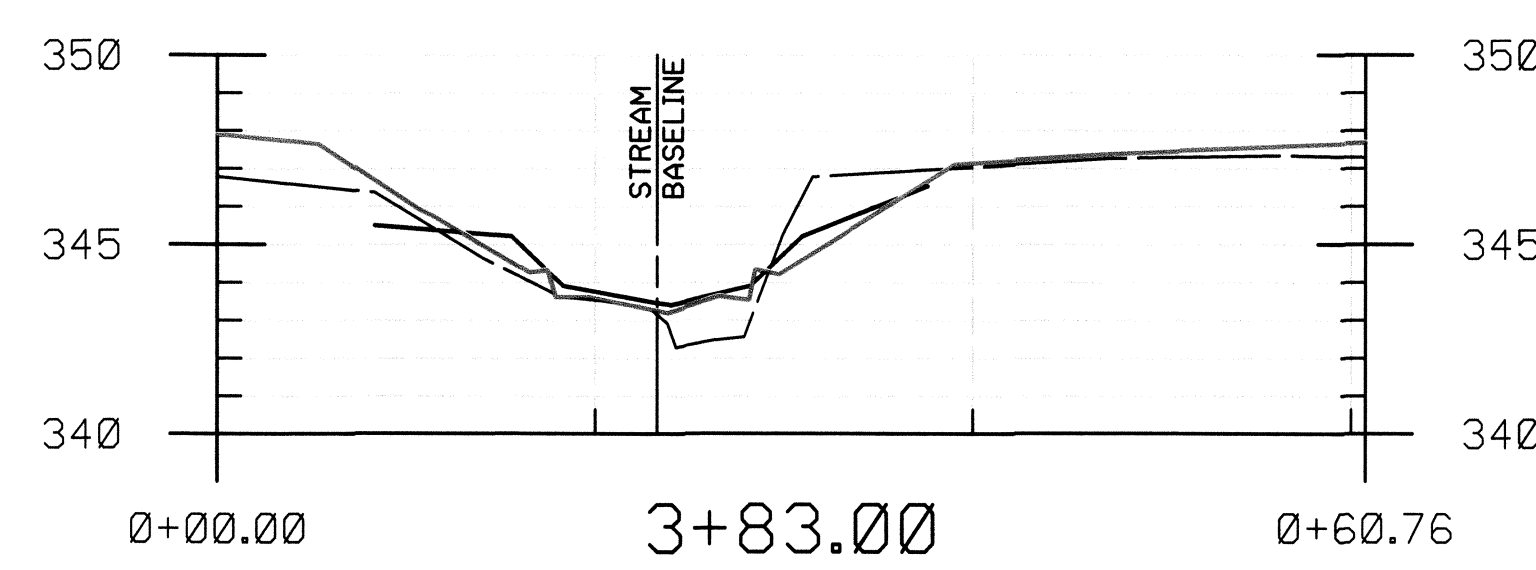
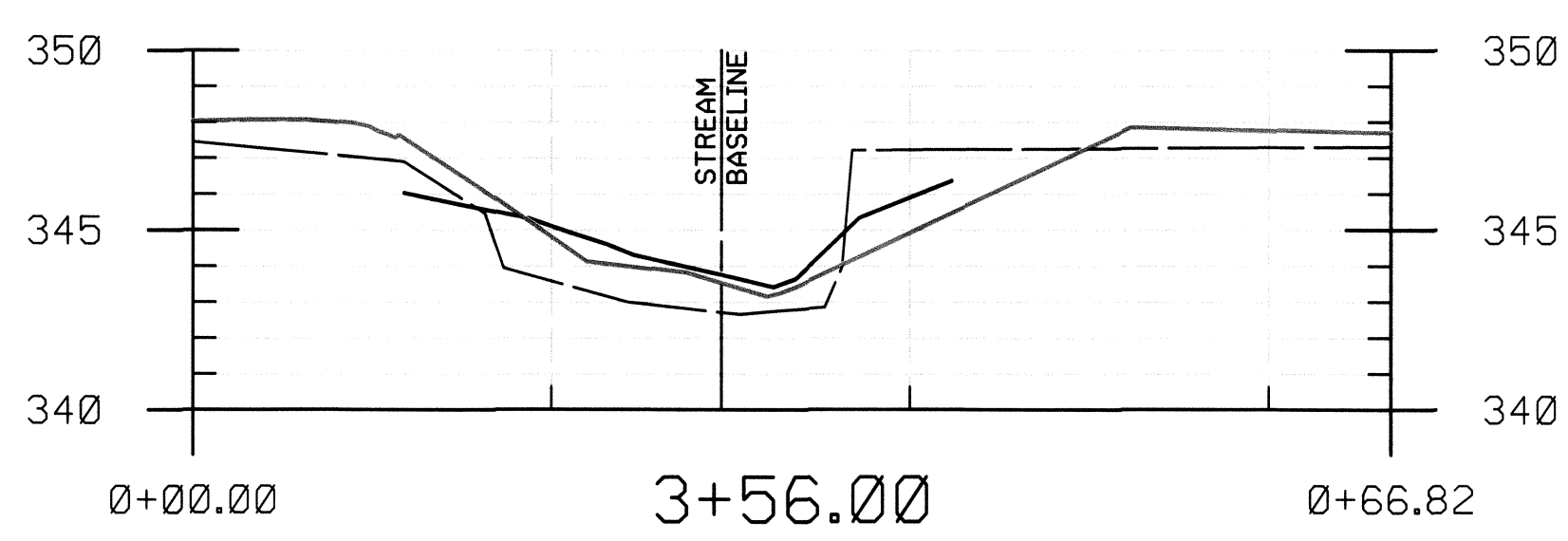
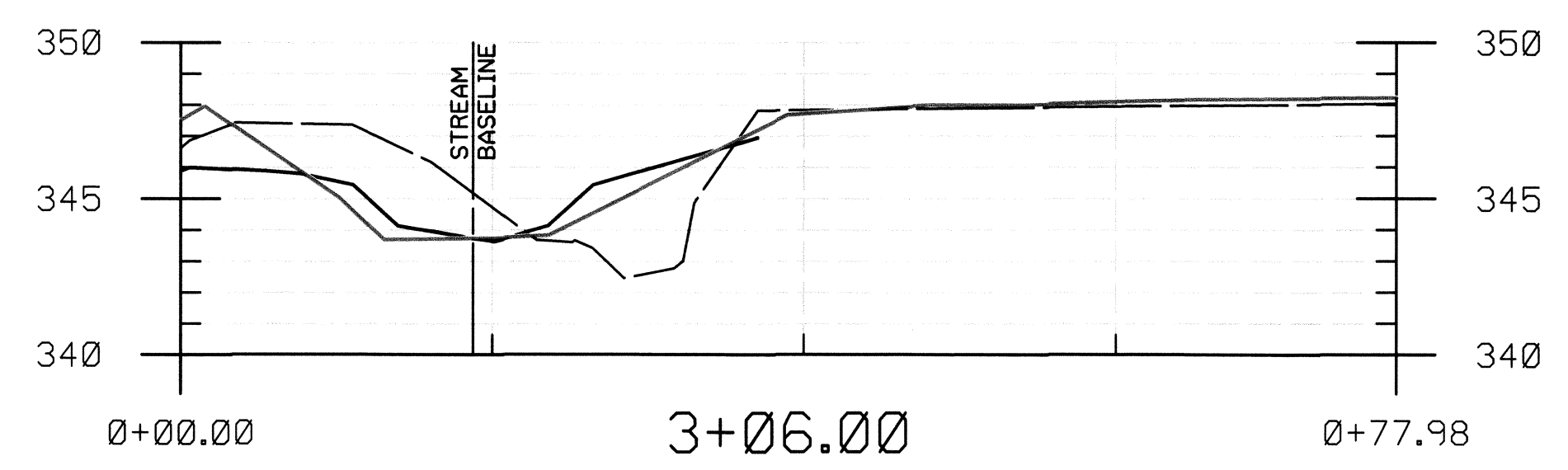
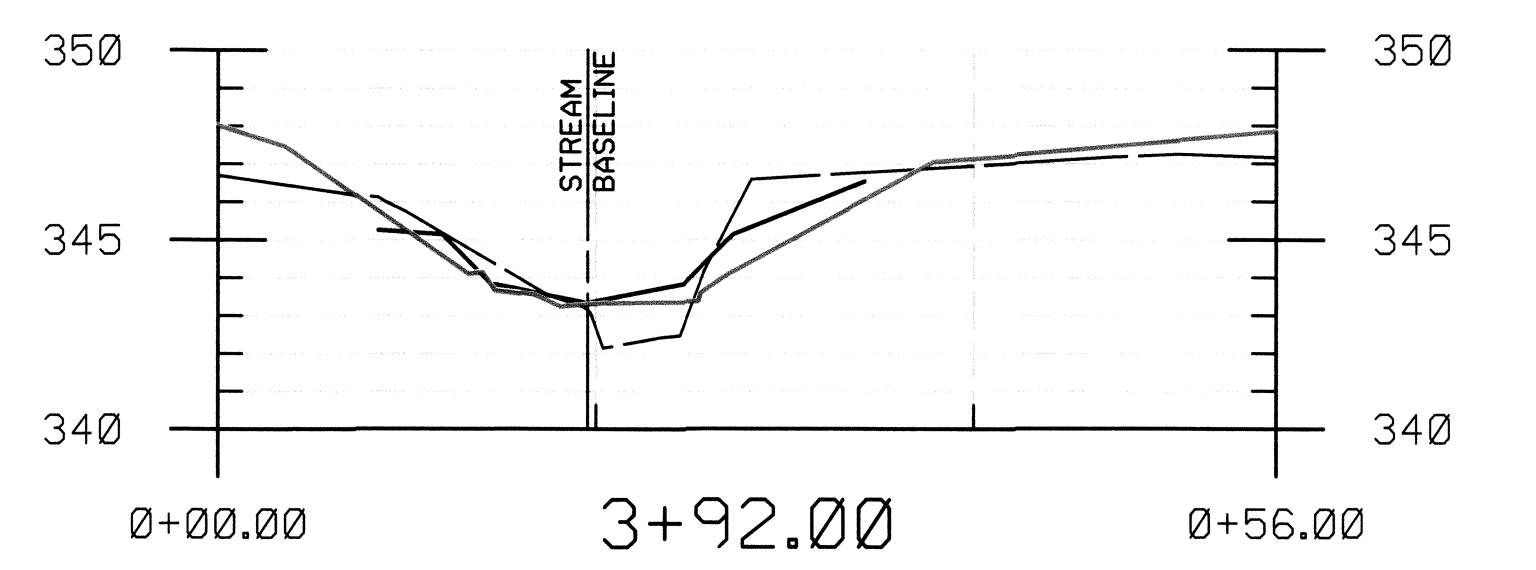
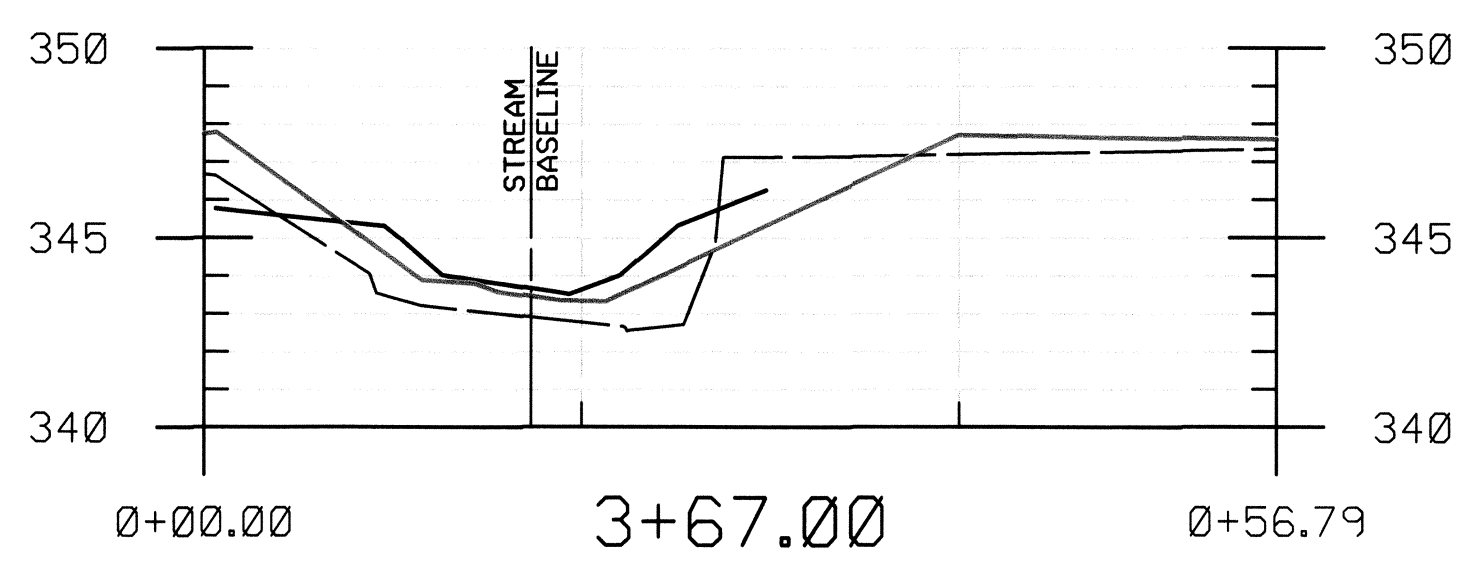
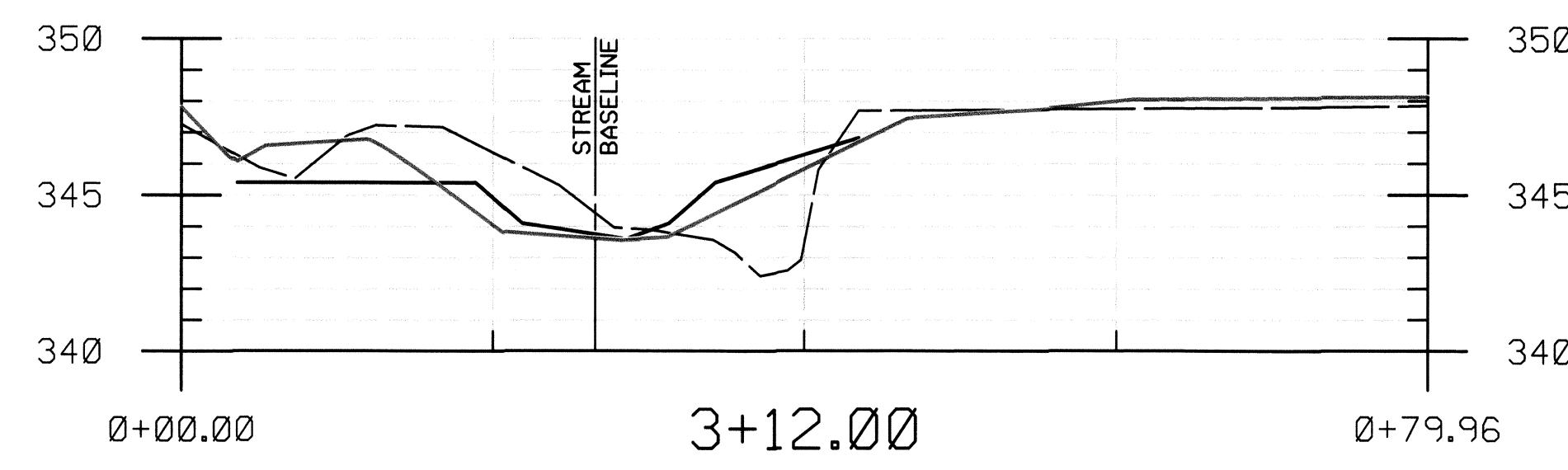
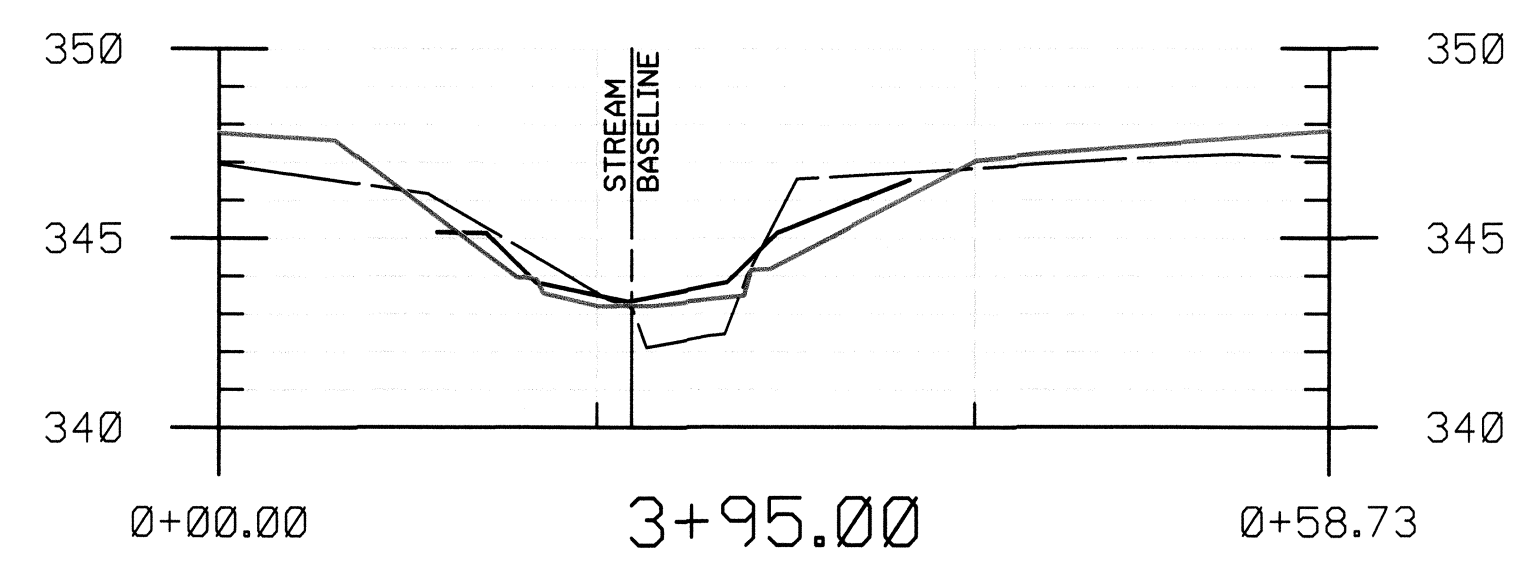
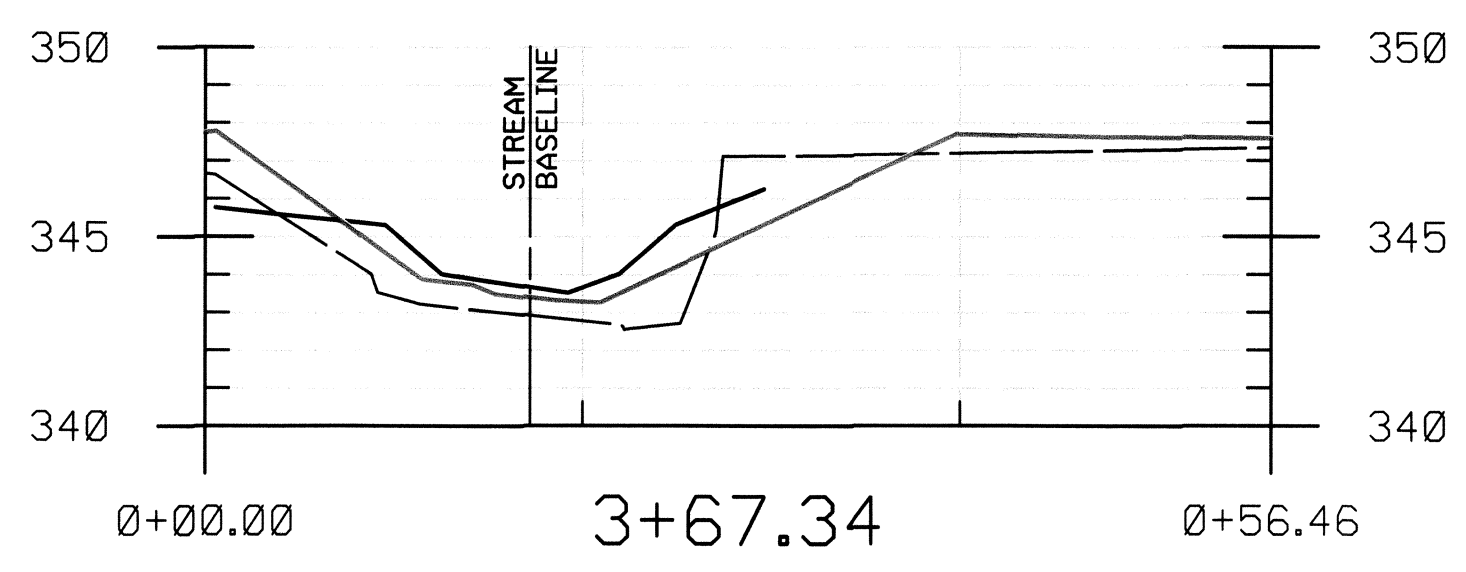
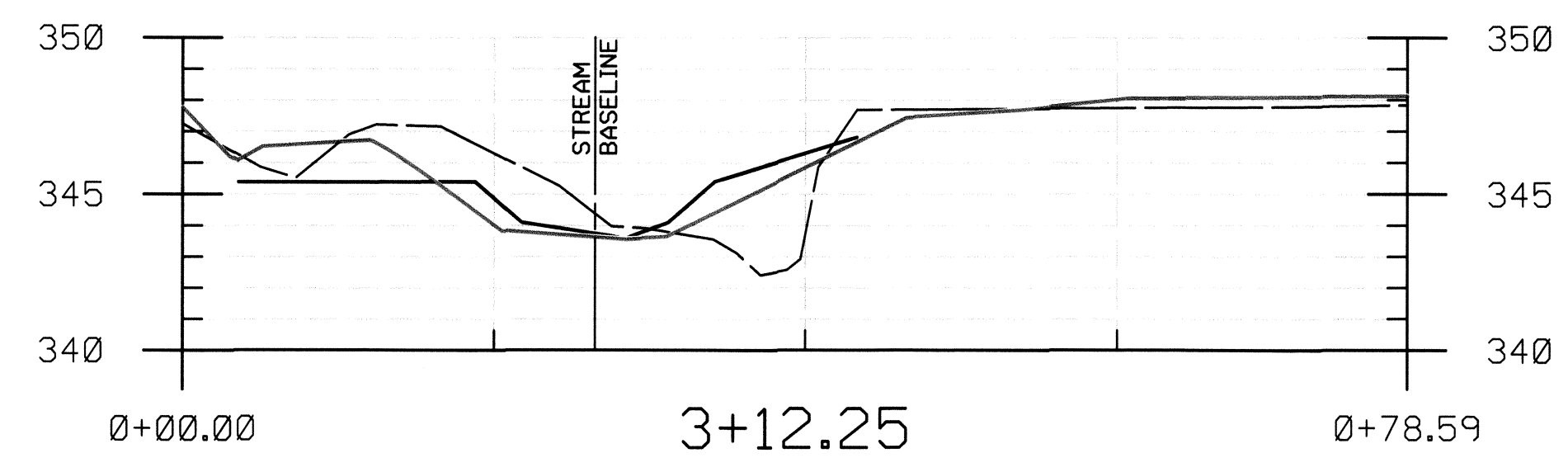
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DIRECTOR DATE

LEGEND	
EXISTING GROUND	— — — — —
PROPOSED GRADE	—————
AS BUILT GRADE	—————

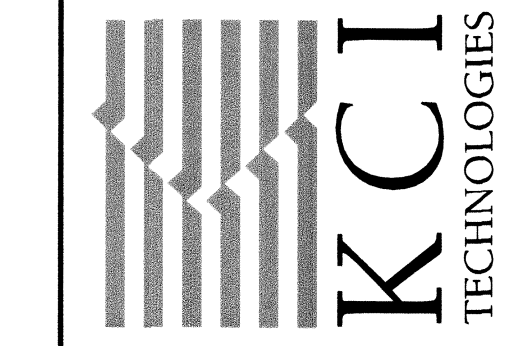
PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31201. EXPIRATION DATE: JANUARY 24, 2009

PLOTTED: 10:02 AM, 04/23/2012
BY: Courtney Hupp, Division P030, Natural Resources
FILE: M:\2008\081795.43_Veranda\CD\mxd\asbt_rev2.dgn



NO.	REVISIONS DESCRIPTION	DATE

10 NORTH PARK DRIVE
 HUNT VALLEY, MD 21030
 PHONE: (410) 316-7800
 FAX: (410) 316-7817
 WWW.KCI.COM



MEADOWBROOK PARK
 STREAM RESTORATION PROJECT
 CAPITAL PROJECT D-1158
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 STORMWATER MANAGEMENT DIVISION
 675 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046

AS-BUILT CROSS SECTIONS

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION	DATE _____
CHIEF, DIVISION OF LAND DEVELOPMENT	DATE _____
DIRECTOR	DATE _____

LEGEND

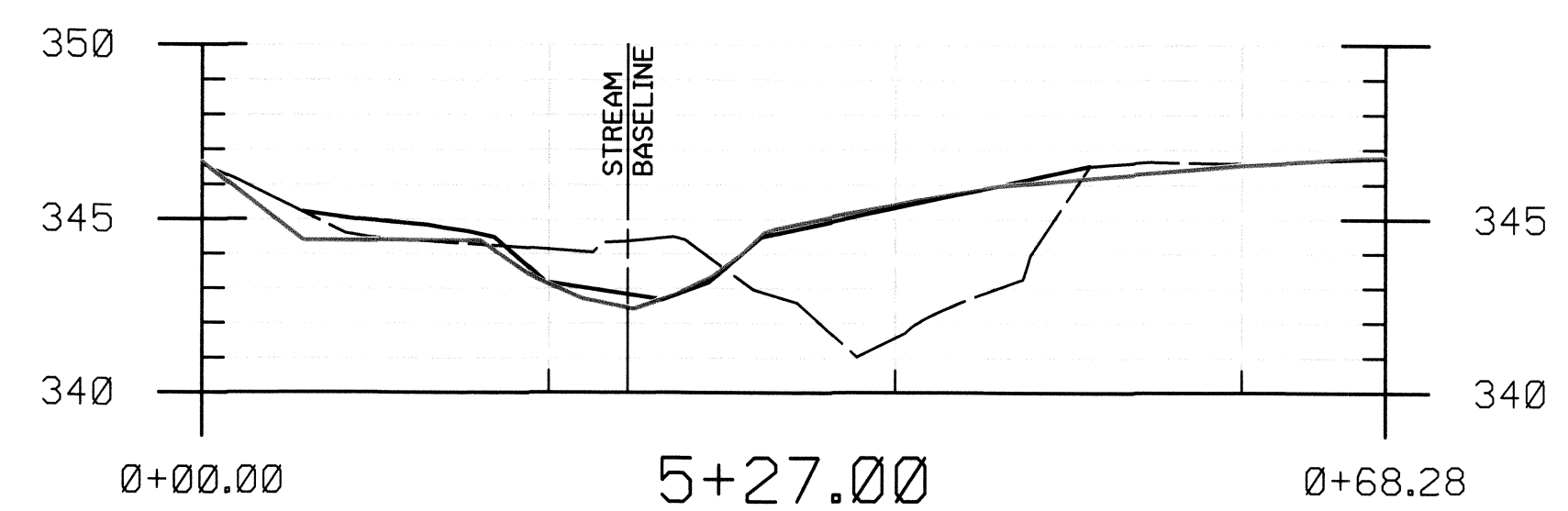
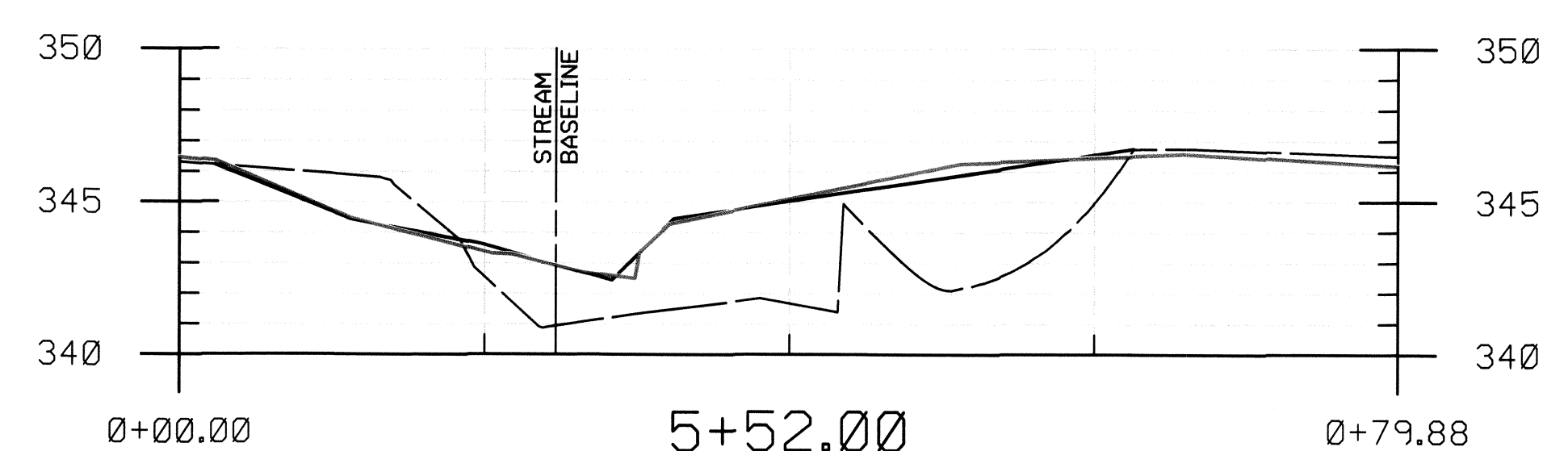
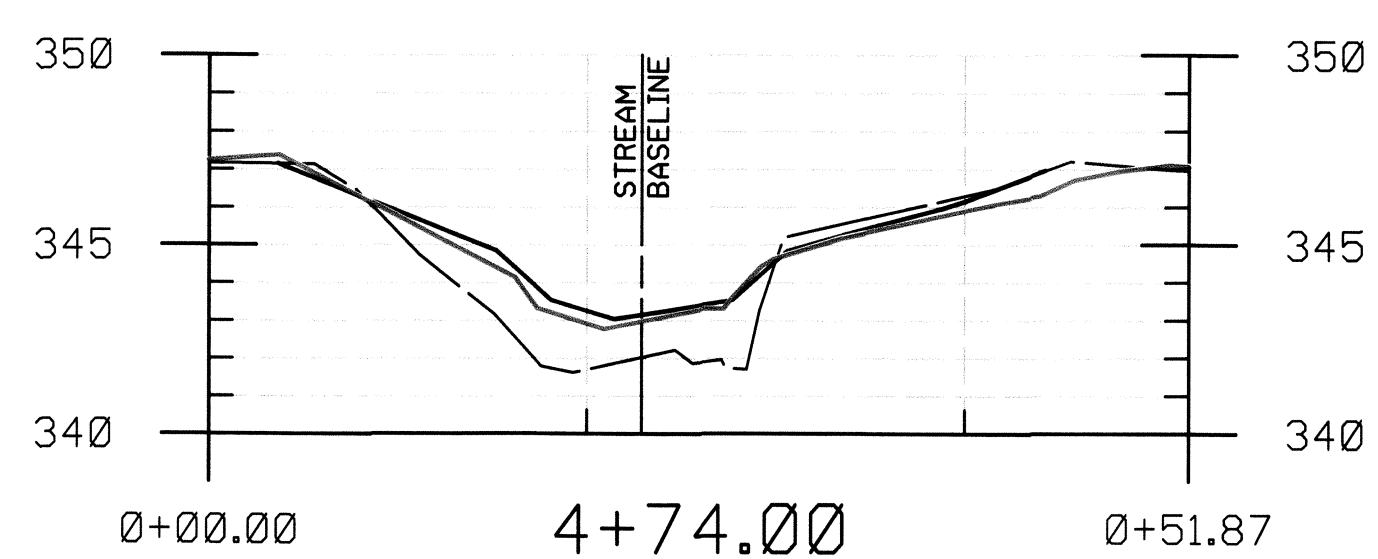
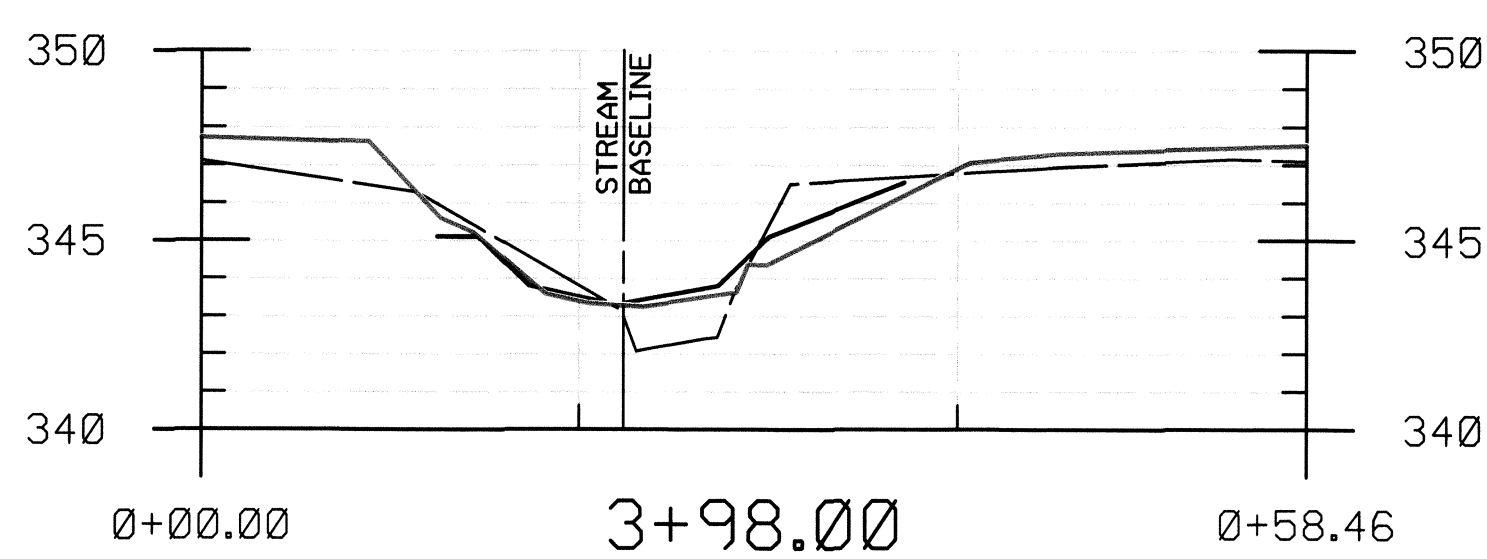
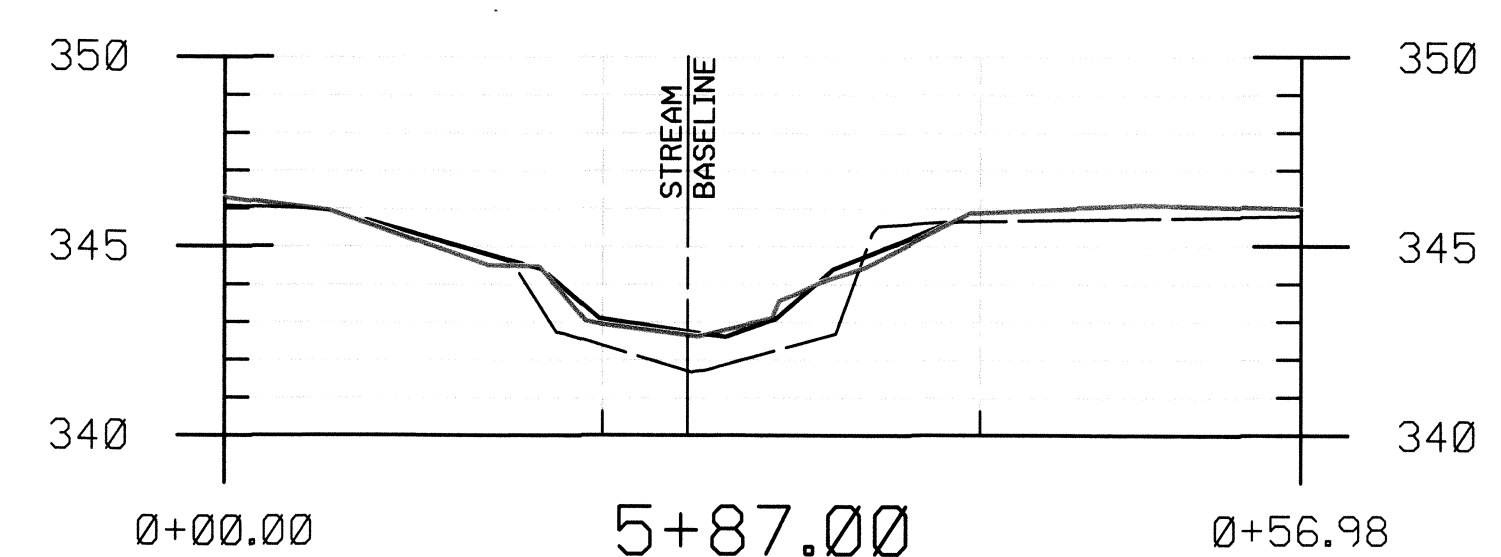
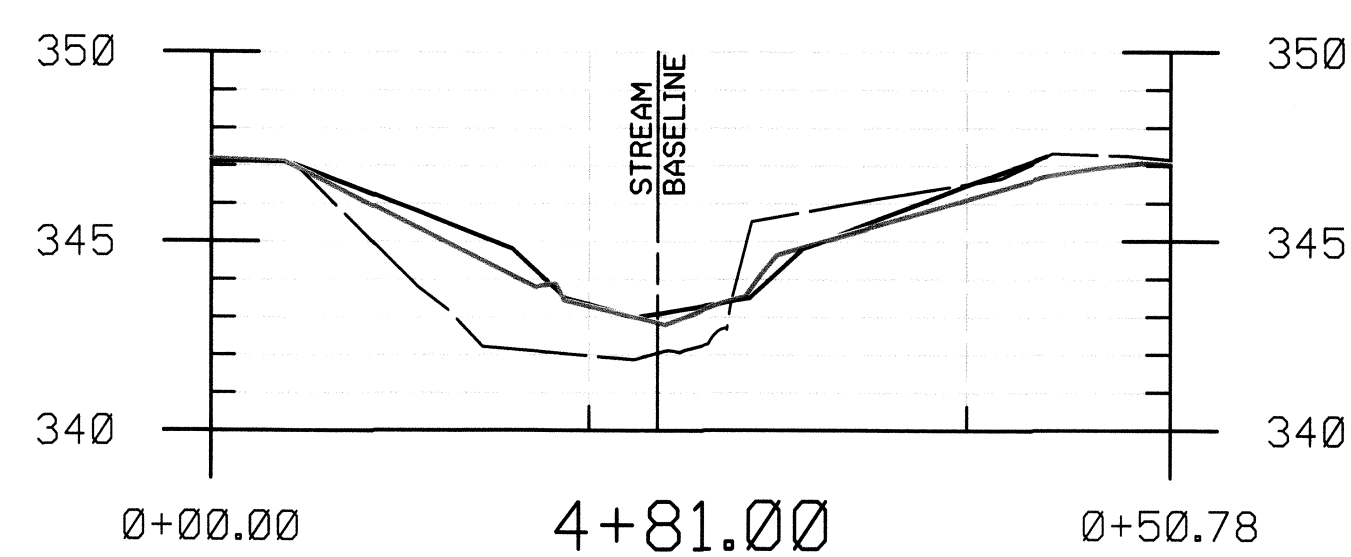
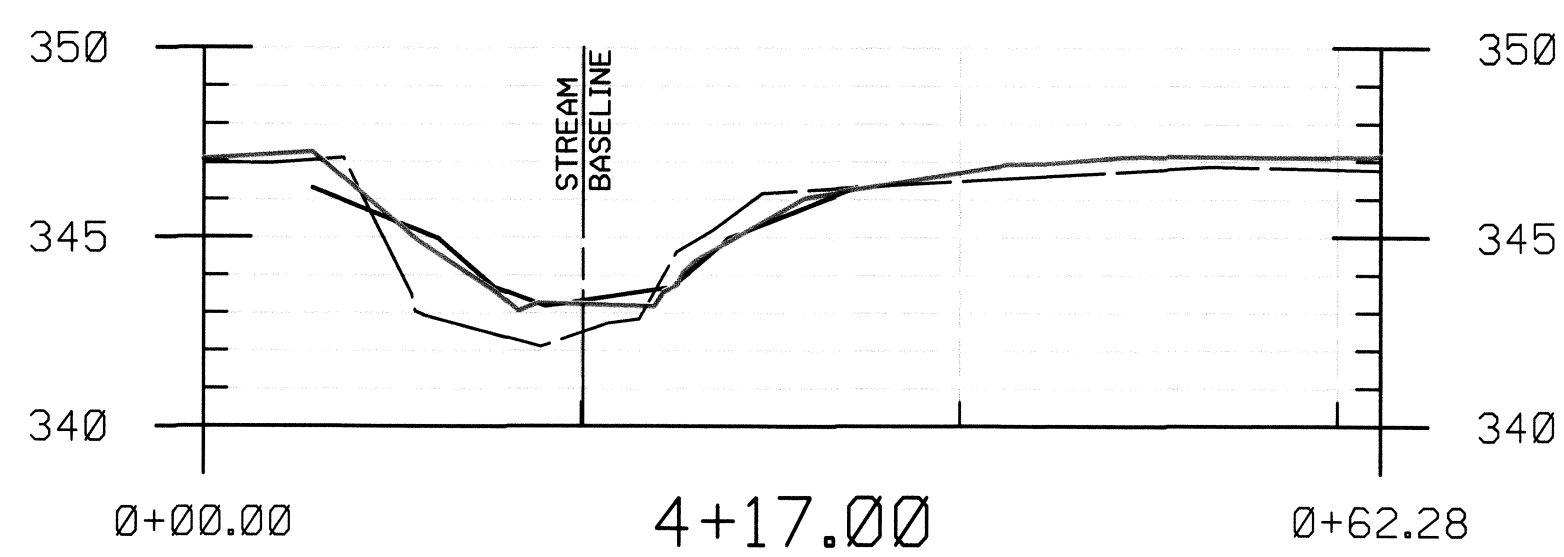
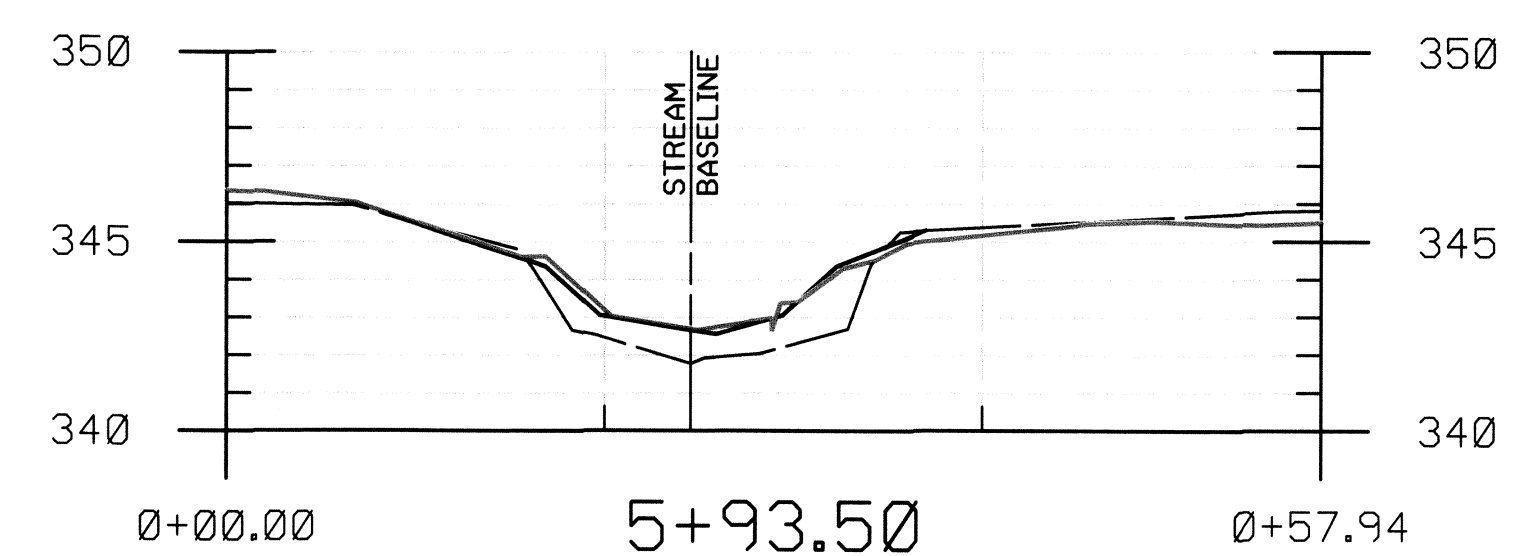
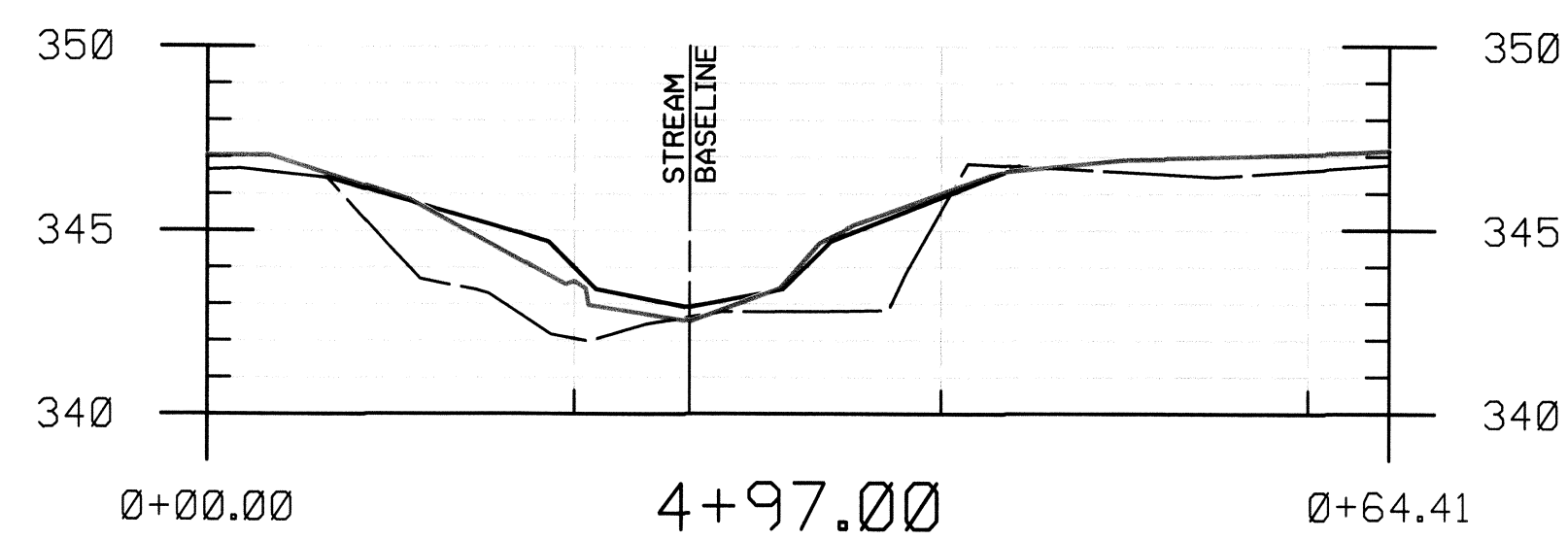
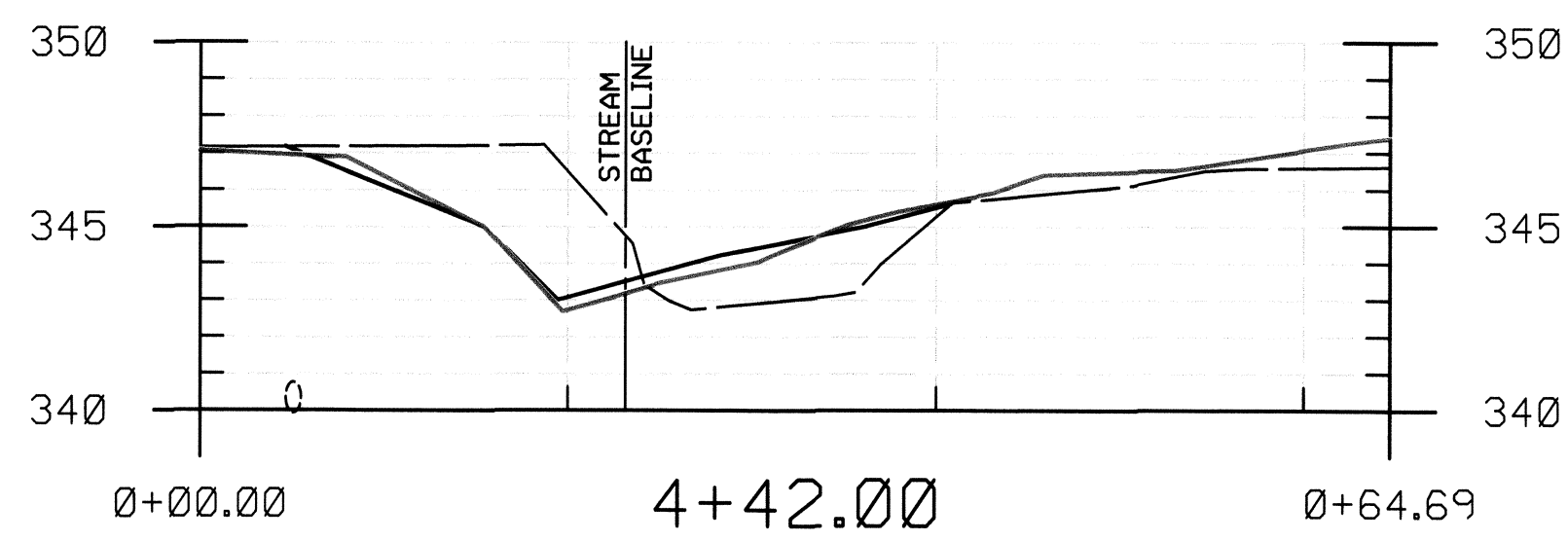
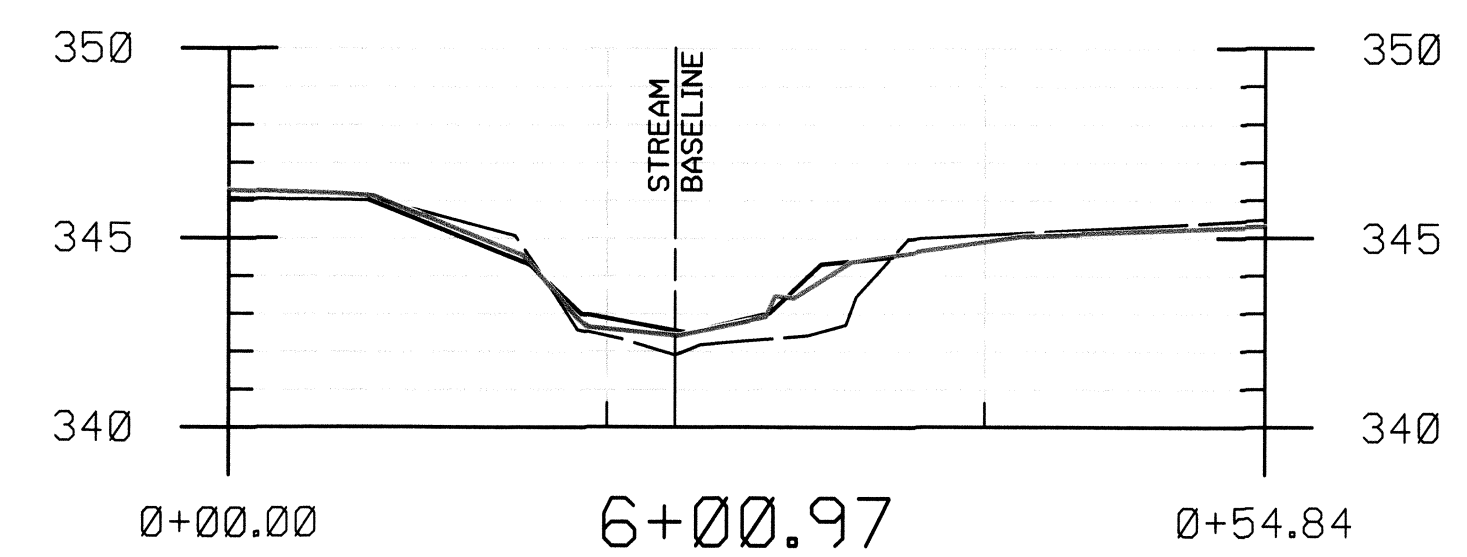
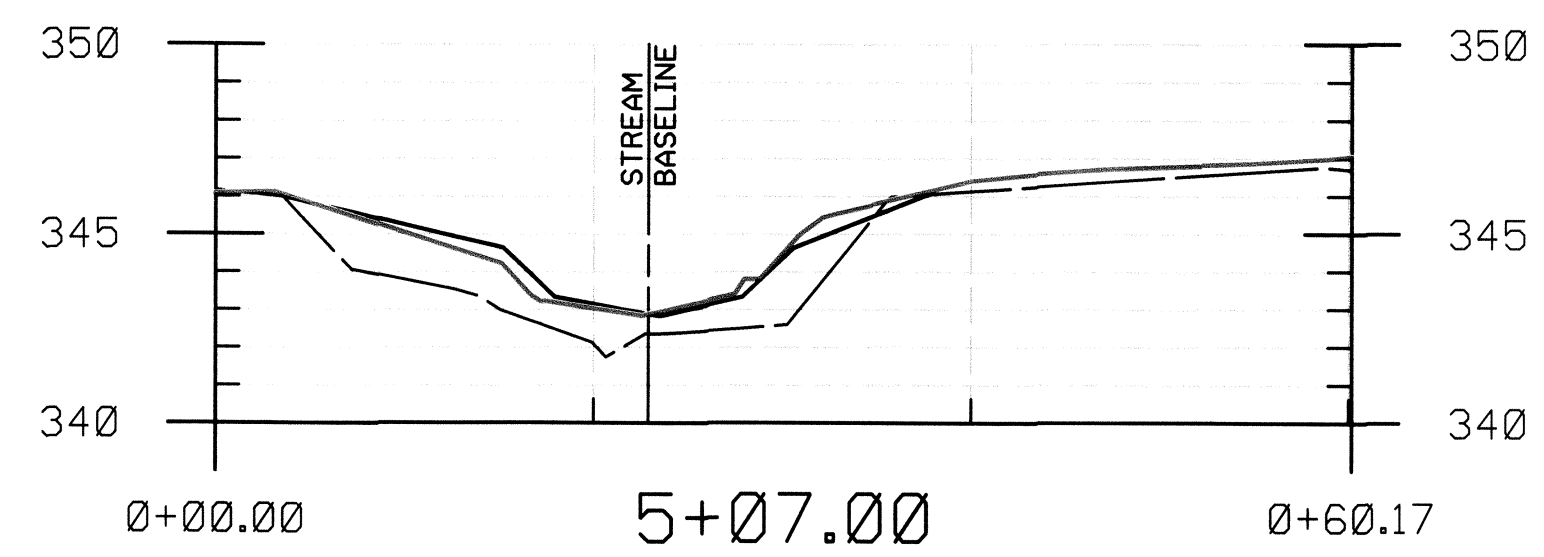
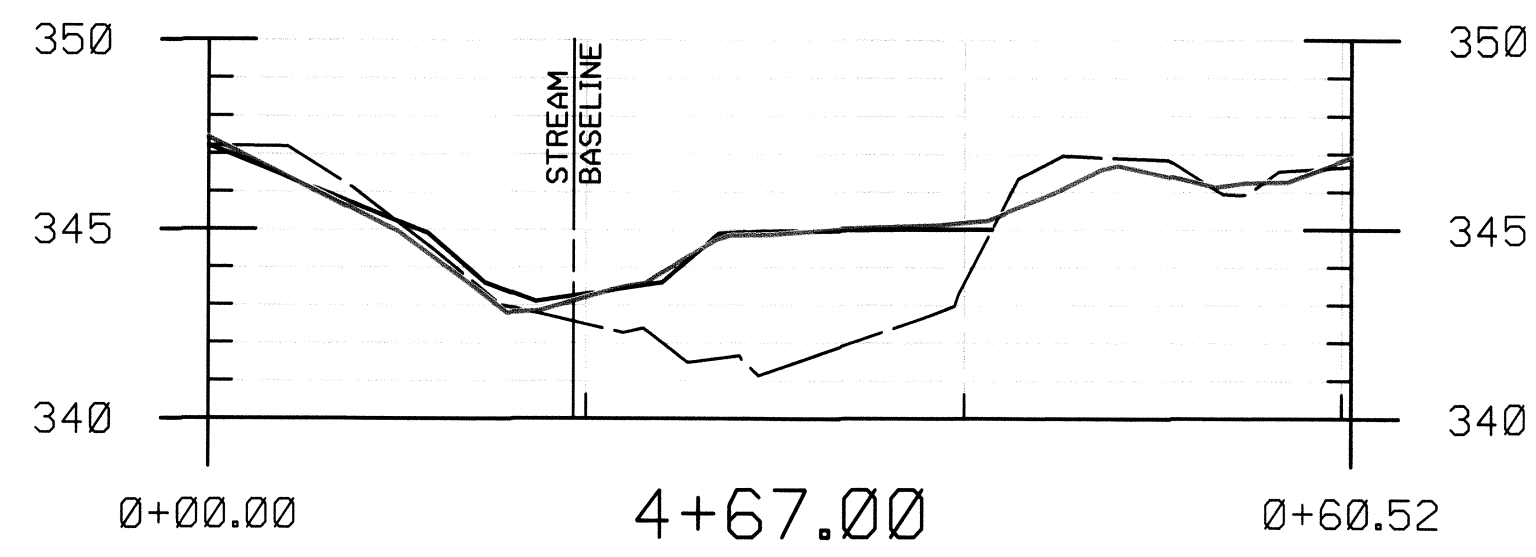
- EXISTING GROUND ————
- PROPOSED GRADE ————
- AS BUILT GRADE ————

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31201. EXPIRATION DATE: JANUARY 24, 2009

PLOTTED: 09/27 AM, on Wednesday, Apr 25, 2012
 BY: Courtney Hugo, Division PQ350, Natural Resources
 FILE: M:\2008\01081795.43\Drawings\csl12.mxd, sz=2.dgn

SCALE:	HOR. 1" = 10'
	VERT. 1" = 5'
DATE:	APRIL 2012
KCI JOB NO.:	01-081795.43
CAPITAL PROJECT NO.:	D1158
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	

SHEET NO.: 3 OF 9



LEGEND	
EXISTING GROUND	-----
PROPOSED GRADE	_____
AS BUILT GRADE	_____

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

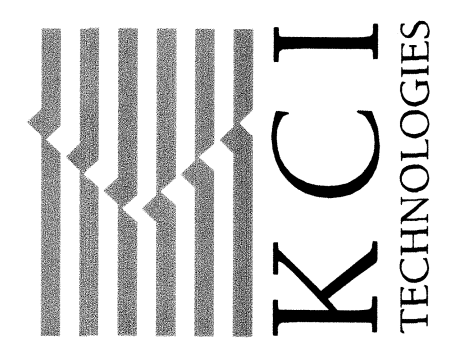
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DIRECTOR DATE

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31201. EXPIRATION DATE: JANUARY 24, 2009

NO.	REVISIONS DESCRIPTION	DATE

10 NORTH PARK DRIVE
HUNT VALLEY, MD 21030
PHONE: (410) 316-7800
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WWW.KCI.COM

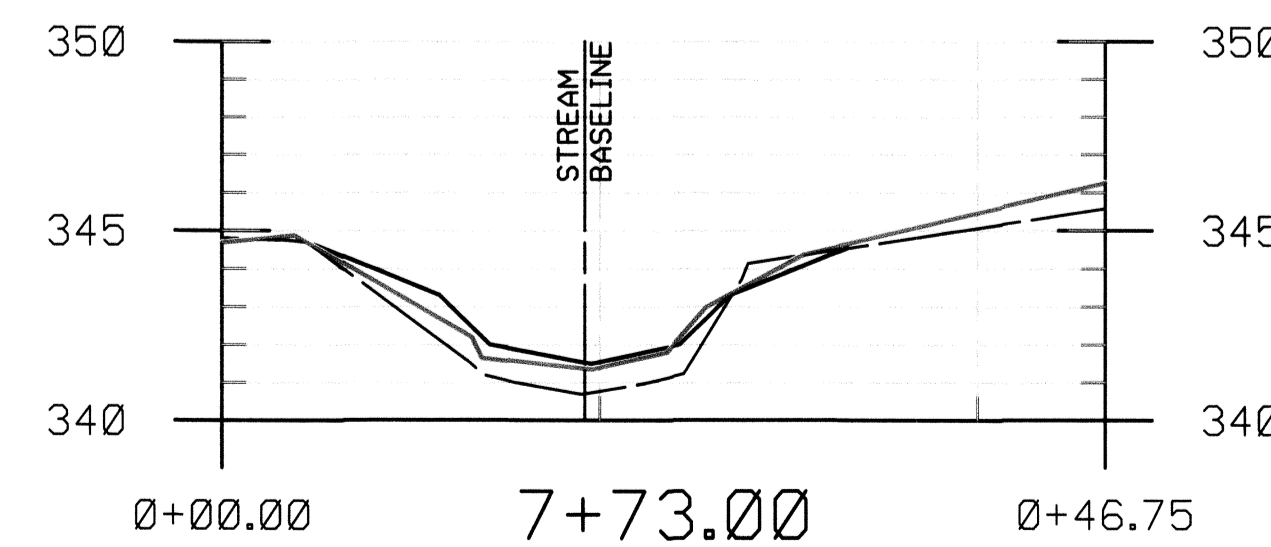
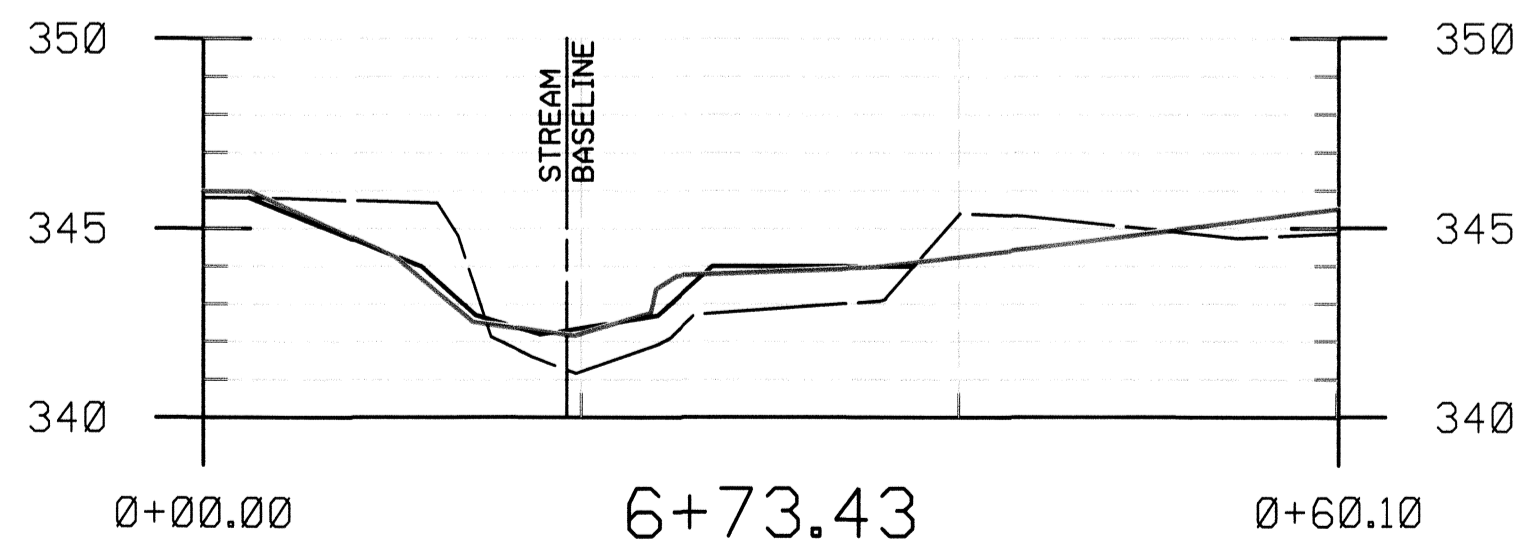
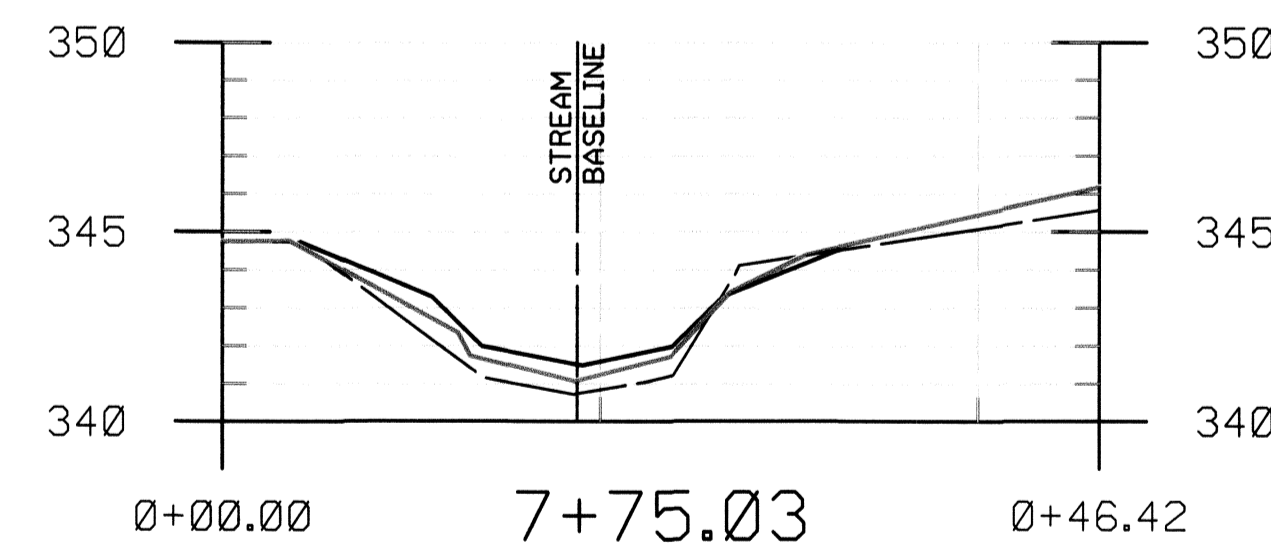
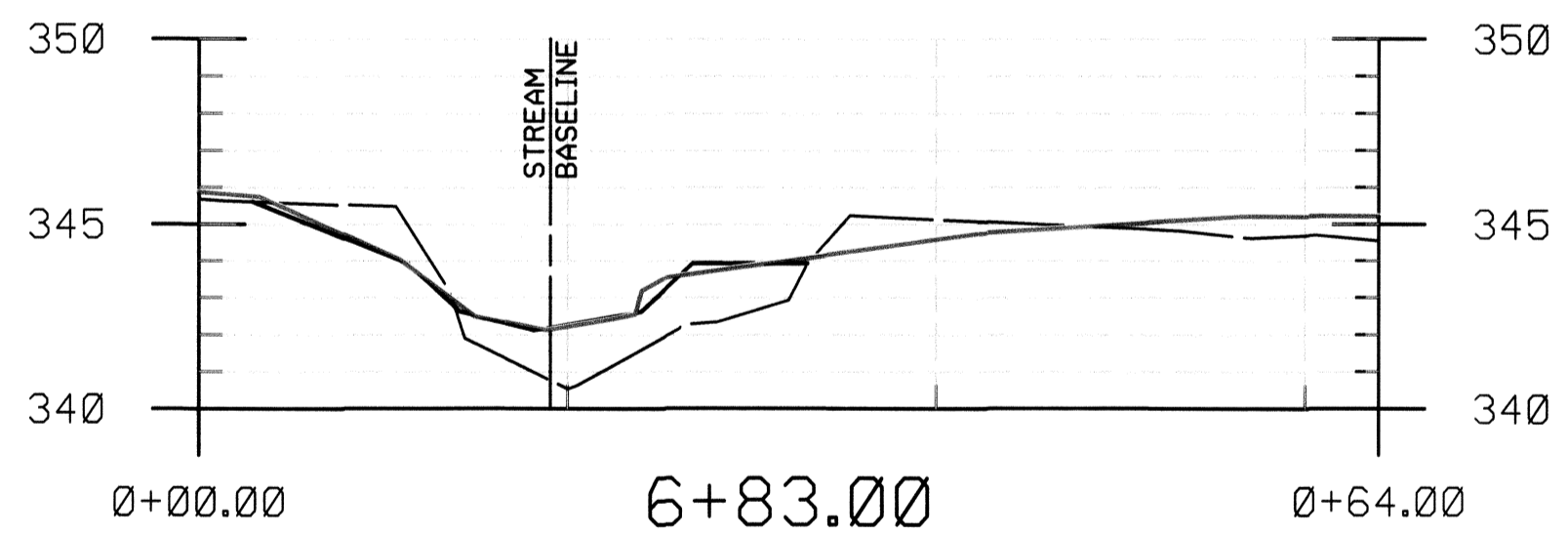
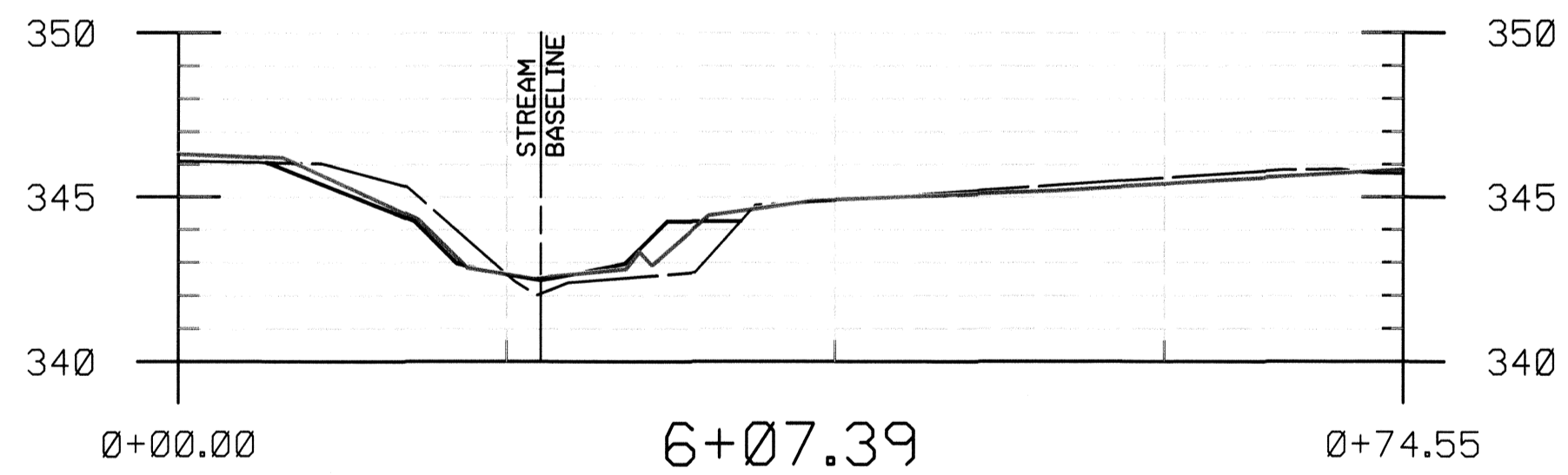
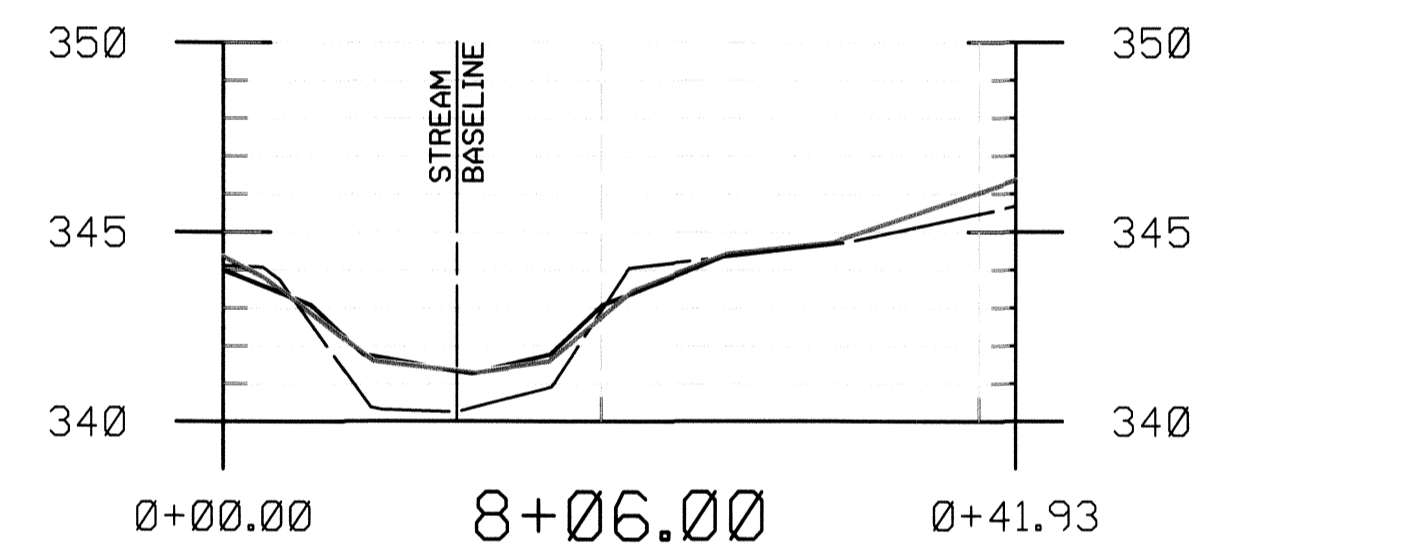
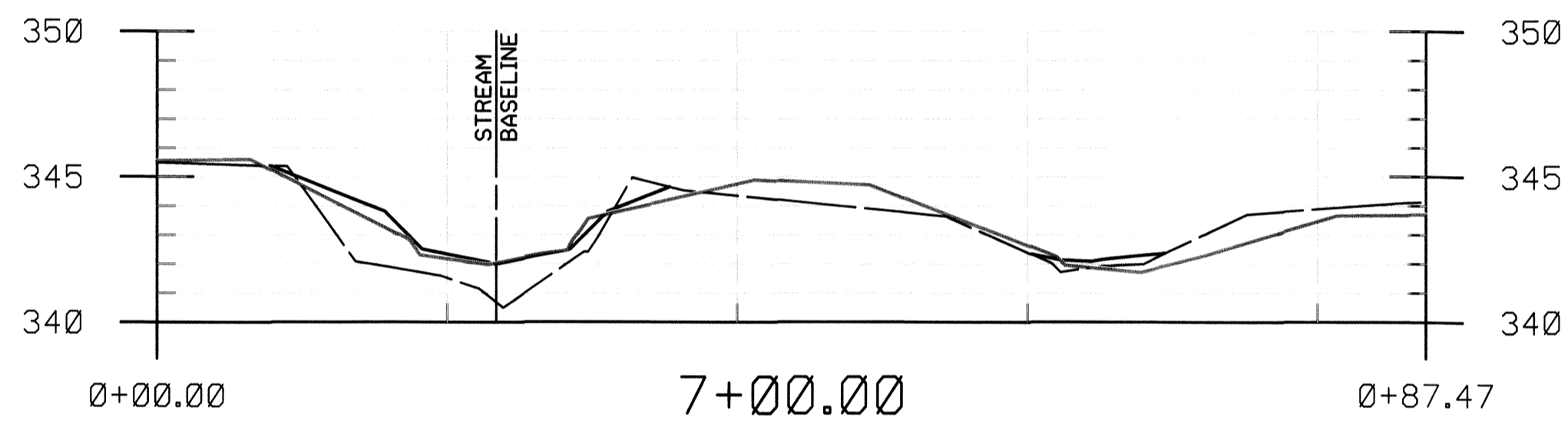
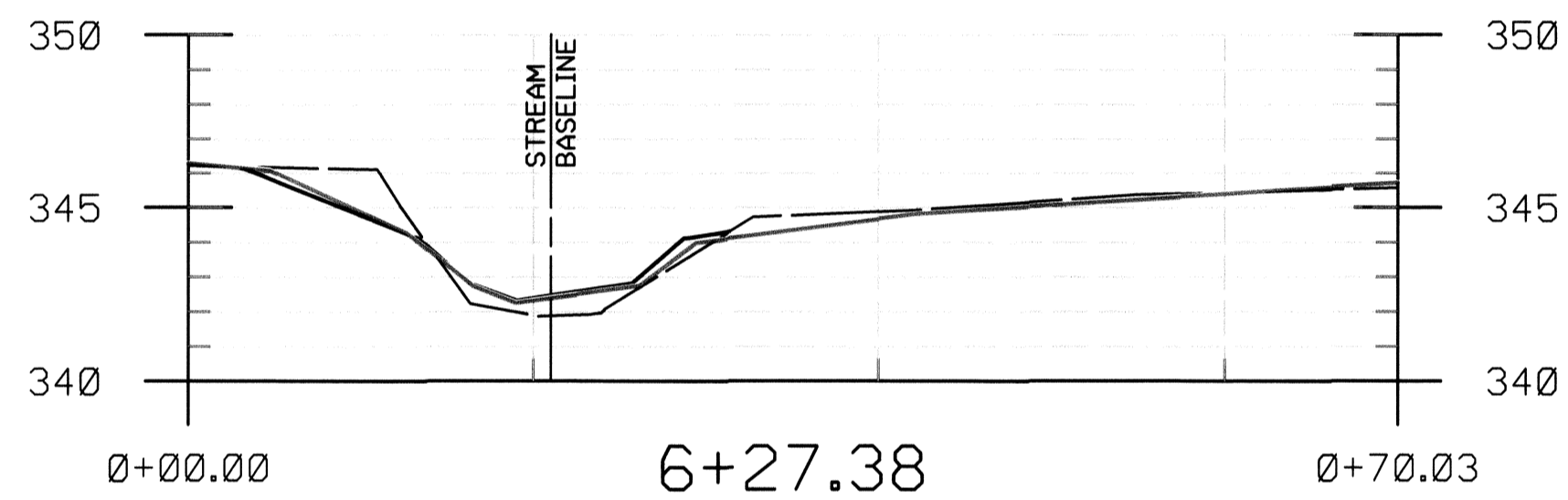
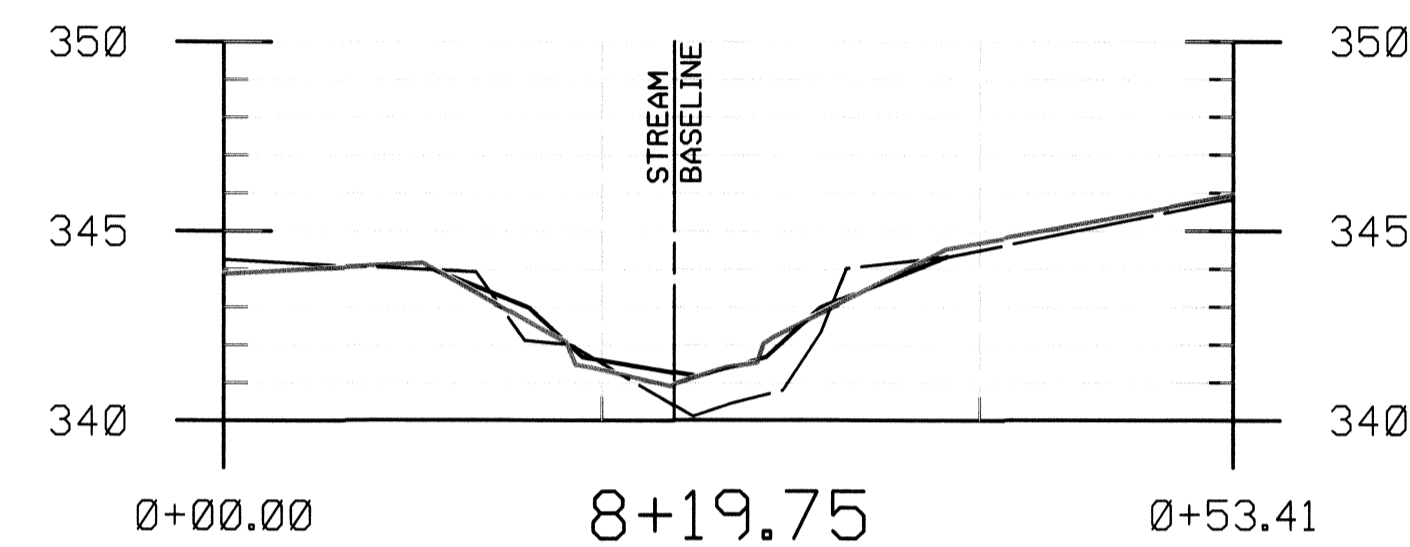
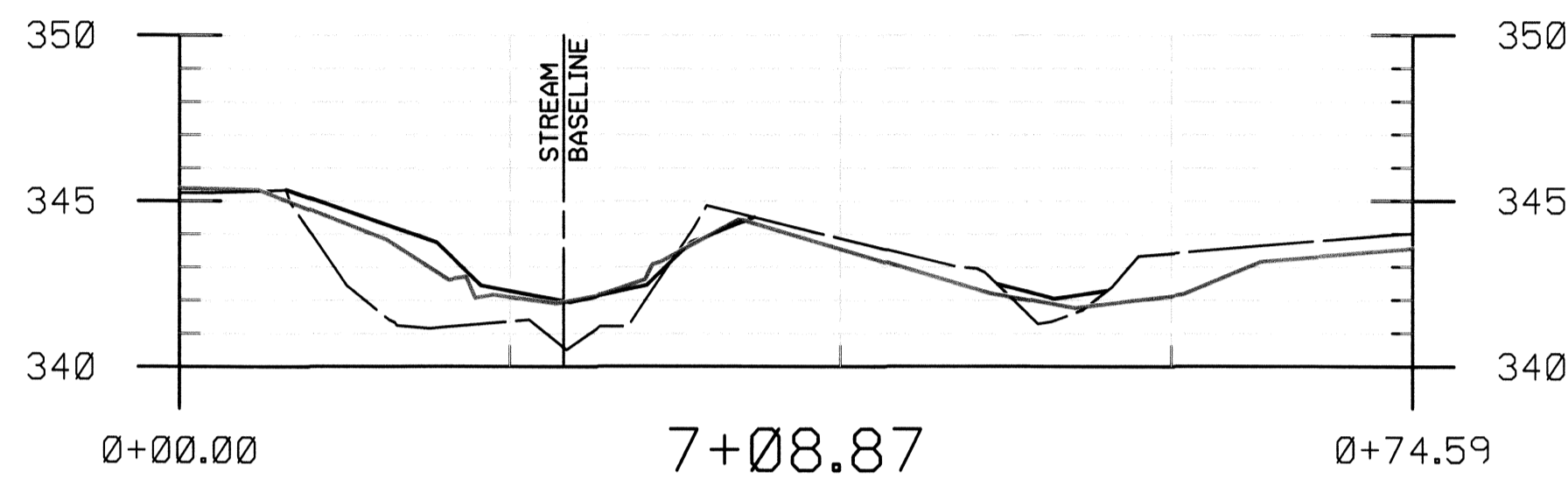
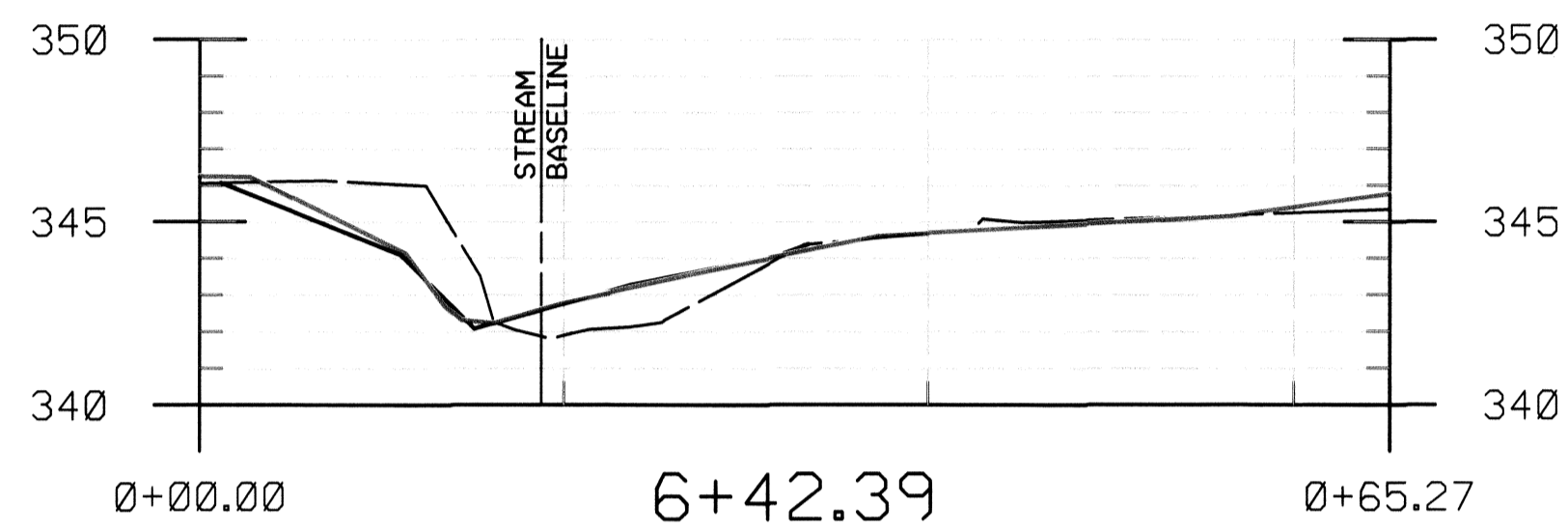
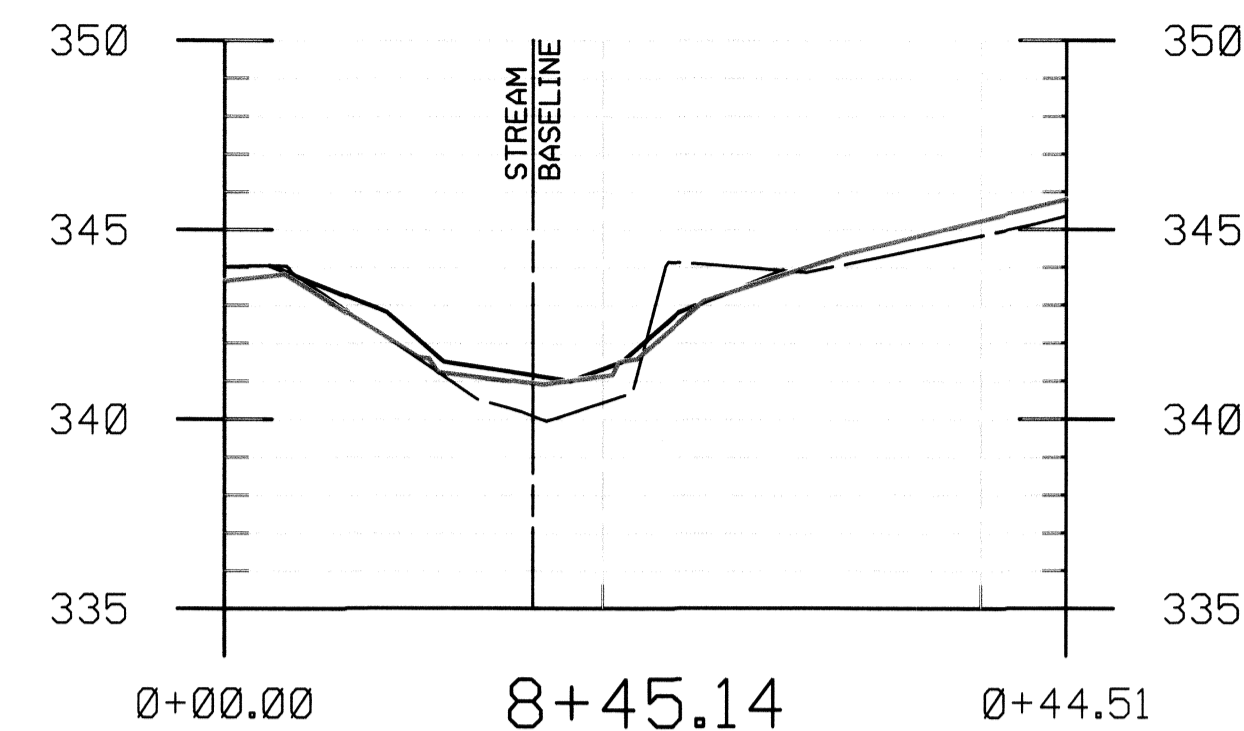
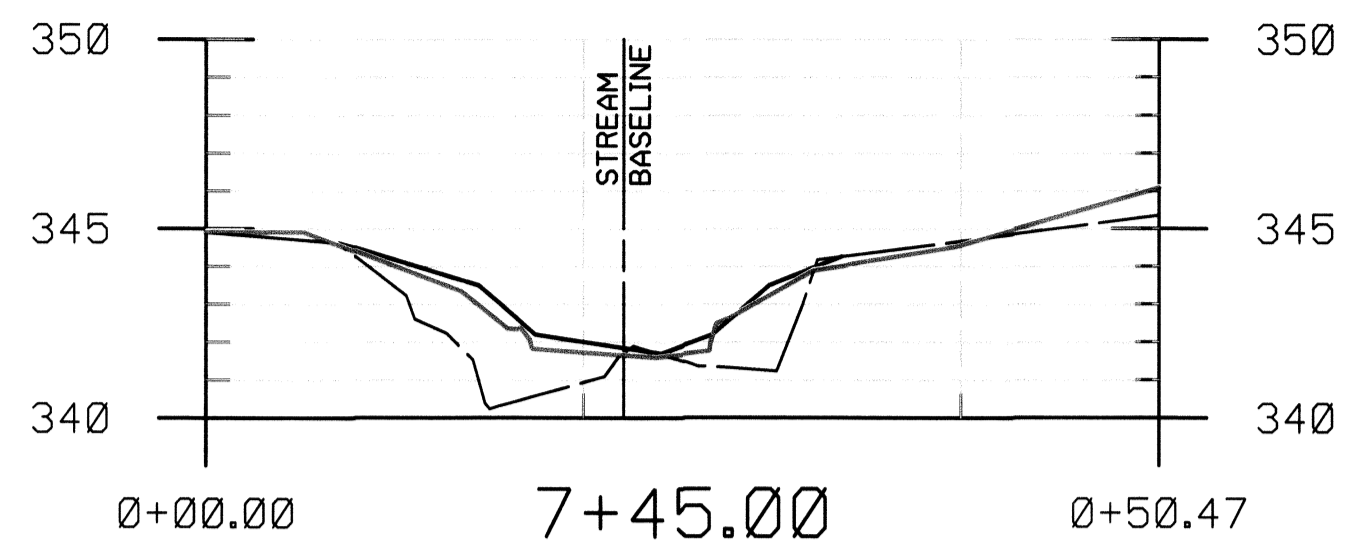
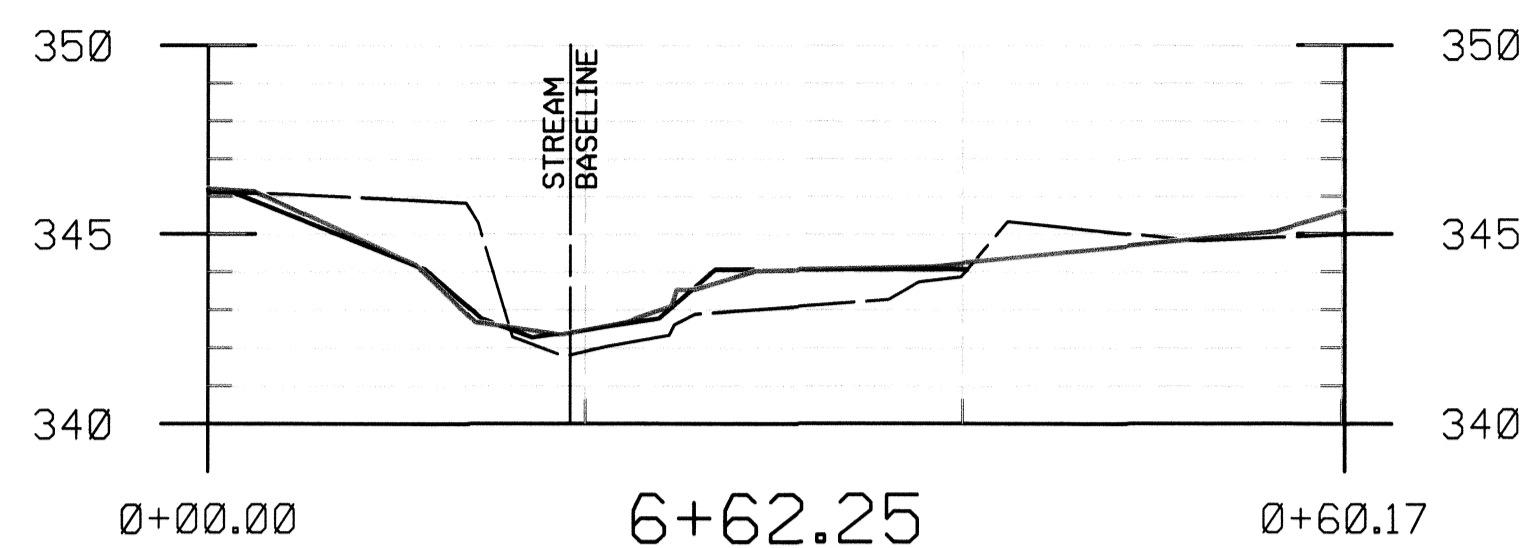


**MEADOWBROOK PARK
STREAM RESTORATION PROJECT**
CAPITAL PROJECT D-1158
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
STORMWATER MANAGEMENT DIVISION
6751 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046

**AS-BUILT
CROSS
SECTIONS**

SCALE:	HOR. 1" = 10'
	VERT. 1" = 5'
DATE:	APRIL 2012
KCI JOB NO.:	01-081795.43
CAPITAL PROJECT NO.:	D1158
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	

PLotted: 10/02/12, M. S. Wachsmuth, April 24, 2012
BY: Courtney Hupp, Division P030, Natural Resources
FILE: M:\2008\01081795.43_Verompa_VSD\mmod_sash_L_rev2.dgn



APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CHIEF, DIVISION OF LAND DEVELOPMENT DATE

DIRECTOR DATE

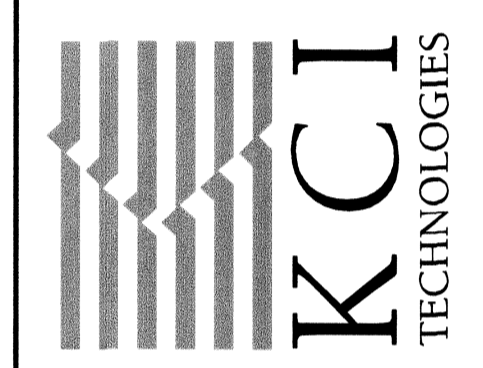
LEGEND

- EXISTING GROUND _____
- PROPOSED GRADE _____
- AS BUILT GRADE _____

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31201. EXPIRATION DATE: JANUARY 24, 2009

NO.	REVISIONS DESCRIPTION	DATE

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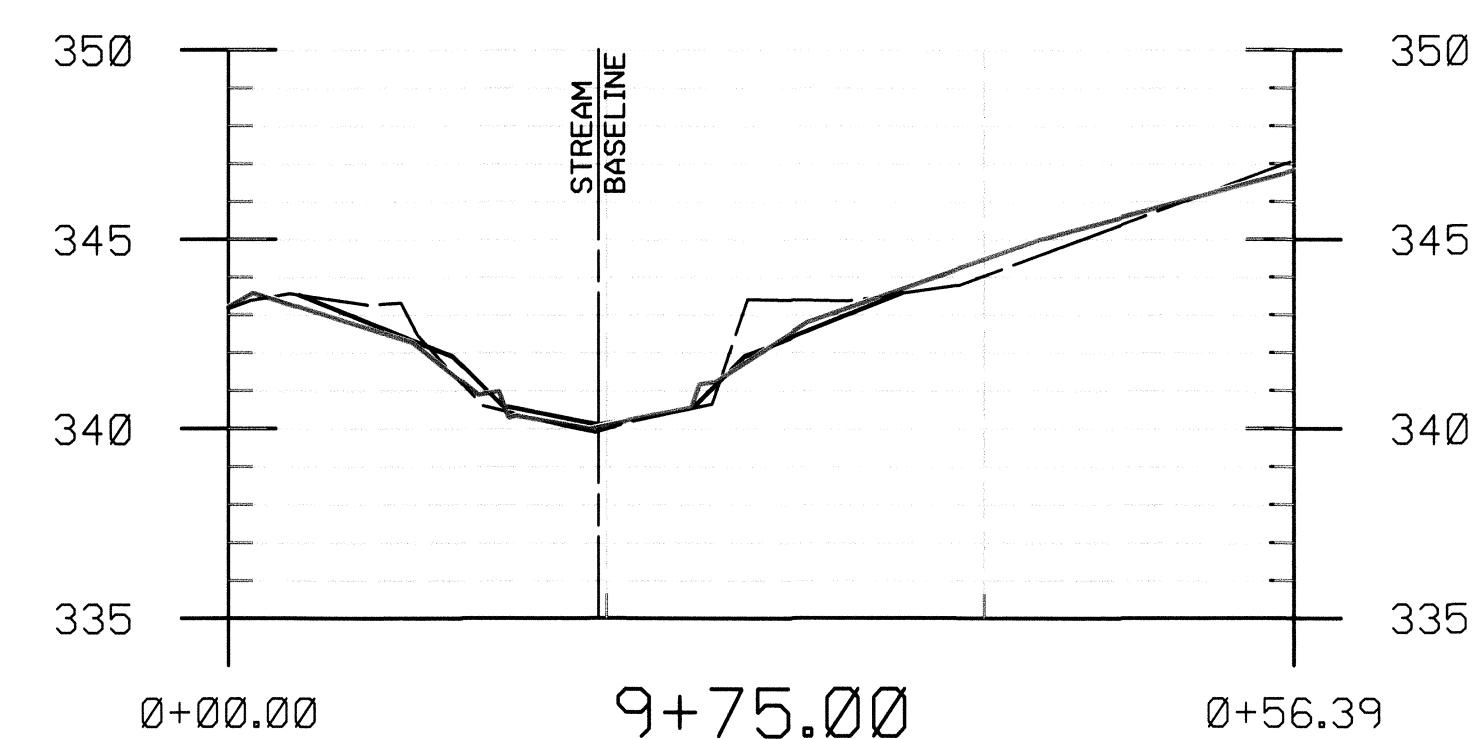
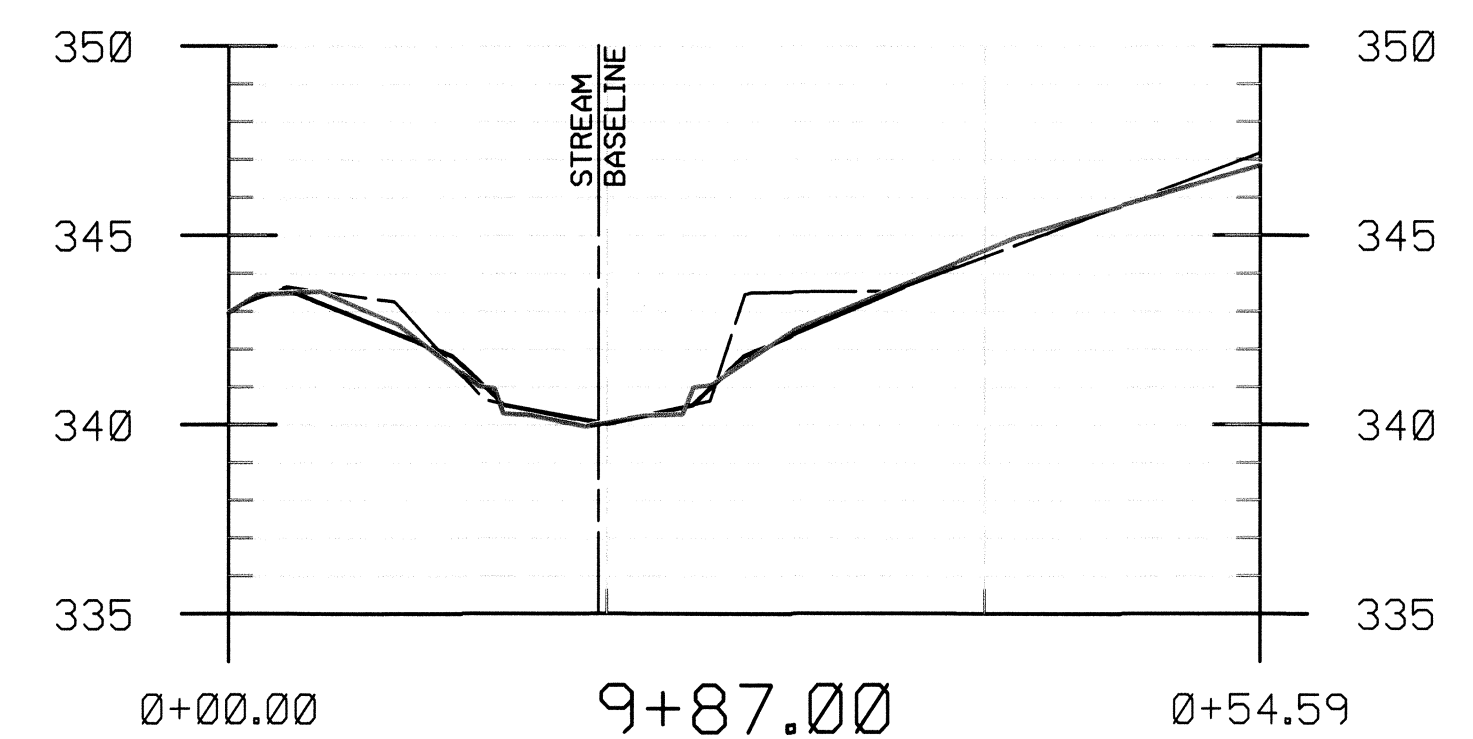
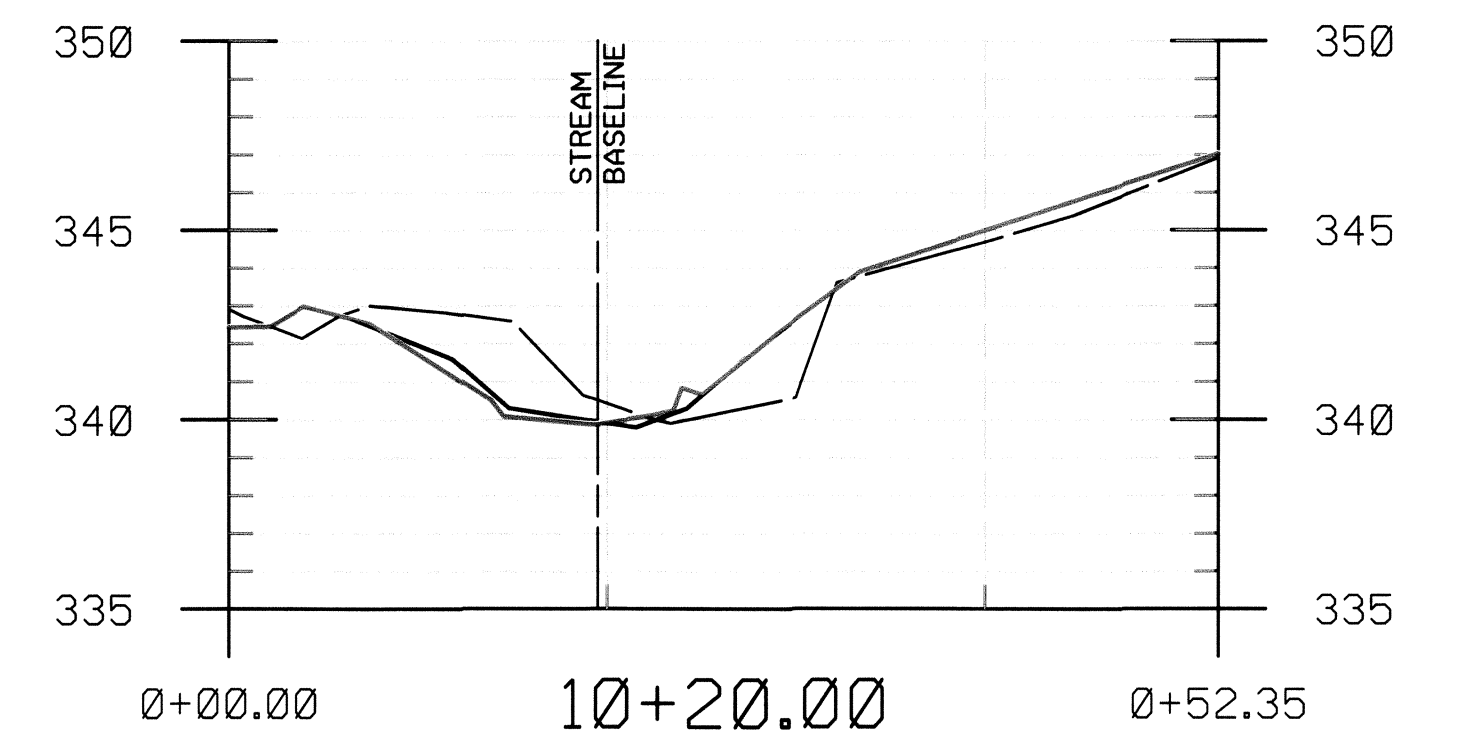
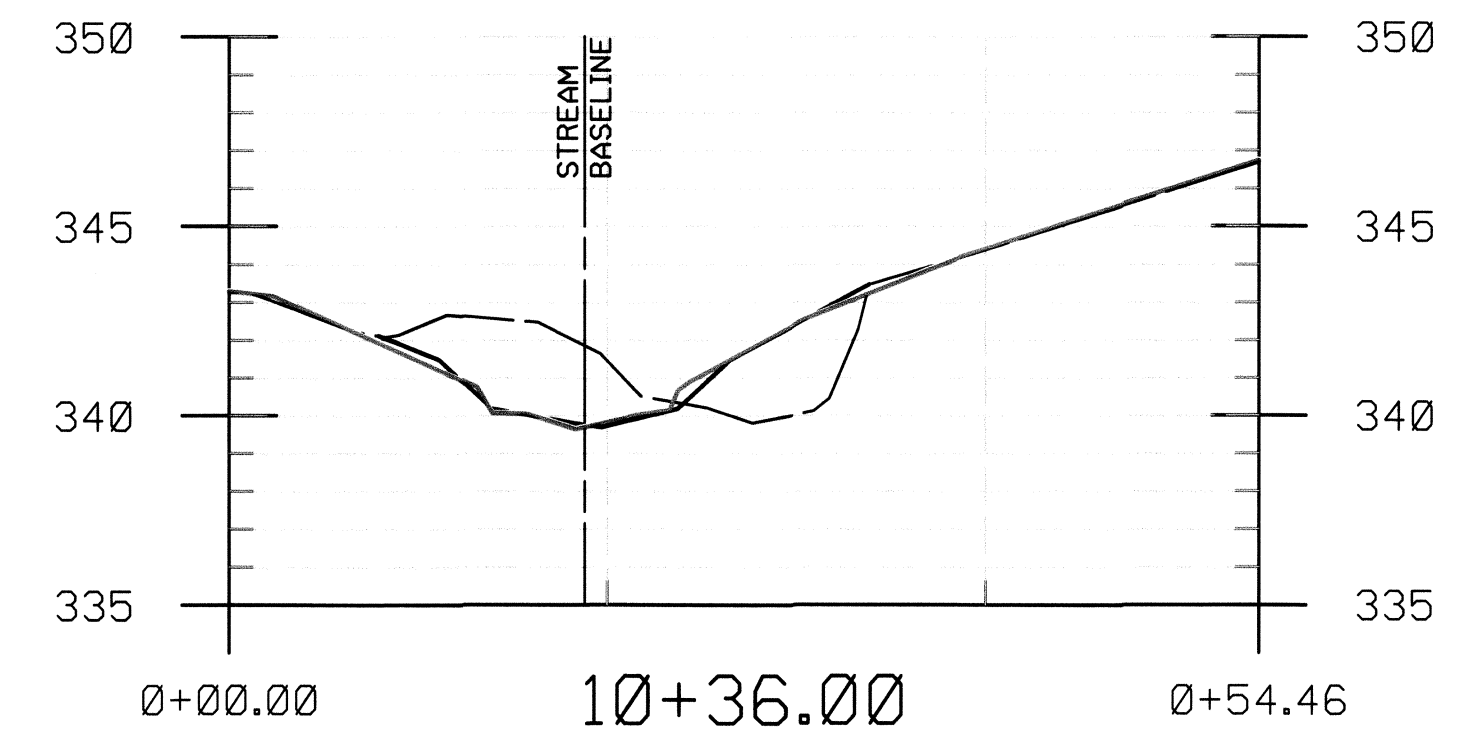
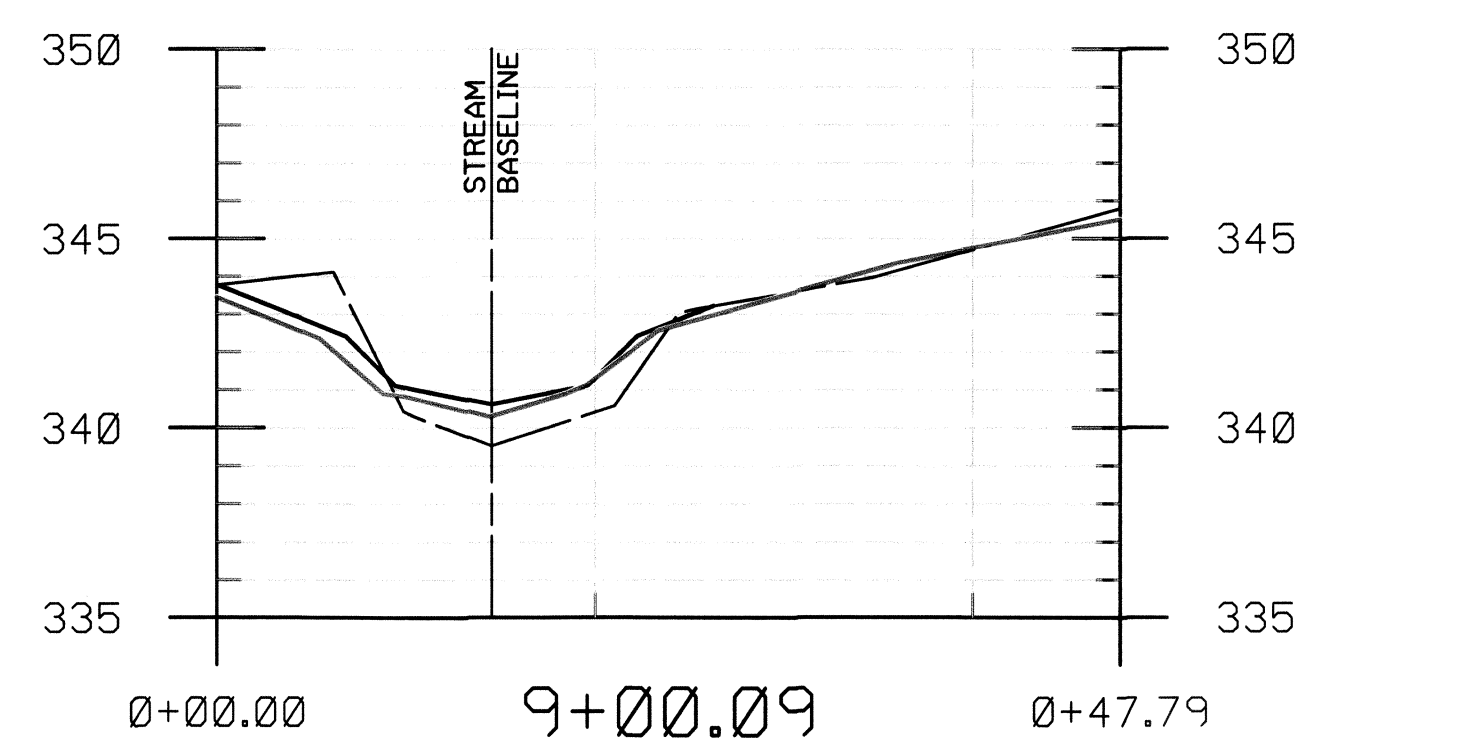
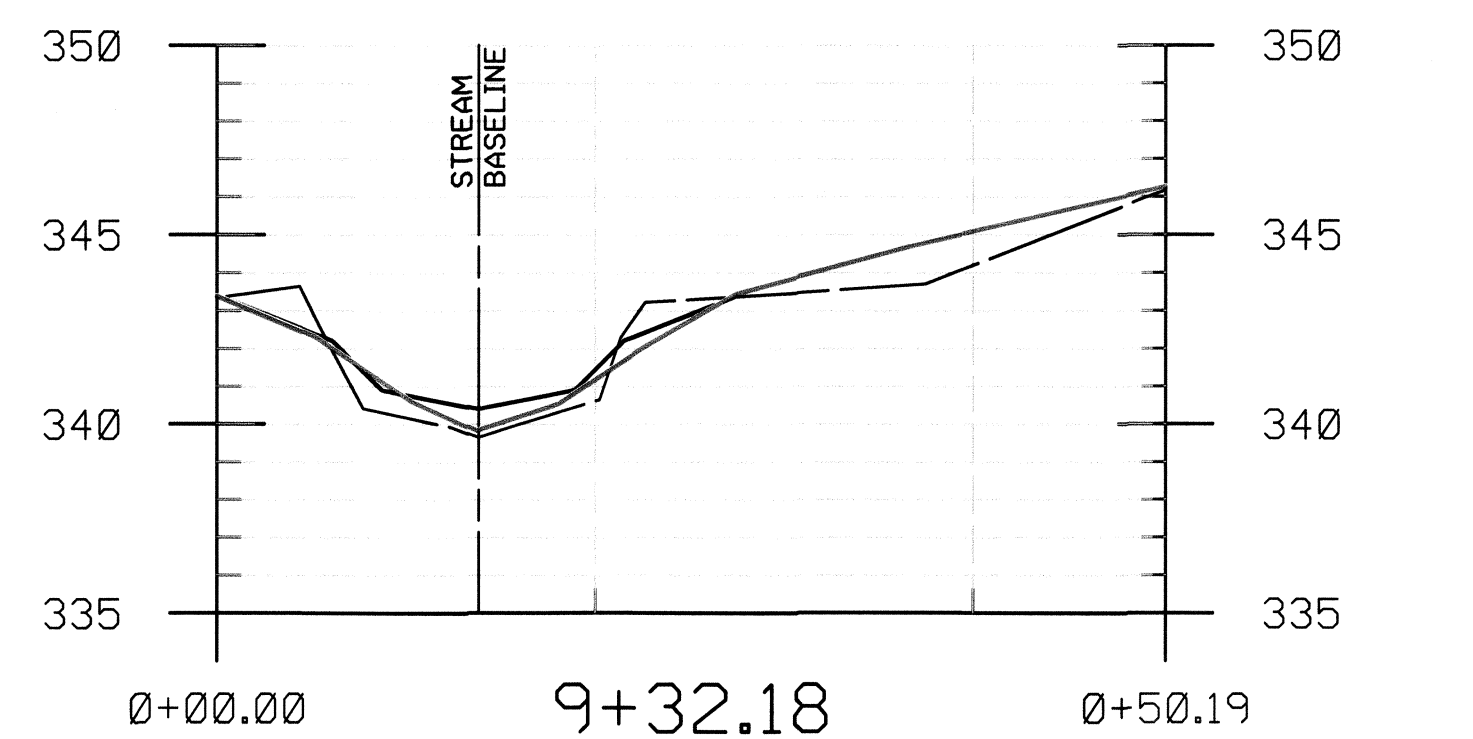
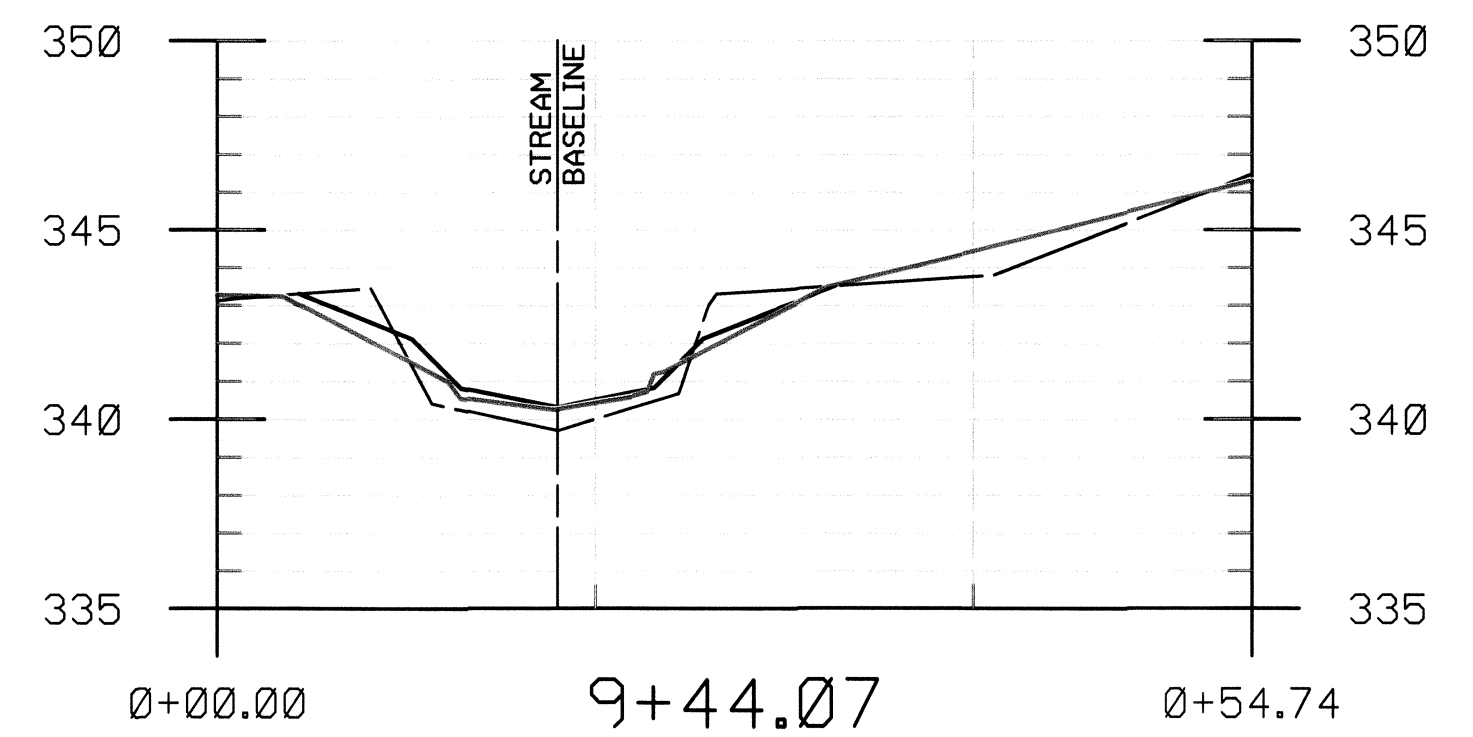
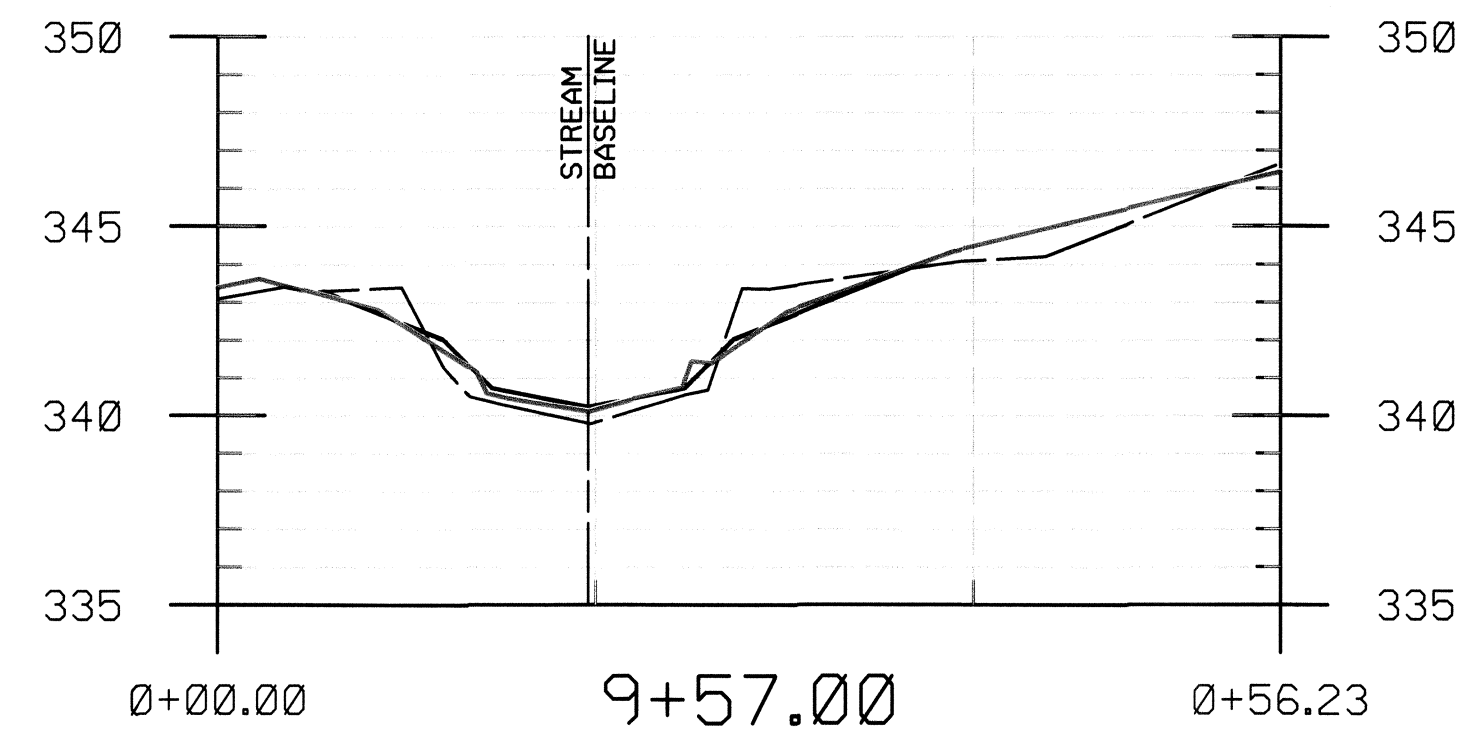
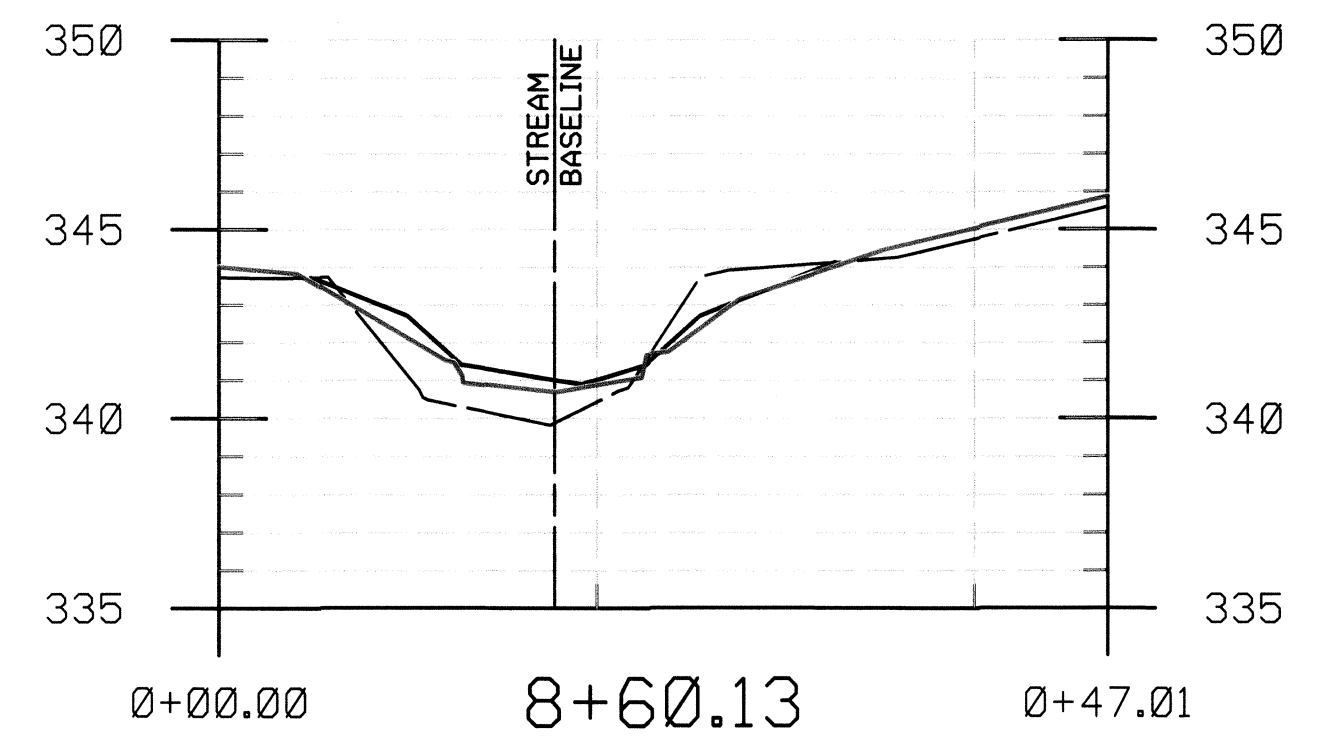
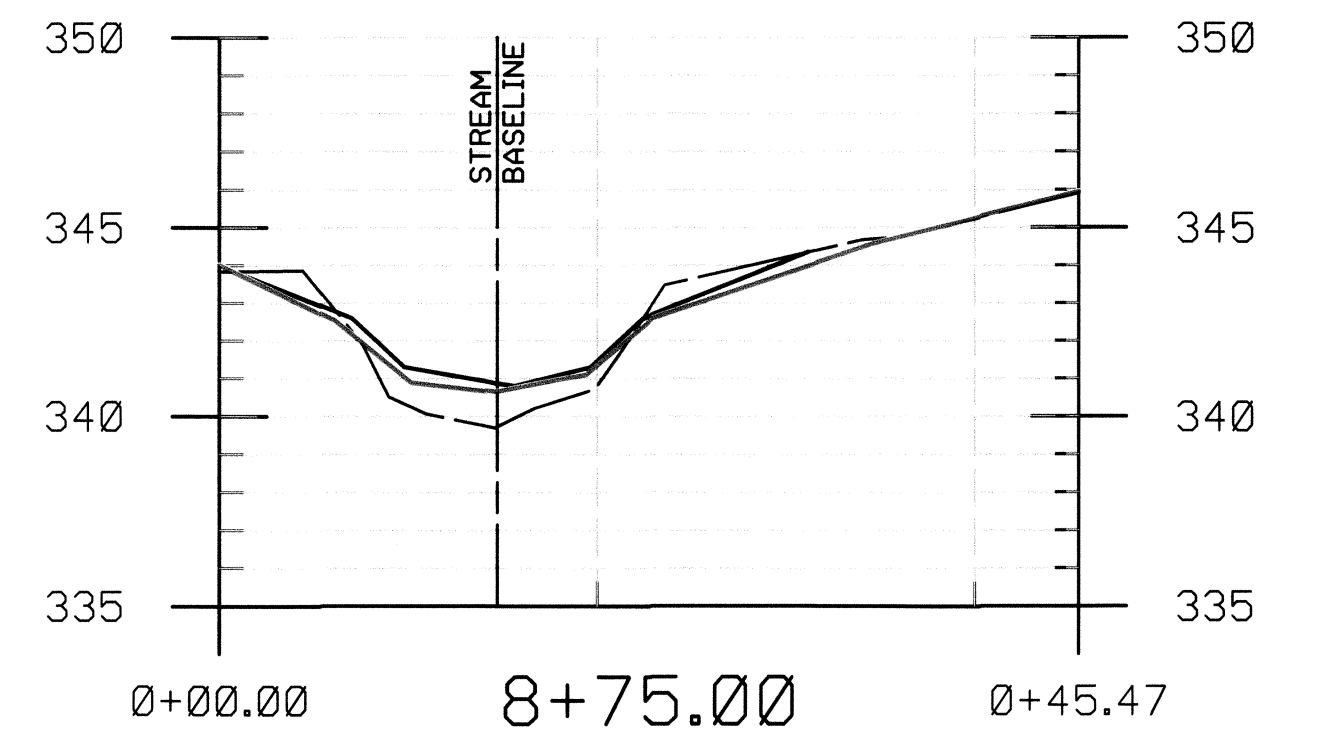
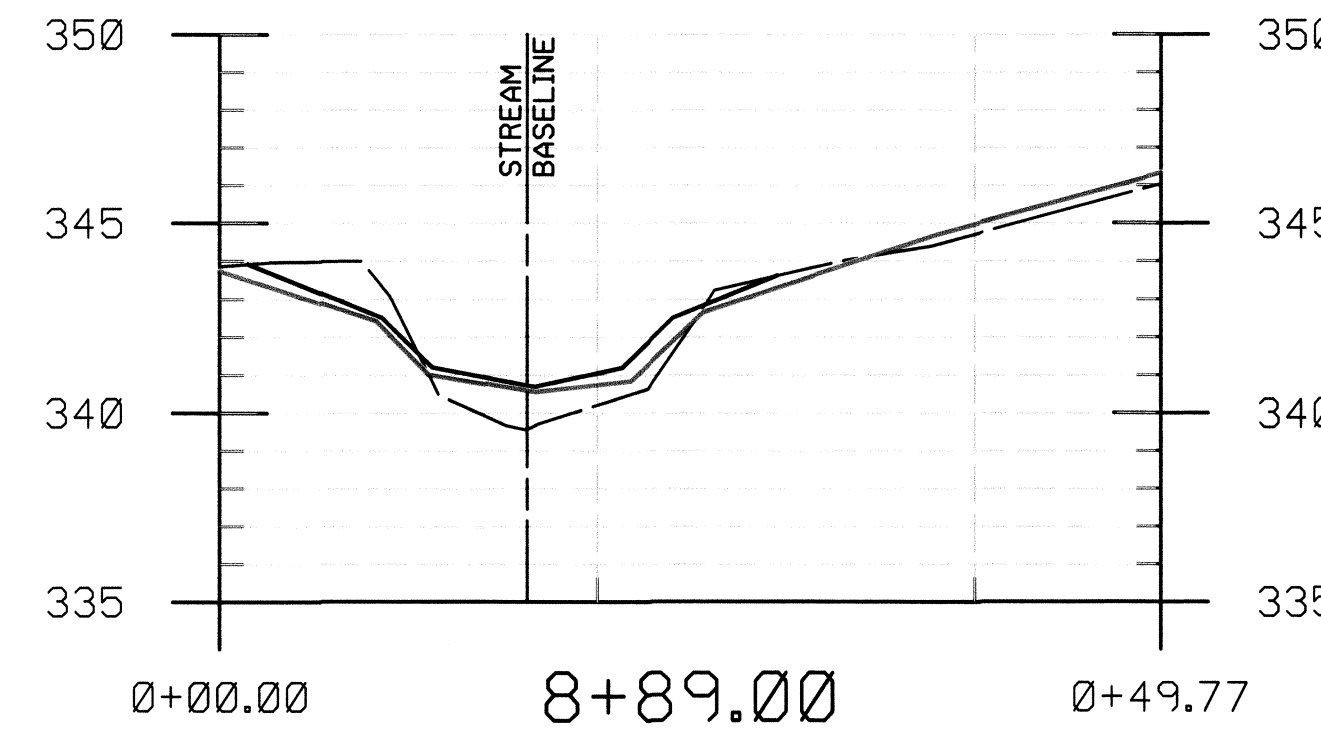
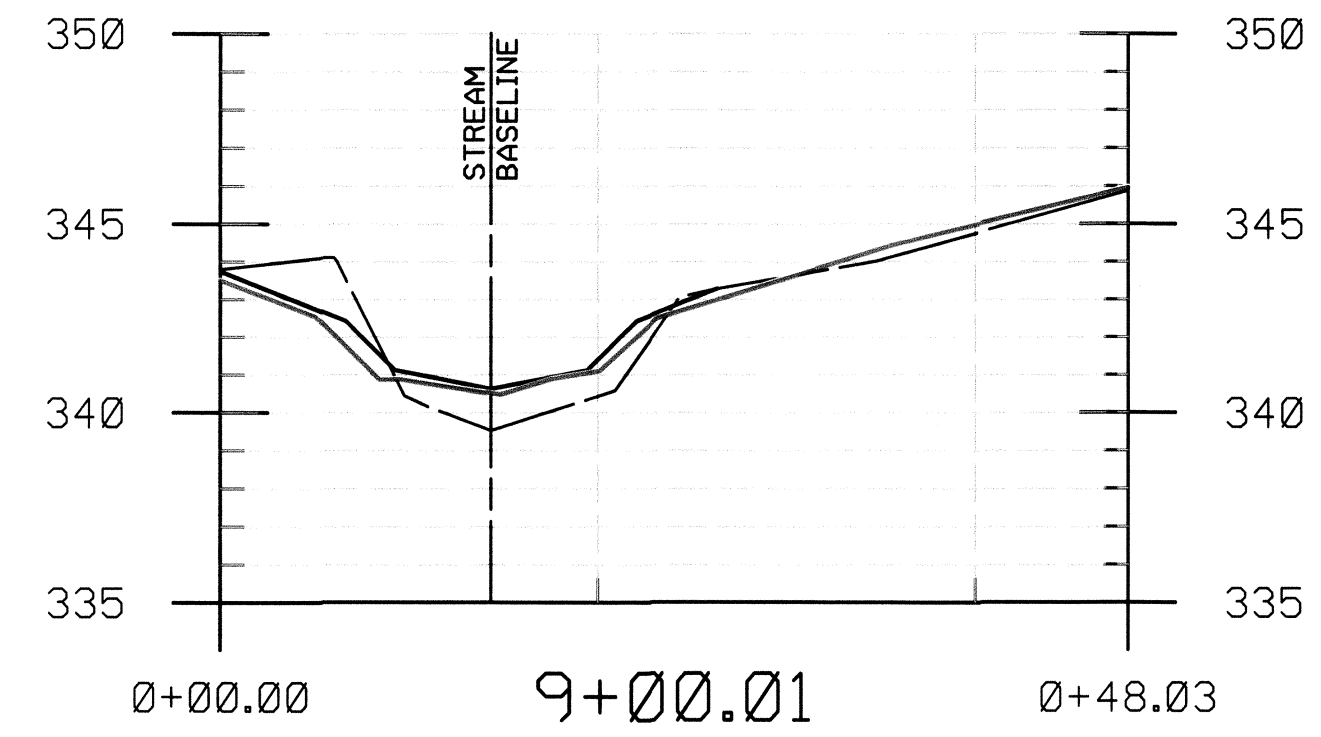
**MEADOWBROOK PARK
STREAM RESTORATION PROJECT**

CAPITAL PROJECT D-168
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
STORMWATER MANAGEMENT DIVISION
6751 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046

**AS-BUILT
CROSS
SECTIONS**

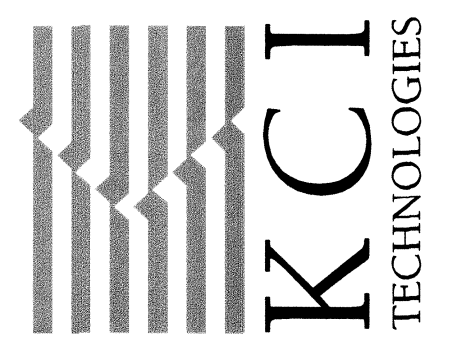
SCALE:	HOR. 1" = 10'
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DATE:	APRIL 2012
KCIJOB NO.:	01-081795.43
CAPITAL PROJECT NO.:	D1158
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	

PLOTTED: 09:30 AM on Wednesday, April 25, 2012
 BY: C:\Users\jhp\OneDrive\Public\Projects\2012\20120425\20120425.dwg
 FILE: M:\2012\0425\20120425.dwg



NO.	REVISIONS DESCRIPTION	DATE

10 NORTH PARK DRIVE
HUNT VALLEY, MD 21030
PHONE: (410) 316-7800
FAX: (410) 316-7817
WWW.KCI.COM



MEADOWBROOK PARK
STREAM RESTORATION PROJECT
CAPITAL PROJECT D-1158
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
8751 WASHINGTON GATEWAY DRIVE
COLUMBIA, MARYLAND 21046

**AS-BUILT
CROSS
SECTIONS**

SCALE:	HOR. 1" = 10' VERT. 1" = 5'
DATE:	APRIL 2012
KCI JOB NO.:	01-081795.43
CAPITAL PROJECT NO.:	D1158
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

CHIEF, DIVISION OF LAND DEVELOPMENT DATE

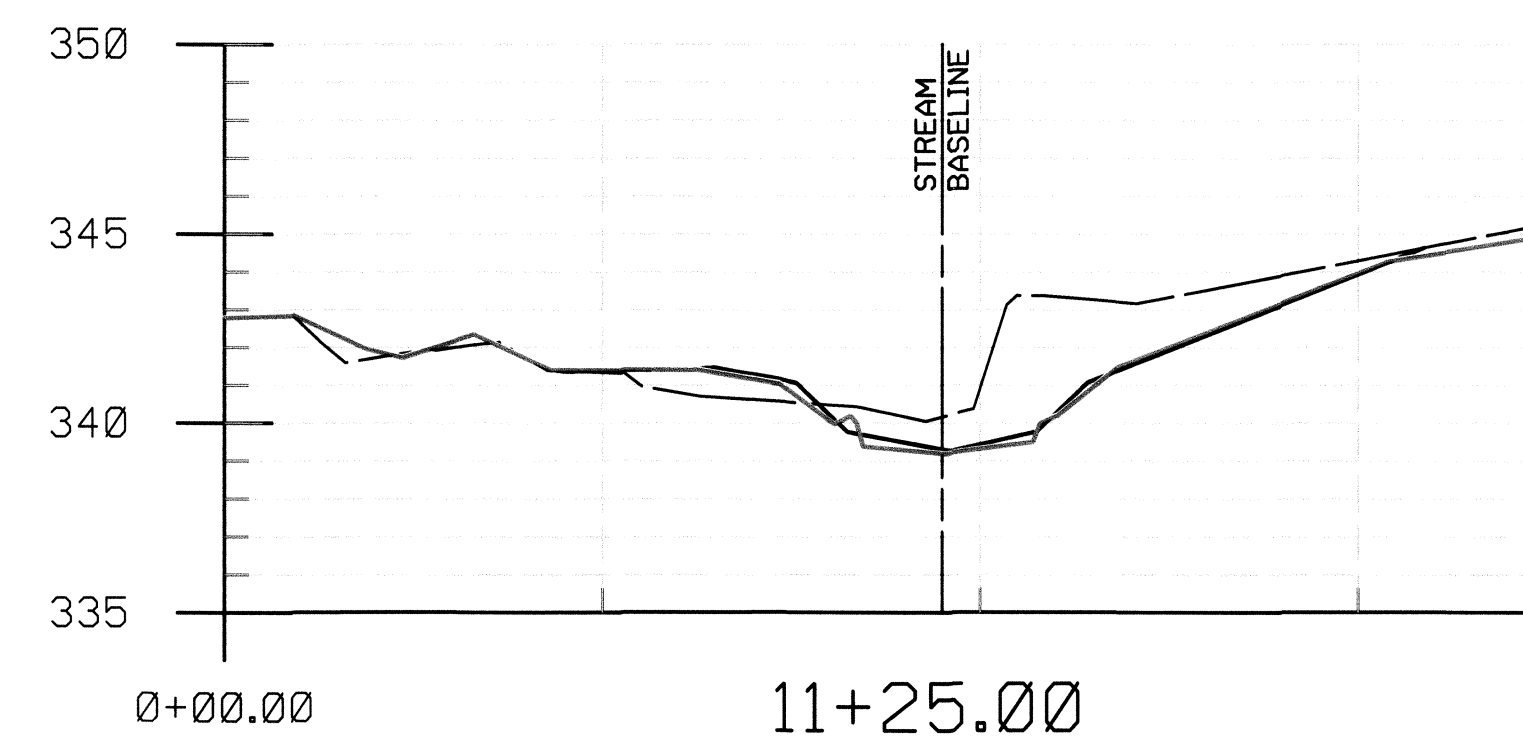
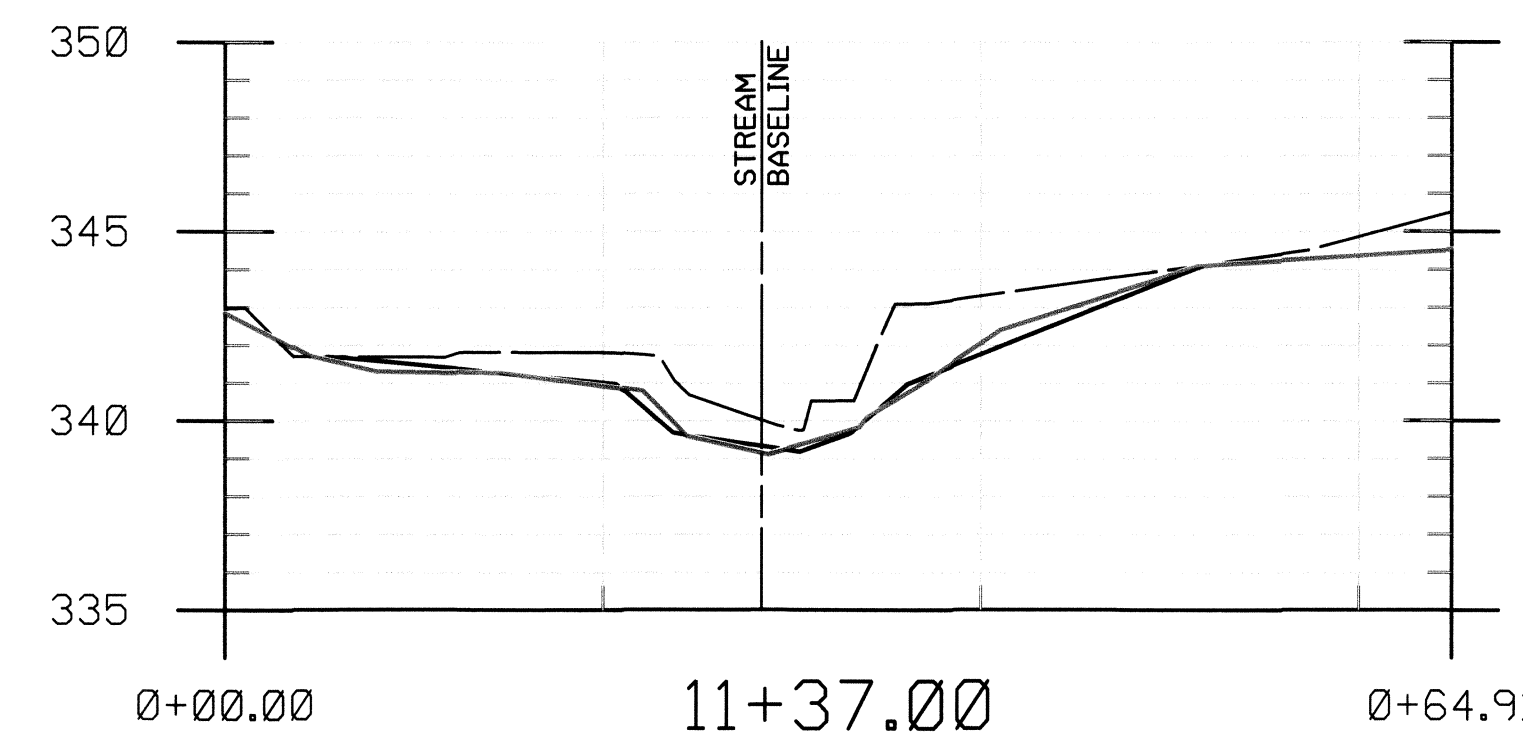
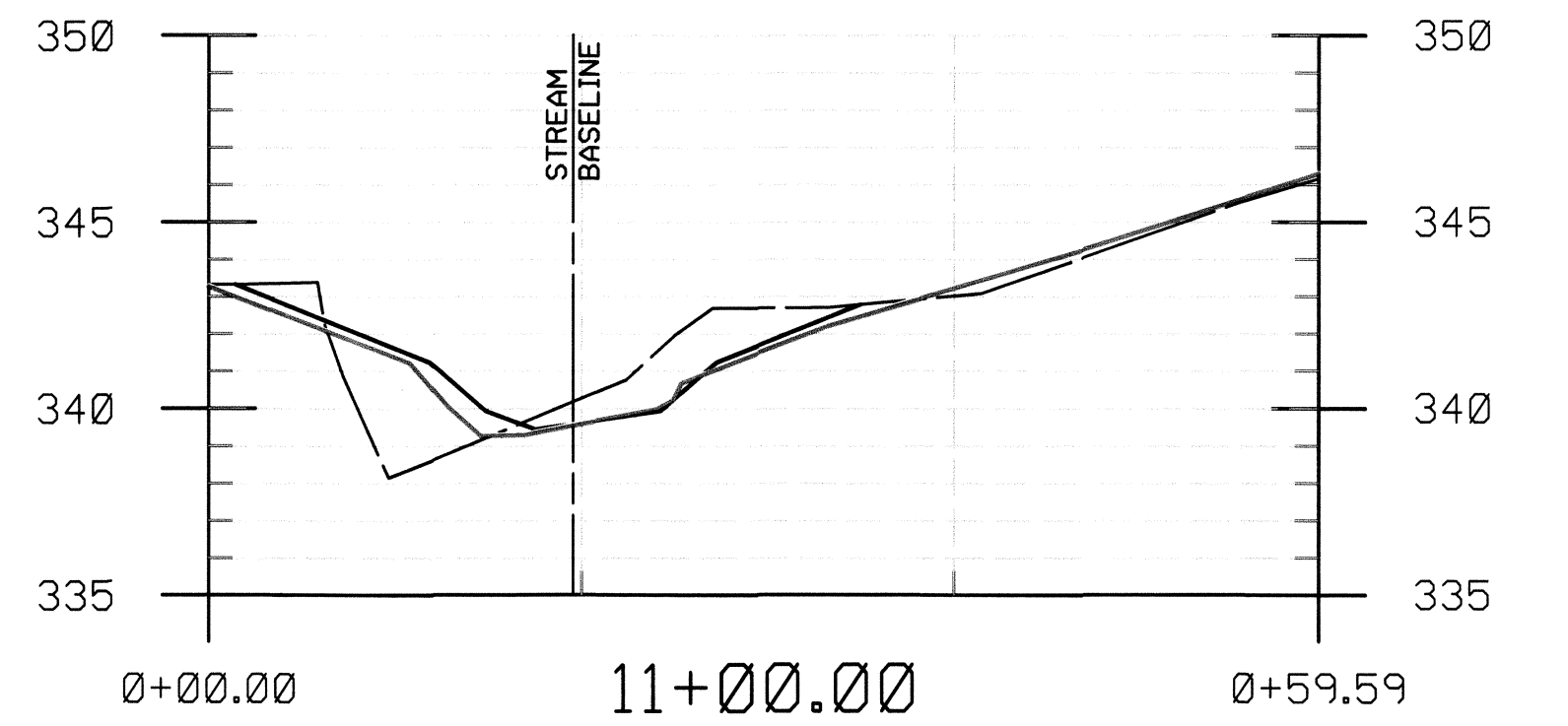
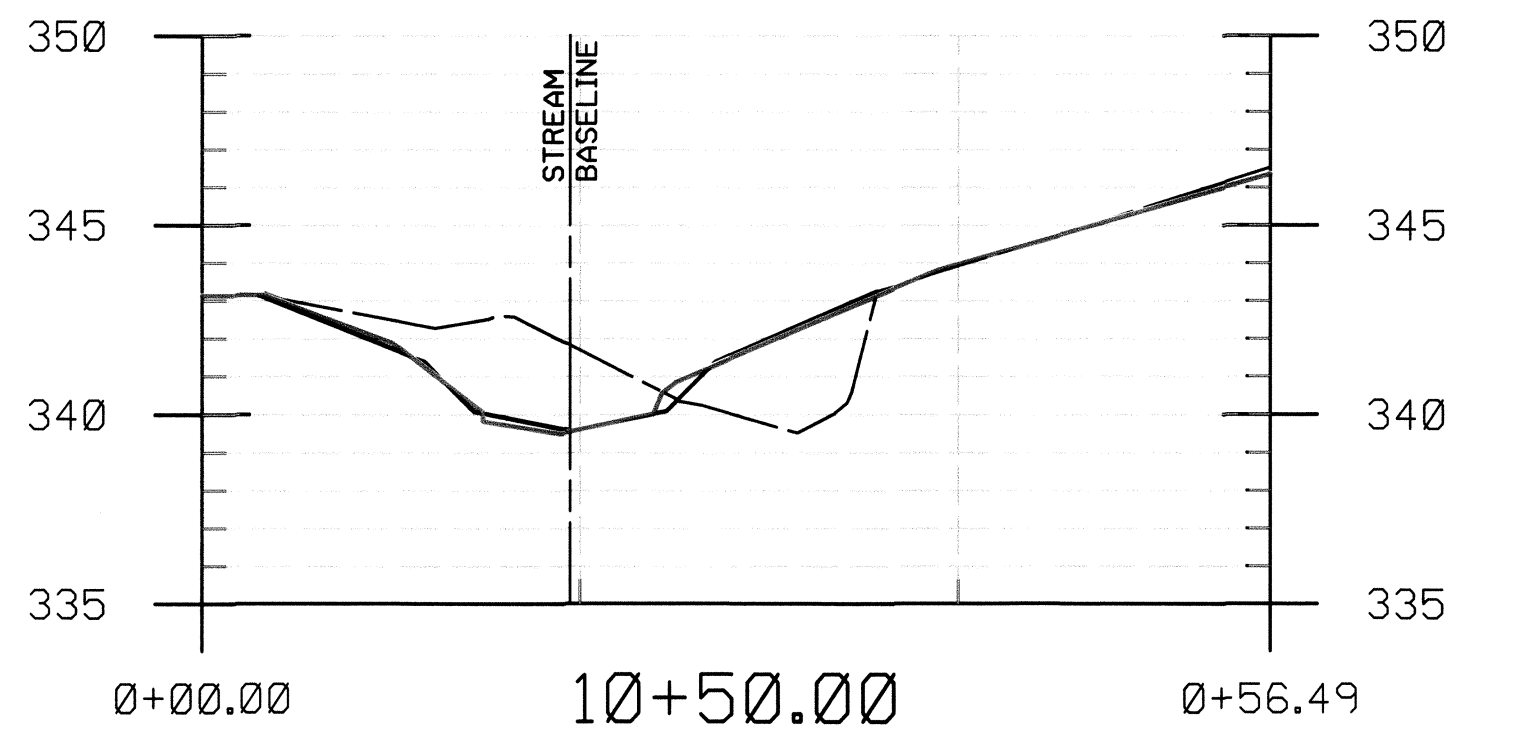
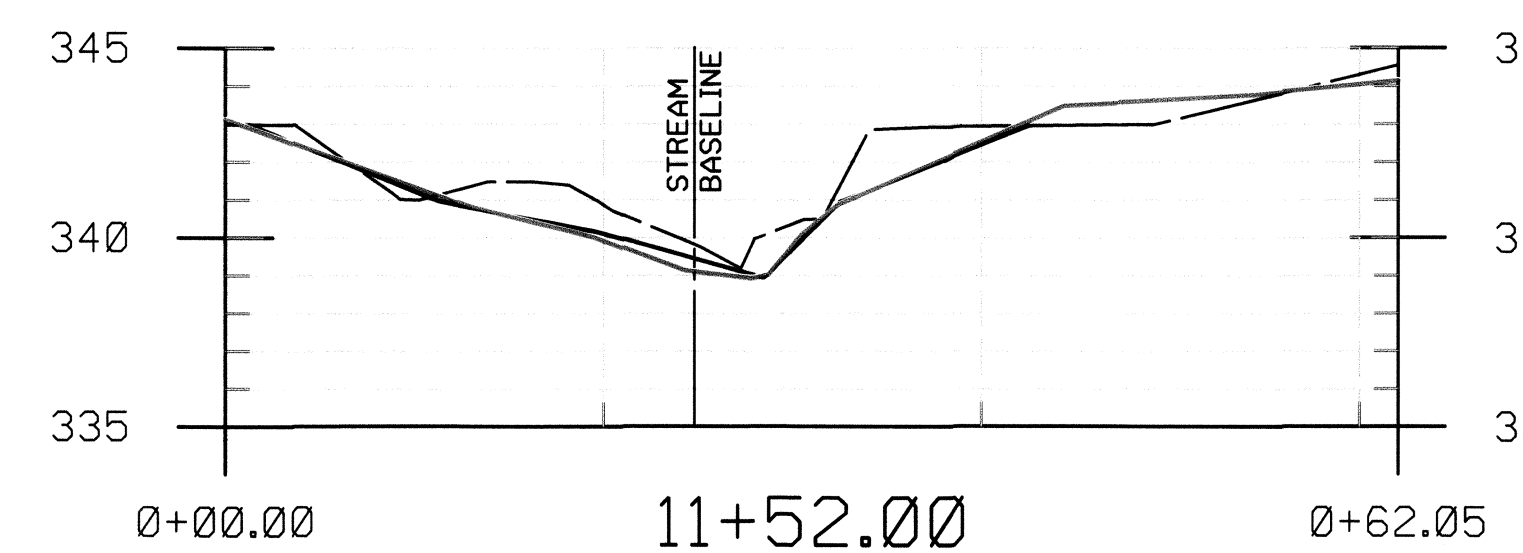
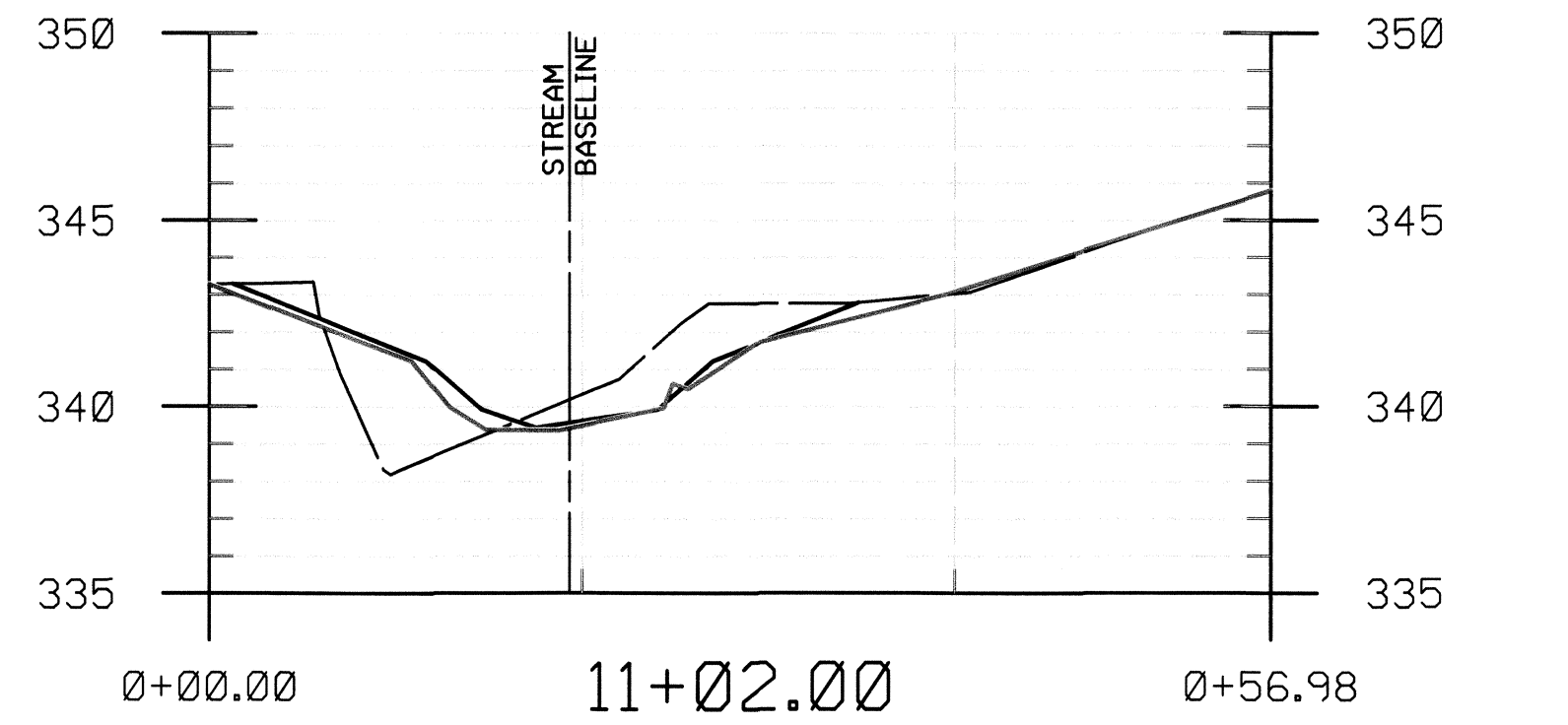
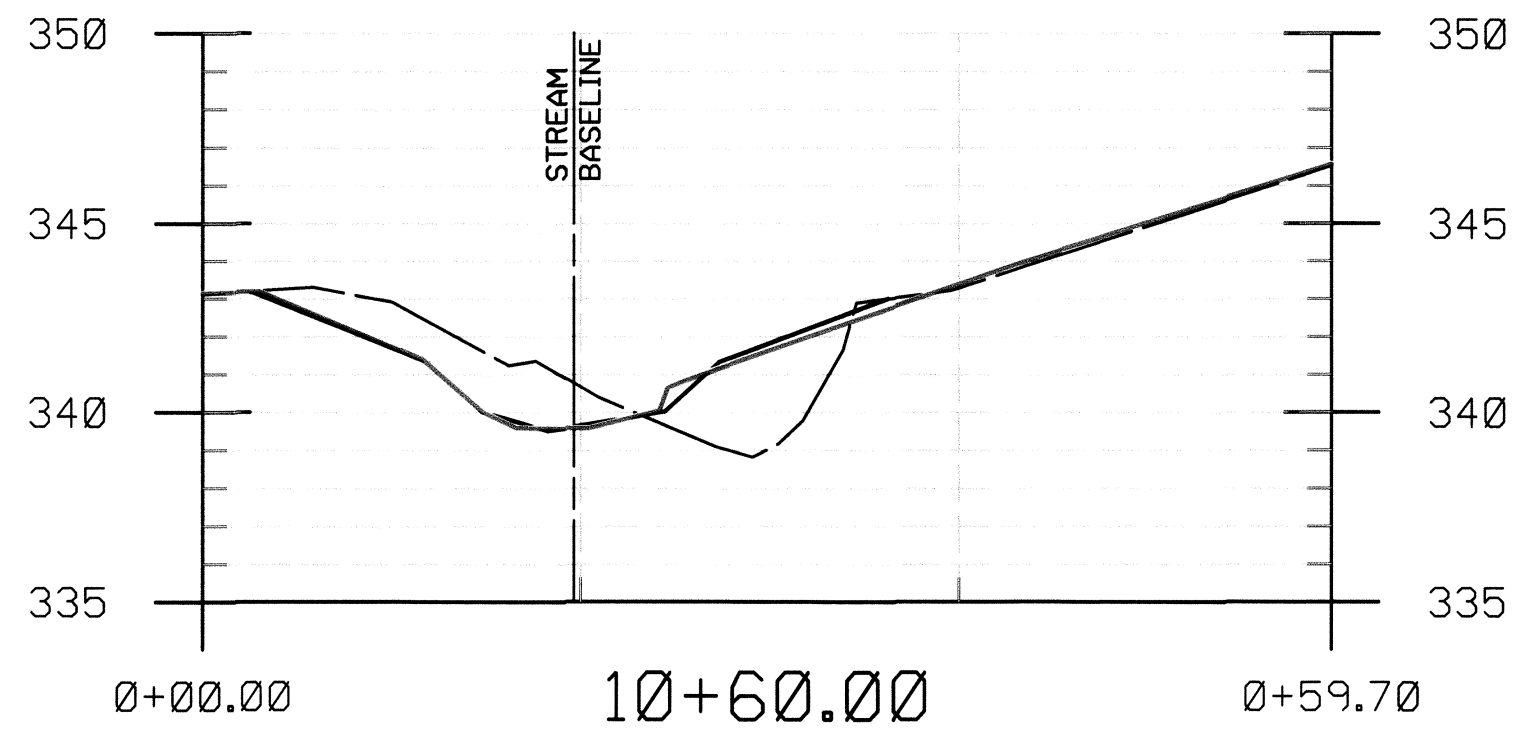
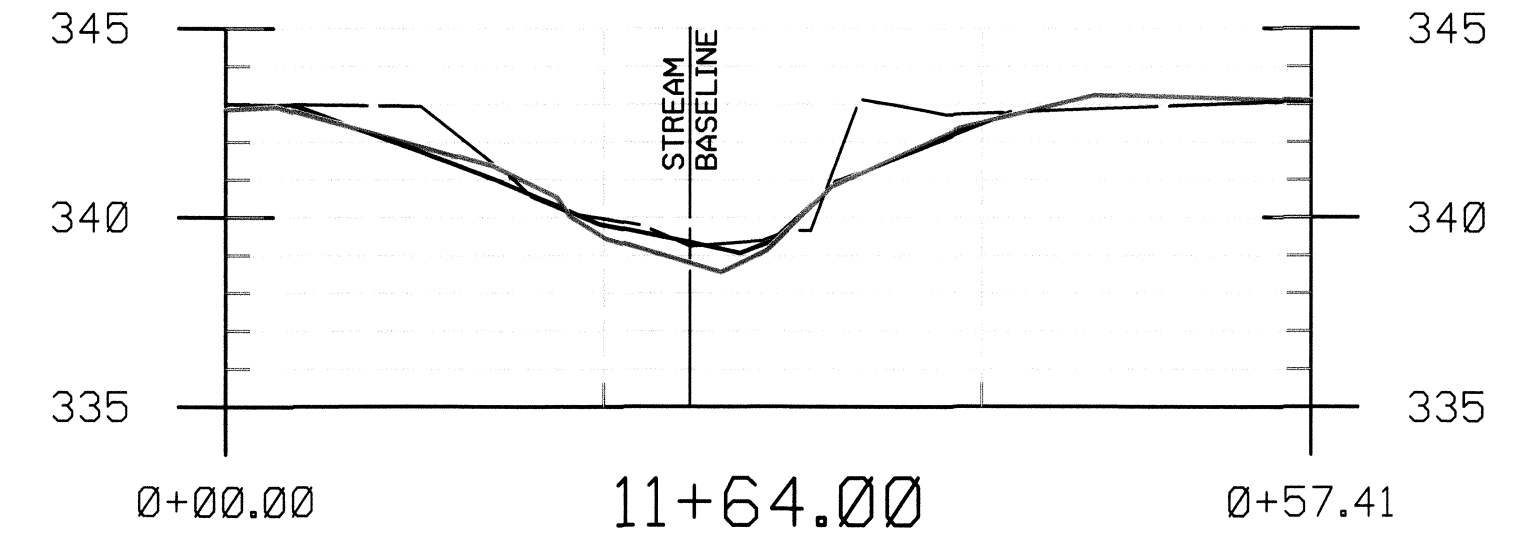
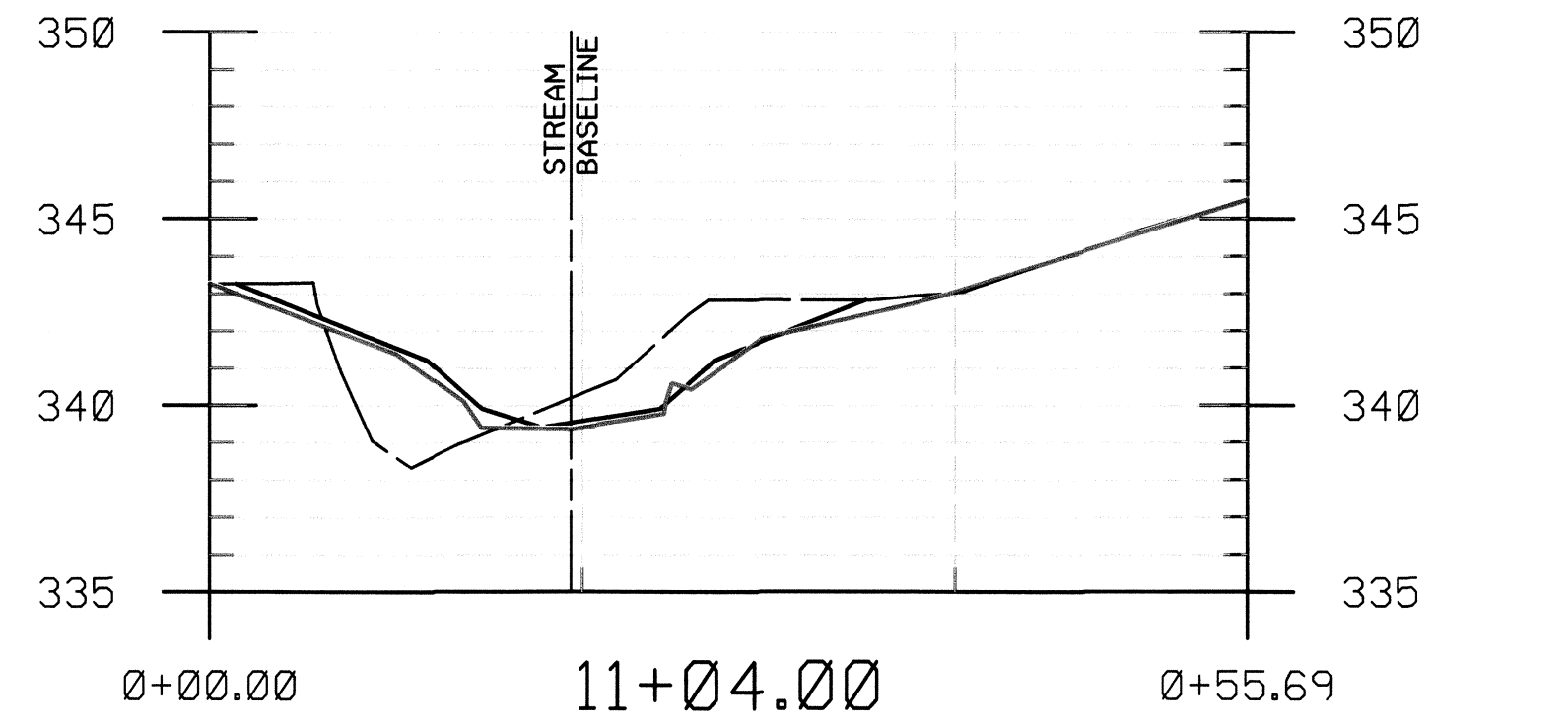
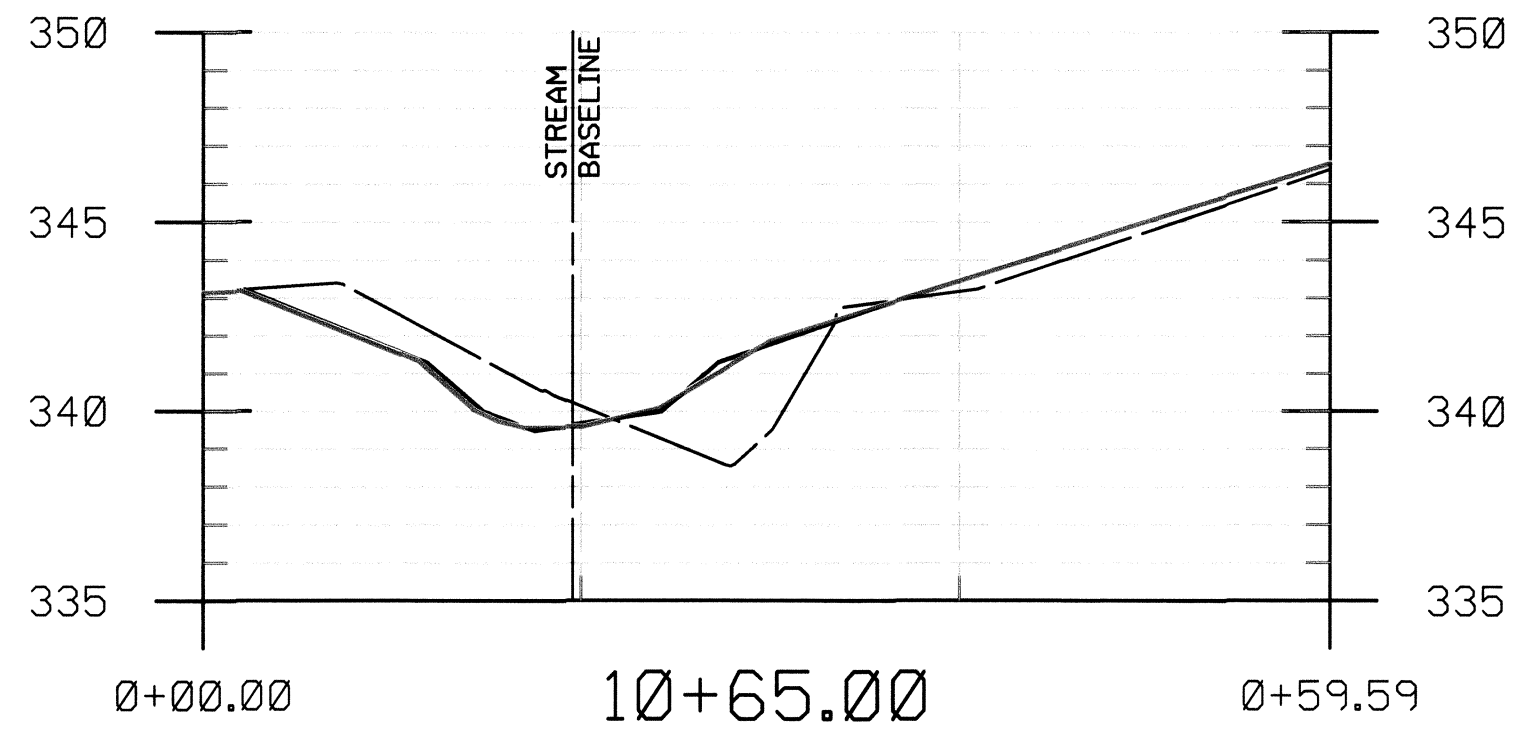
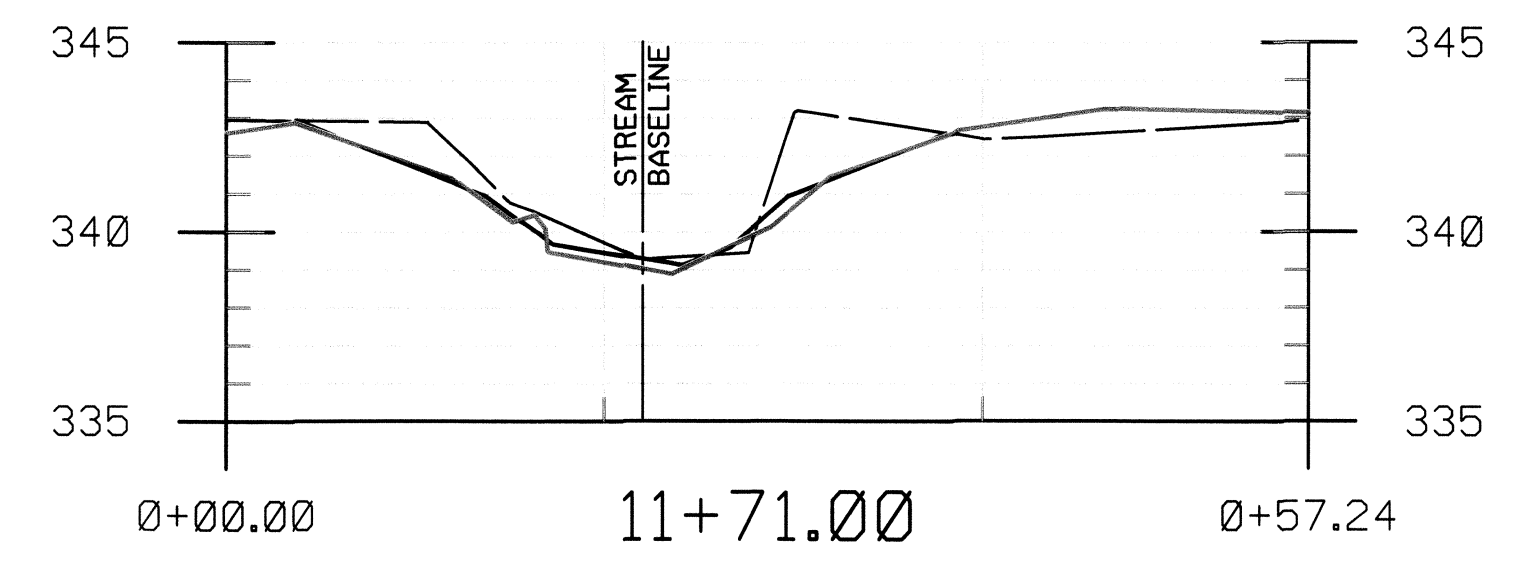
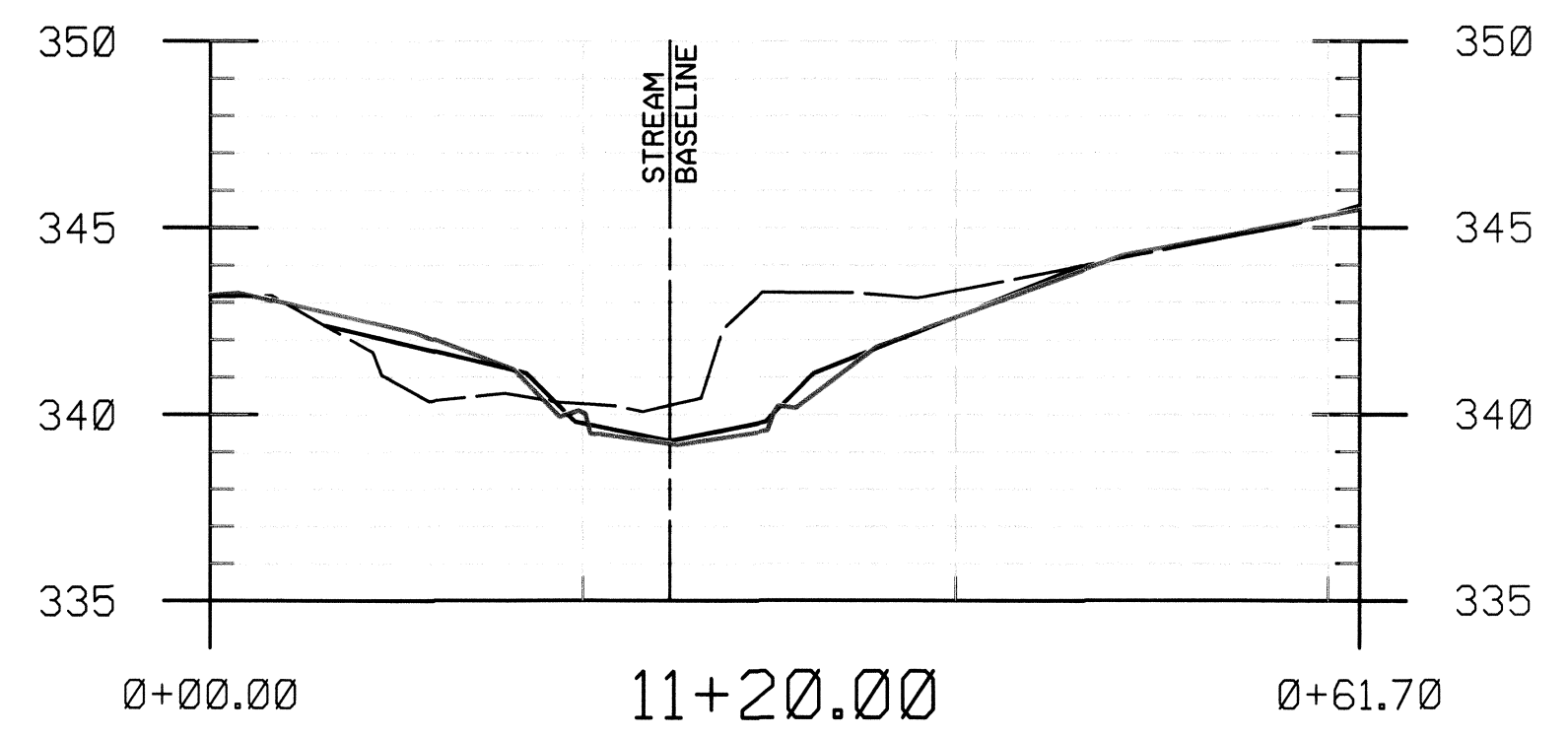
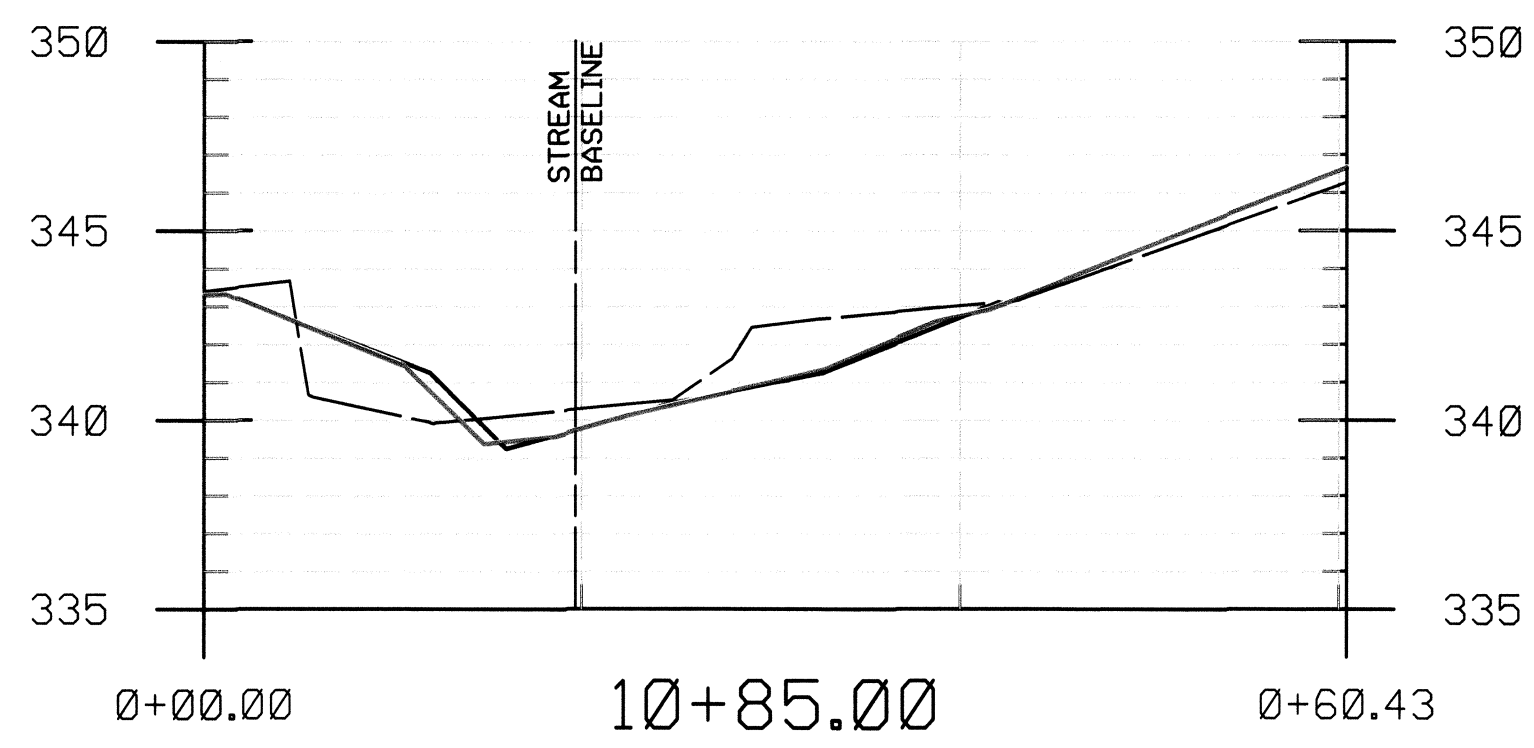
DIRECTOR DATE

LEGEND

EXISTING GROUND	— — — — —
PROPOSED GRADE	—————
AS BUILT GRADE	—————

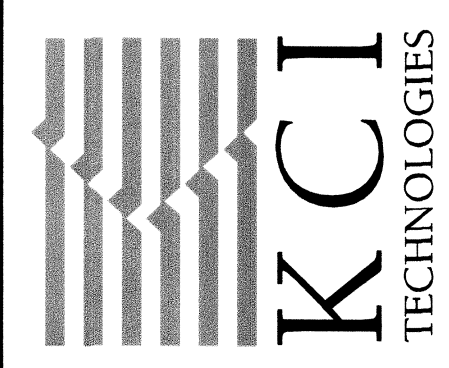
PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31201. EXPIRATION DATE: JANUARY 24, 2009

PLOT: 100-30... AM... on... 4/25/12... FILE: M:\2008\01081795.43\Drawings\CAD\Sheet_Cross_Sect.dgn



NO.	REVISIONS DESCRIPTION	DATE

10 NORTH PARK DRIVE
 HUNT VALLEY, MD 21030
 PHONE: (410) 316-7800
 FAX: (410) 316-7817
 WWW.KCI.COM



MEADOWBROOK PARK
 STREAM RESTORATION PROJECT
 CAPITAL PROJECT D-1158
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 6751 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046

AS-BUILT
 CROSS
 SECTIONS

SCALE:	HOR. 1" = 10'
	VERT. 1" = 5'
DATE:	APRIL 2012
KCIJOB NO.:	01-081795.43
CAPITAL PROJECT NO.:	D1158
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE _____
 CHIEF, DIVISION OF LAND DEVELOPMENT DATE _____
 DIRECTOR DATE _____

LEGEND

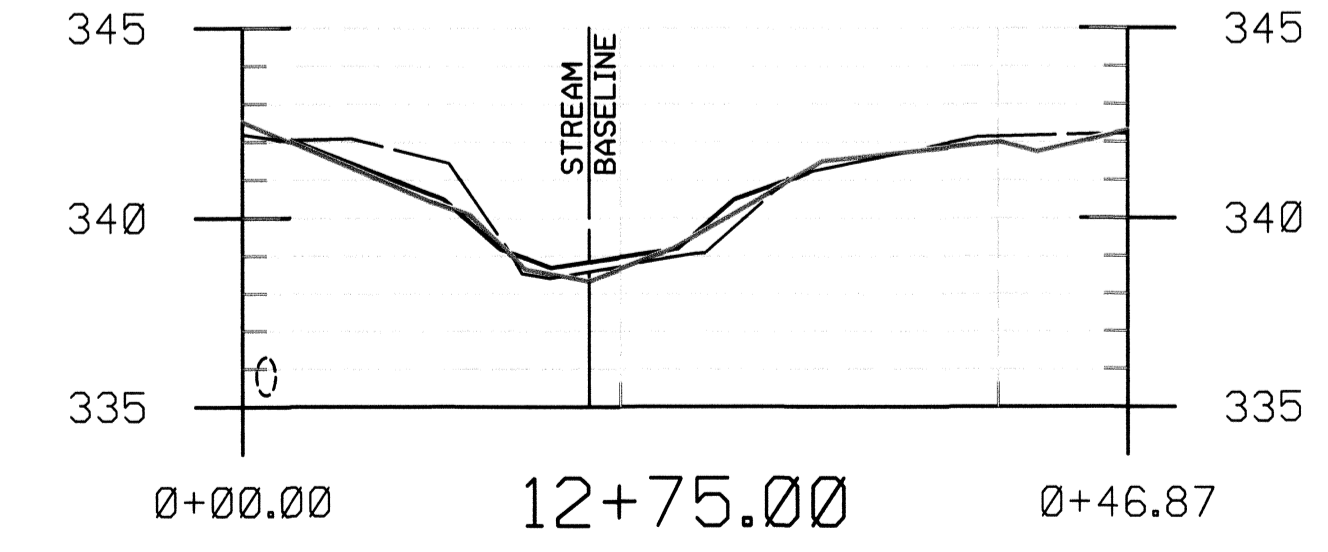
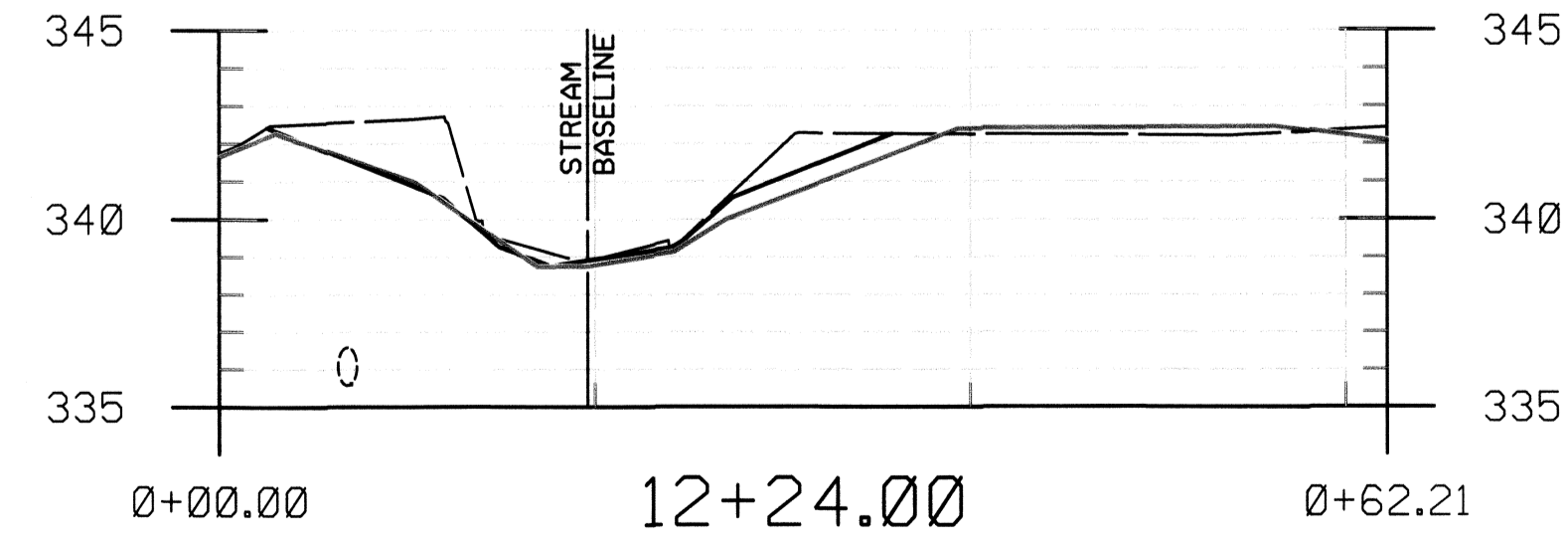
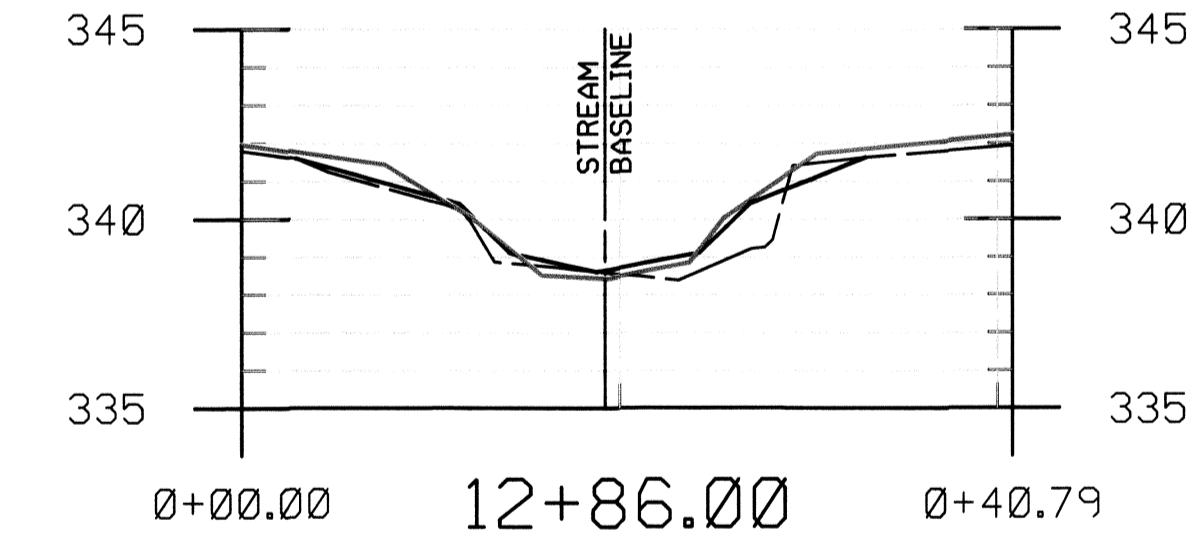
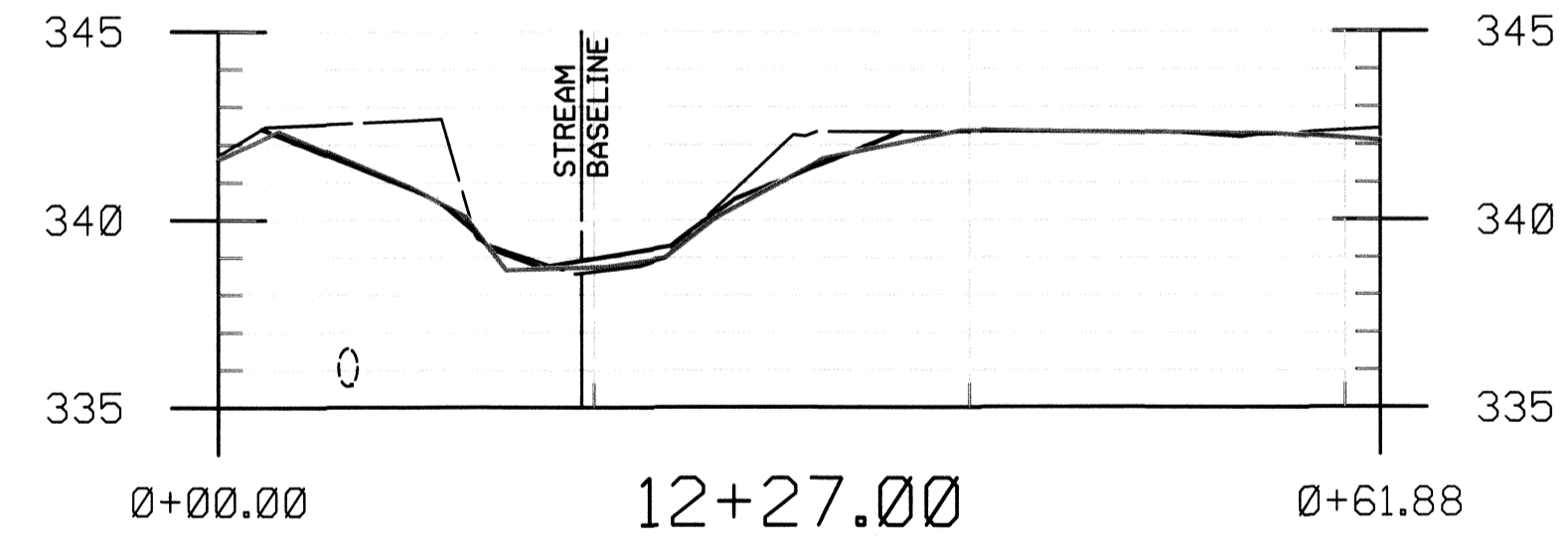
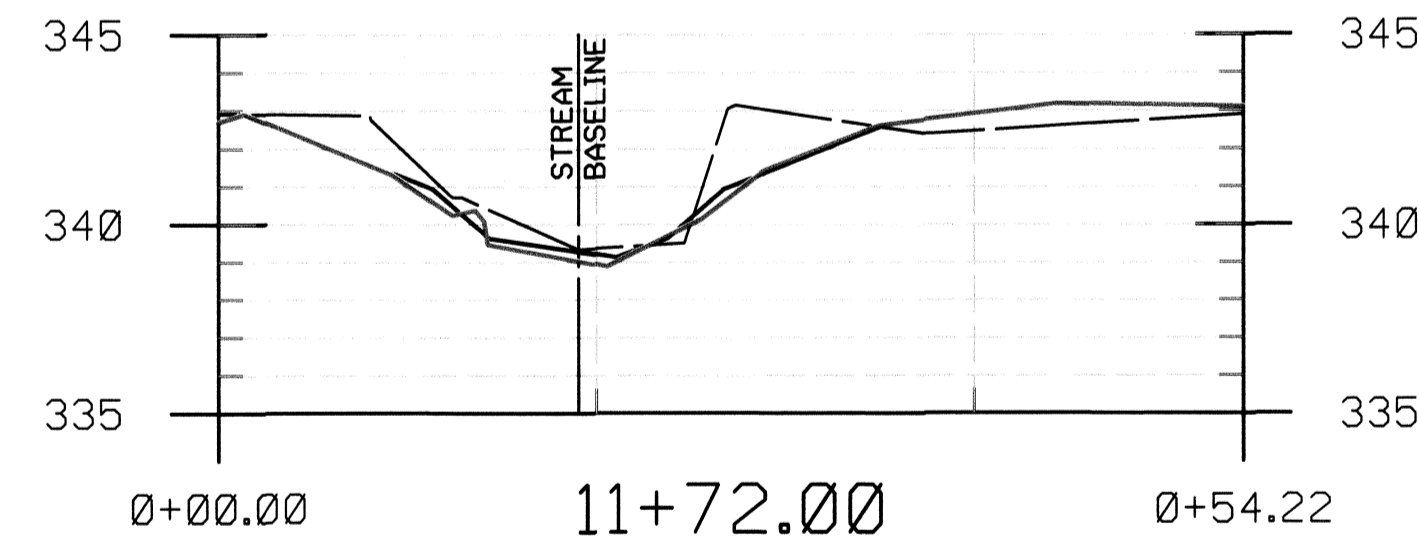
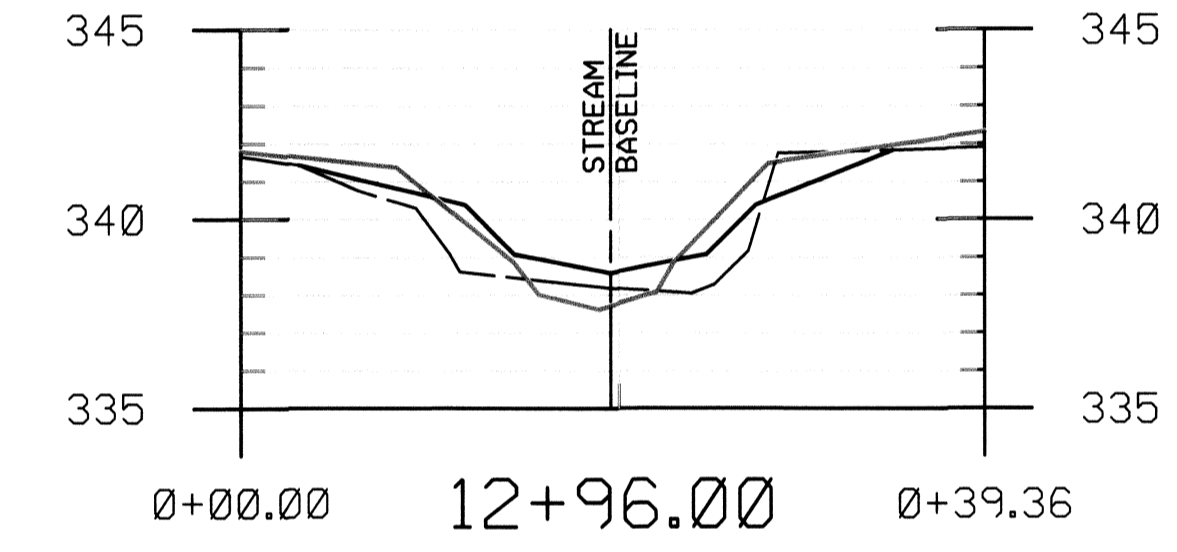
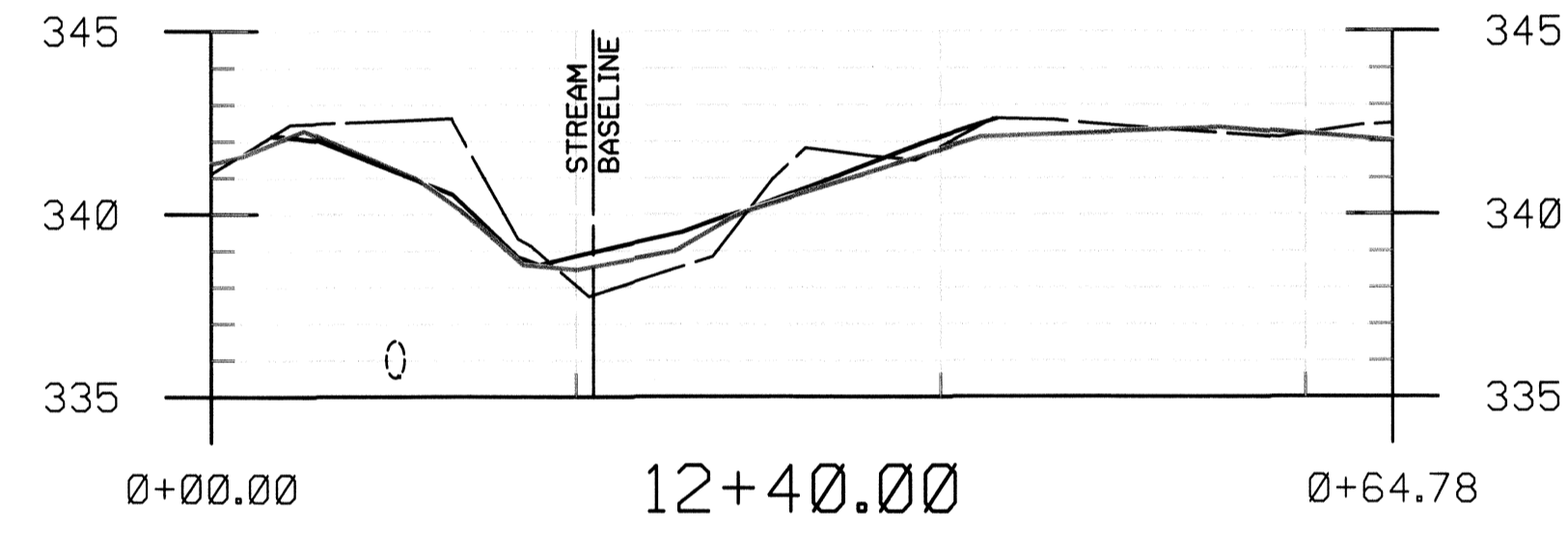
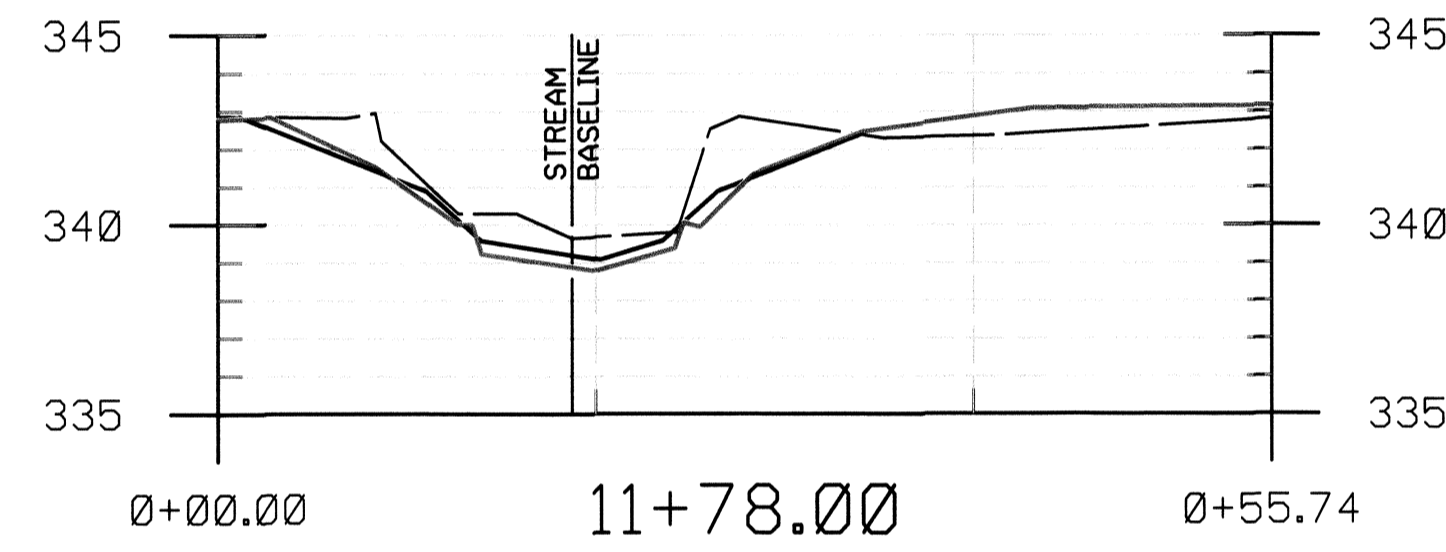
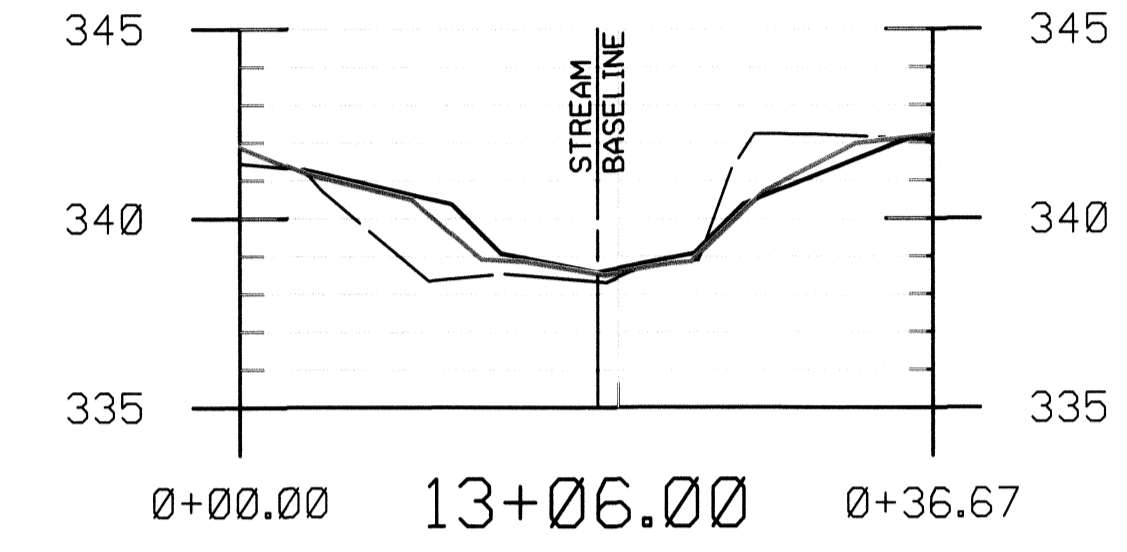
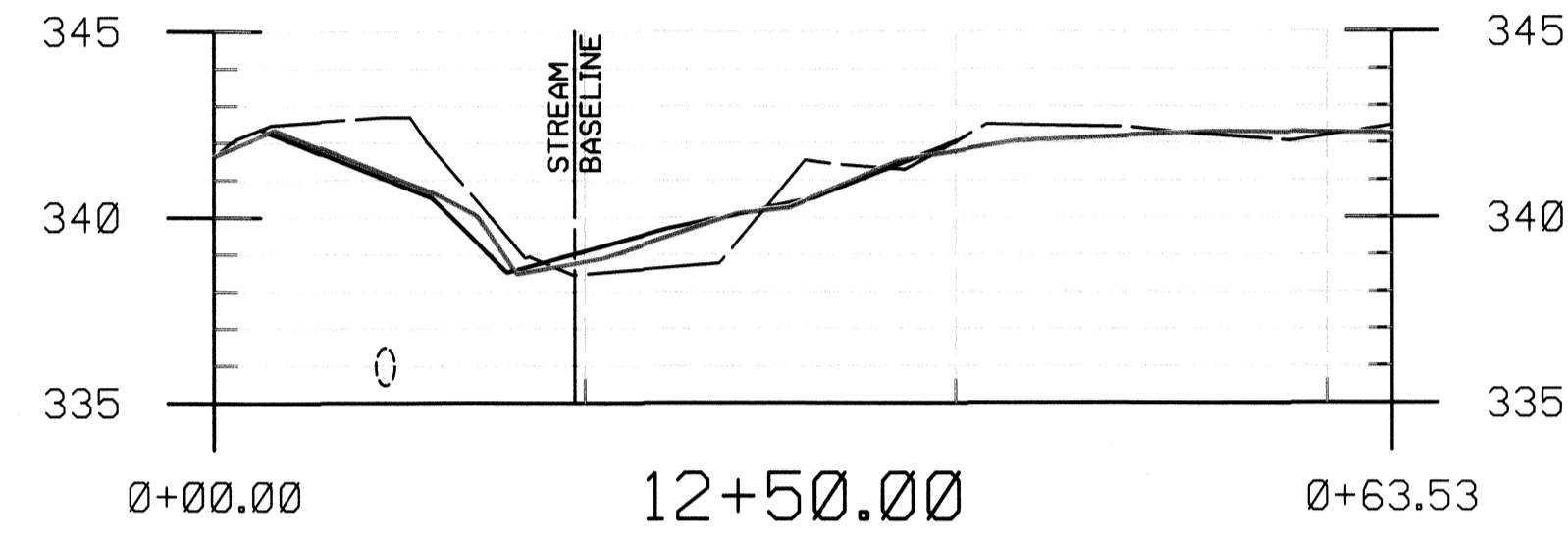
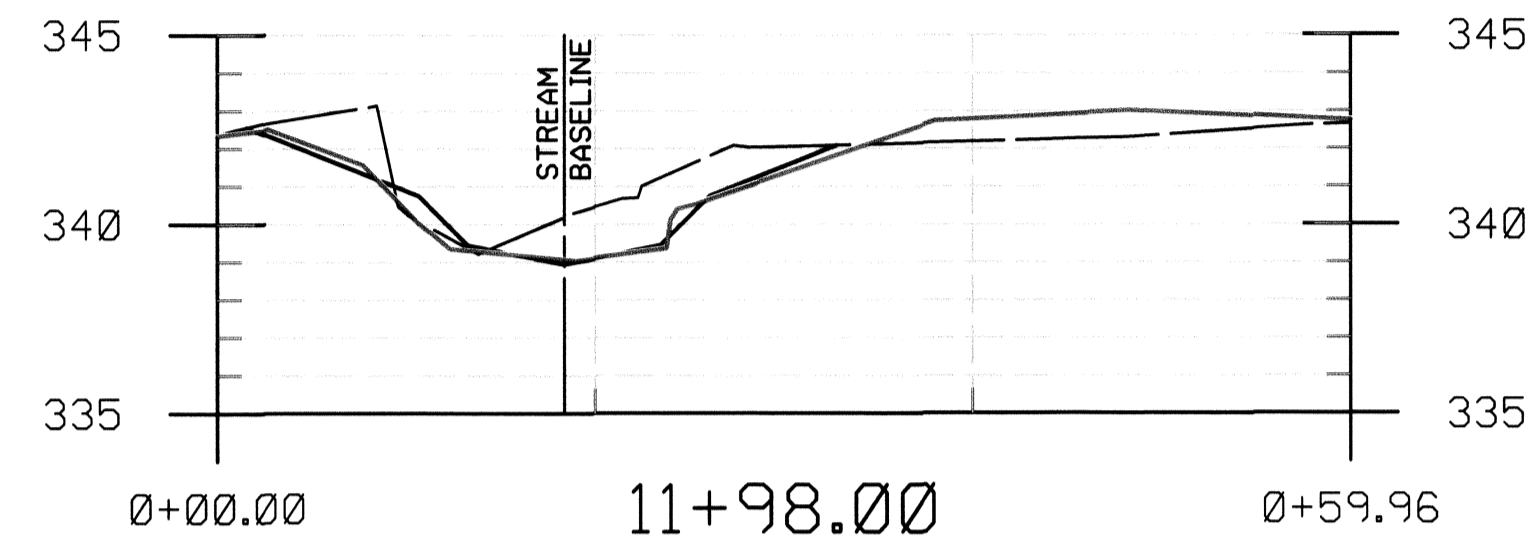
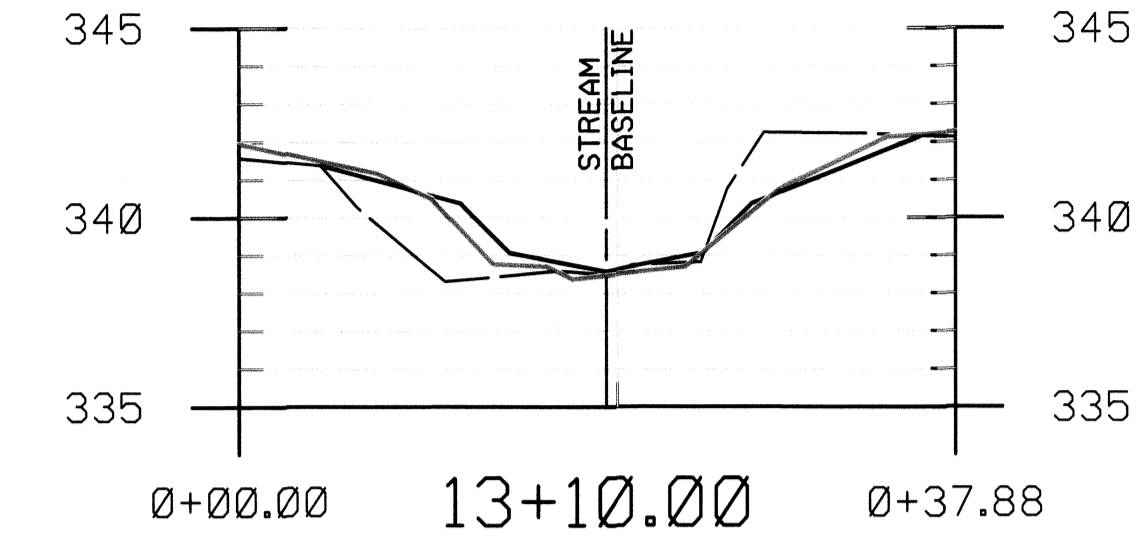
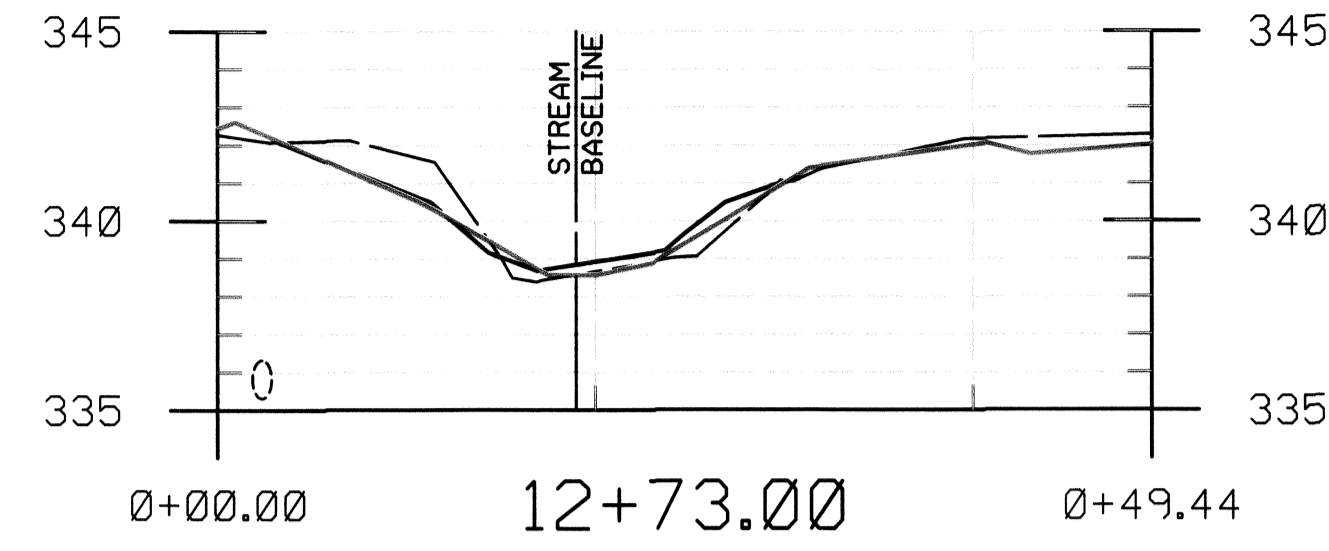
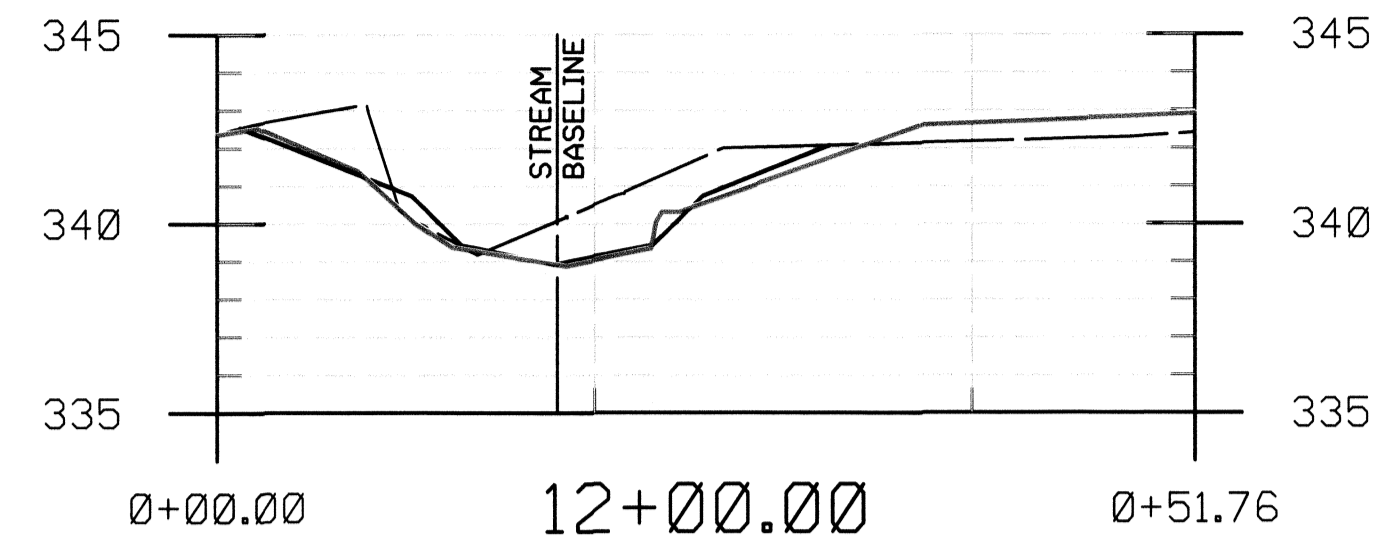
EXISTING GROUND _____

PROPOSED GRADE _____

AS BUILT GRADE _____

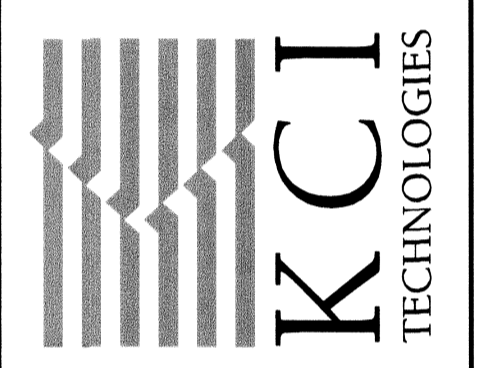
PROFESSIONAL CERTIFICATION. I HEREBY
 CERTIFY THAT THESE DOCUMENTS WERE
 PREPARED OR APPROVED BY ME, AND THAT
 I AM A DULY LICENSED PROFESSIONAL
 ENGINEER UNDER THE LAWS OF THE STATE
 OF MARYLAND, LICENSE NO. 31201,
 EXPIRATION DATE: JANUARY 24, 2009

PLOT: 09:31 AM on Wednesday, April 25, 2012
 FILE: M:\2008\01081795.43\Drawings\cso\mead_rst_csb1_rv2.dgn



NO.	REVISIONS DESCRIPTION	DATE

10 NORTH PARK DRIVE
 HUNT VALLEY, MD 21030
 PHONE: (410) 316-7800
 FAX: (410) 316-7817
 WWW.KCI.COM



**MEADOWBROOK PARK
 STREAM RESTORATION PROJECT**

CAPITAL PROJECT D-1158
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
 STORMWATER MANAGEMENT DIVISION
 675 COLUMBIA GATEWAY DRIVE
 COLUMBIA, MARYLAND 21046

**AS-BUILT
 CROSS
 SECTIONS**

SCALE:	HOR. 1" = 10'
	VERT. 1" = 5'
DATE:	APRIL 2012
KCI JOB NO.:	01-081795.43
CAPITAL PROJECT NO.:	D1158
PERMIT ISSUE:	
CONSTRUCTION ISSUE:	

APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION _____ DATE _____

CHIEF, DIVISION OF LAND DEVELOPMENT _____ DATE _____

DIRECTOR _____ DATE _____

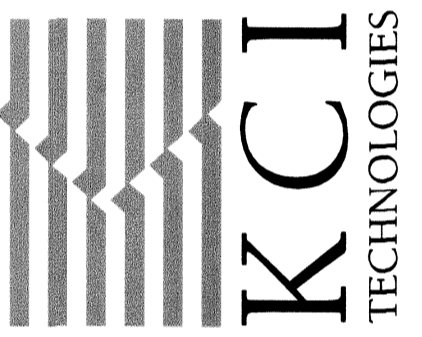
LEGEND

EXISTING GROUND	-----
PROPOSED GRADE	_____
AS BUILT GRADE	_____

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 31281, EXPIRATION DATE: JANUARY 24, 2009

PLOTTED: 09:32 AM on Wednesday, April 25, 2012
 BY: Courtney King, Division: PDSO, Material: Erip
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10 NORTH PARK DRIVE
HUNT VALLEY, MD 21030
PHONE: (410) 316-7800
FAX: (410) 316-7817
WWW.KCI.COM



MEADOWBROOK PARK
STREAM RESTORATION PROJECT

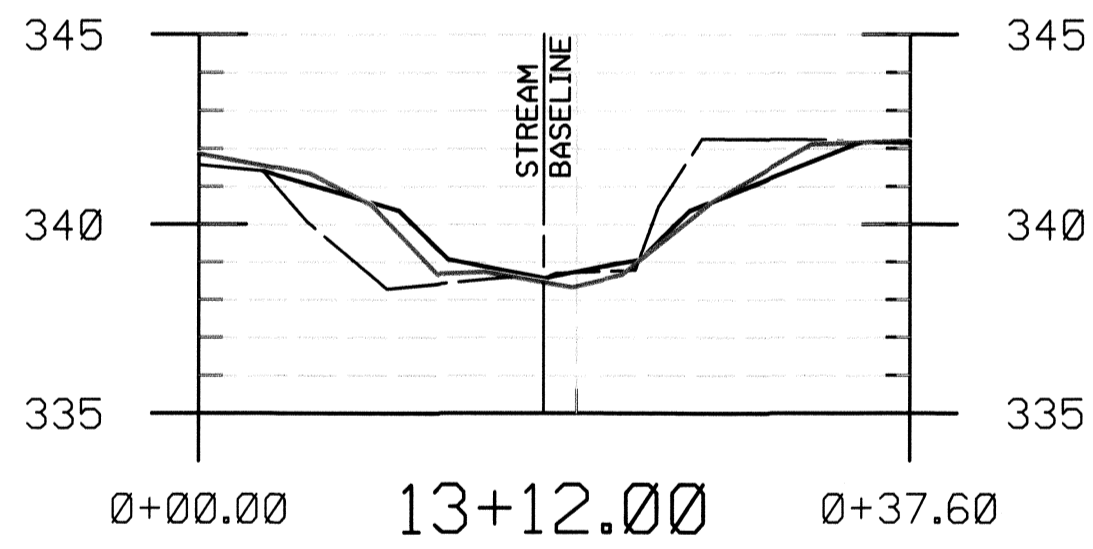
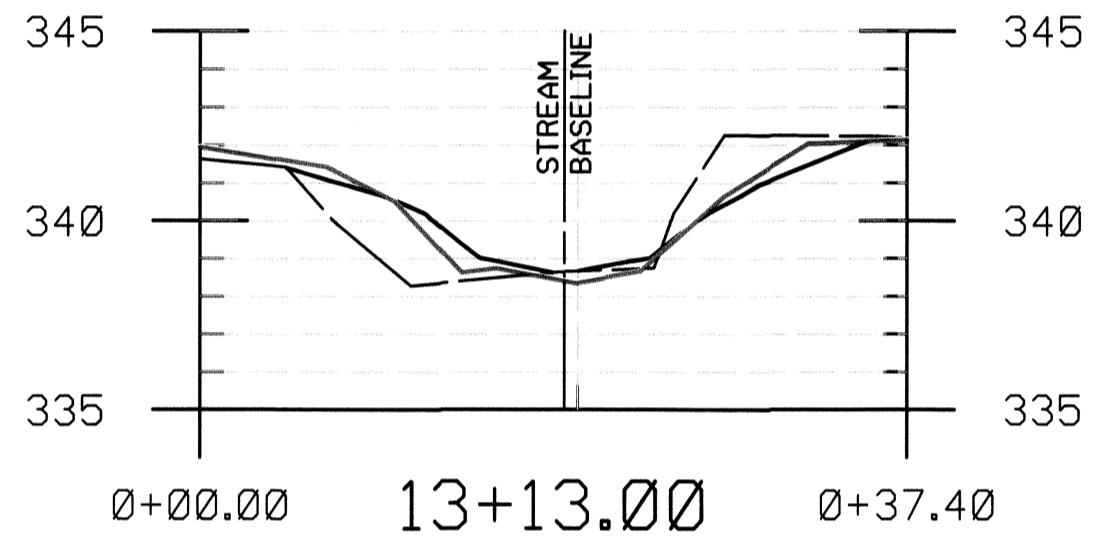
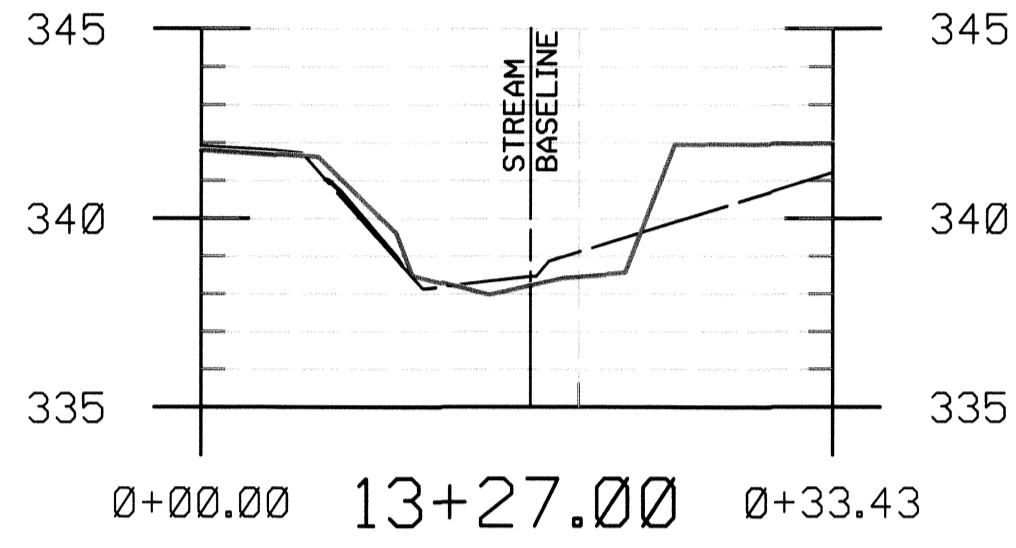
CAPITAL PROJECT D-158
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS
STORMWATER MANAGEMENT DIVISION
6751 COLUMBIA GATEWAY DRIVE
COLUMBIA, MARYLAND 21046

AS-BUILT
CROSS
SECTIONS

SCALE: HOR. 1" = 10'
VERT. 1" = 5'
DATE: APRIL 2012
KCIJOB NO.: 01-081795.43
CAPITAL PROJECT NO.: D1158
PERMIT ISSUE:
CONSTRUCTION ISSUE:

NO.	REVISIONS DESCRIPTION	DATE

KCI FILE: M\ 2008 \ 01081795.43 \



APPROVED: HOWARD COUNTY DEPT. OF PLANNING AND ZONING

CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE _____

CHIEF, DIVISION OF LAND DEVELOPMENT DATE _____

DIRECTOR DATE _____

LEGEND

- EXISTING GROUND
- PROPOSED GRADE
- AS BUILT GRADE

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