Raccoon Island Breakwater Demonstration Project

(PTE - 15 VII, TE - 29)

Built Under The Coastal Wetlands Planning, Protection And Restoration Act Of Public Law 101-646

By

Louisiana Department Of Natural Resources

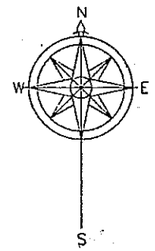
With The Assistance Of

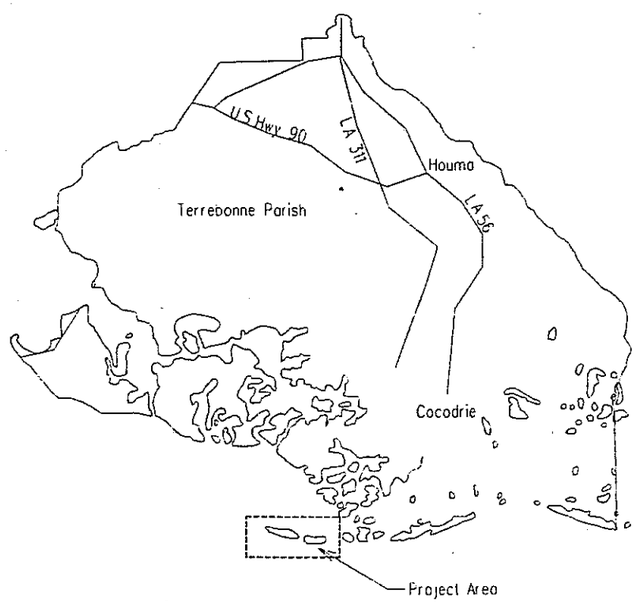
Natural Resources Conservation Service

Of The

United States Department Of Agriculture

1997





0 5 10 15
Approximate Scale In Miles

LEGEND

US 90	US Highway
LA 24	Louisiana State Highway
[dashed box]	Project Area

INDEX TO DRAWINGS

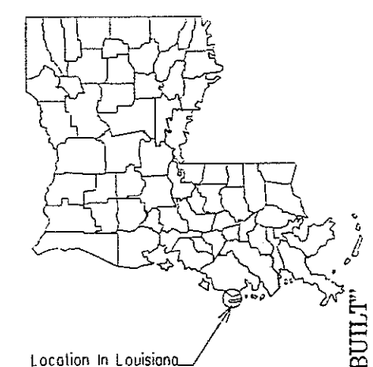
Sheet No.	Description
1	Cover Sheet
2	Plan Map
3	Breakwater Details

"AS-BUILT PLANS"

SUBMITTED BY: [signature] GOVERNMENT REPRESENTATIVE — 10/1/97 DATE

APPROVED BY: [signature] ASSISTANT STATE CONSERVATION ENGINEER — 11/3/97 DATE

[signature] III STATE CONSERVATION ENGINEER — 11-4-97 DATE



"AS-BUILT"

"AS-BUILT"

		Date			Date
Designed	J. Moore	10/96	Approved by	[signature] State Conservation Engineer Alexandria, Louisiana	12-4-96
Drawn	P. Cole	10/96	Title		
Traced					
Checked	J. MOORE	11/96	Title		

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

COVER SHEET - RACCOON ISLAND
BREAKWATERS DEMONSTRATION PROJECT
ISLES DERNIERES, TERREBONNE PARISH, LOUISIANA

REVISIONS			
DATE	APPR.	TITLE	

CAD FILE NO. COVRSHTA.DGN

DRAWING NO. LA 260

Sheet No. 1 of

SITE POSITIONS (AS-BUILT)								
SITE NO	0	1	2	3	4	5	6	7
ANGLE	N47E	N47E	N80E	N89E	S76E	S74E	S74E	S74E
EAST END	X=2133337.84 Y=138921.84	X=2,133,[illegible] Y=138,[illegible]	X=2,133,[illegible] Y=138,772.355	X=2,133,[illegible] Y=138,671.659	X=2,133,[illegible] Y=138,[illegible]	X=2,131,[illegible] Y=138,647.[illegible]	X=2,130,[illegible] Y=139,010.881	X=2,130,[illegible] Y=139,[illegible]
WEST END	X=2,133,[illegible] Y=138,[illegible]	X=2,133,[illegible] Y=138,[illegible]	X=2,132,[illegible] Y=138,722.507	X=2,132,[illegible] Y=138,674.737	X=2,131,[illegible] Y=138,[illegible]	X=2,131,[illegible] Y=138,[illegible]	X=2,131,[illegible] Y=139,[illegible]	X=2,129,[illegible] Y=139,211.242

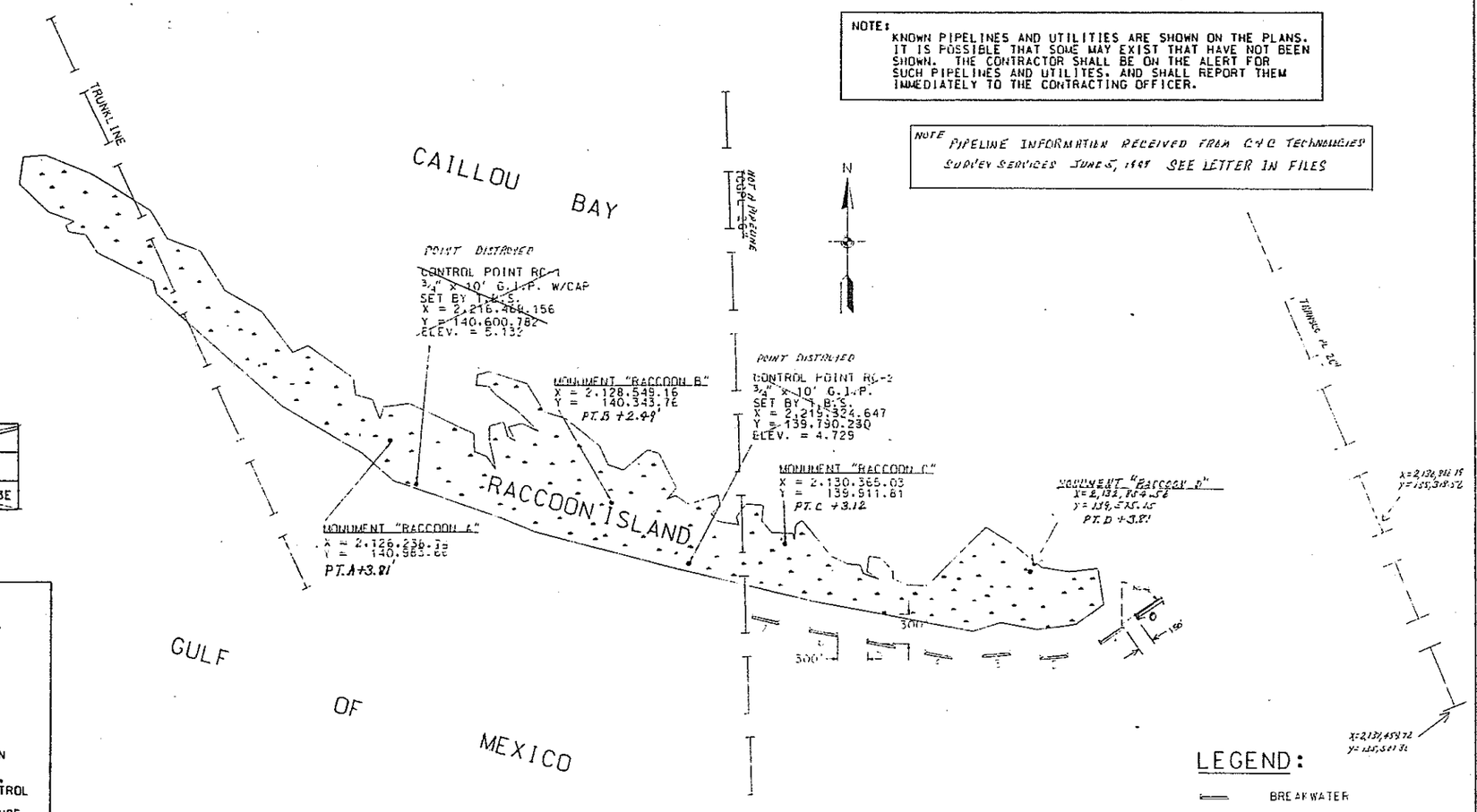
X= 2133337.84
Y= 138921.84

Bull Rock Gauge Point

~~SITE POSITIONS~~								
SITE NO.	1	2	3	4	5	6	7	
ANGLE	N55E	N85E	N85E	N100E	N100E	N100E	N103E	

NOTE:

1. ALL BREAKWATERS ARE LOCATED 300' FROM SHORELINE WITH A 300' GAP BETWEEN BREAKWATERS AS STAKED IN THE FIELD BY COTR
2. WATER DEPTHS VARY FROM ~~3'~~ 0.2' TO 8' DEPENDING ON LOCATION AND TIDAL SURGE.
3. CONTROL POINTS RC-1 AND RC-2 TAKEN FROM T.BAKER SMITH & SONS. INC. TOPOGRAPHIC SURVEY DATED FEBRUARY, 1993. HORIZONTAL AND VERTICAL CONTROL ESTABLISHED BY T.B.S. GPS CONTROL SURVEY HORIZONTAL POSITION REFERENCE NAD 83/92 DATUM. VERTICAL CONTROL REFERENCE NGVD 29.
4. MONUMENTS "RACOON A", "RACCOON B", "RACCOON C" TAKEN FROM MORRIS P. HEBERT, INC. DRAWING DATED 9/23/94 BARRIER ISLAND RESTORATION PROJECT RACCOON ISLAND RESTORATION



NOTICE:
48 HOURS BEFORE DIGGING
CALL 1-800-272-3020
TO LOCATE UTILITY LINES

NOTE:
KNOWN PIPELINES AND UTILITIES ARE SHOWN ON THE PLANS. IT IS POSSIBLE THAT SOME MAY EXIST THAT HAVE NOT BEEN SHOWN. THE CONTRACTOR SHALL BE ON THE ALERT FOR SUCH PIPELINES AND UTILITES, AND SHALL REPORT THEM IMMEDIATELY TO THE CONTRACTING OFFICER.

NOTE PIPELINE INFORMATION RECEIVED FROM C&C TECHNOLOGIES SURVEY SERVICES JUNE 5, 1995 SEE LETTER IN FILES

"AS-BUILT"

Date
Approved by State Conservation Engineer Alexandria, Louisiana
Title

Date 10/96
Designed J. MOORE
Drawn P. COLE
Traced
Checked J. MOORE

Date 10/96
Title

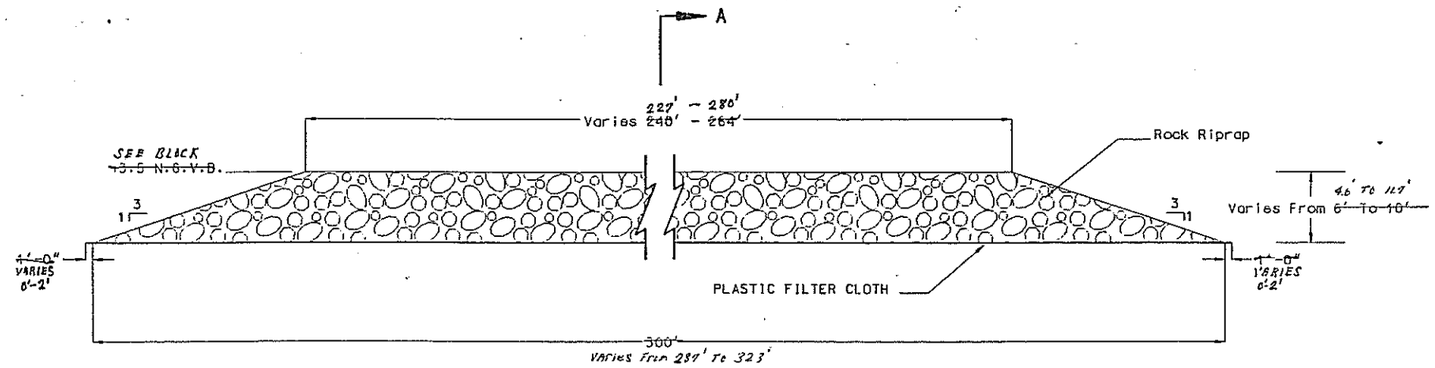
Date 11/96
Title

PLAN MAP - RACCOON ISLAND
BREAKWATERS DEMONSTRATION PROJECT
ISLES DERNIERES,
TERREBONE PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

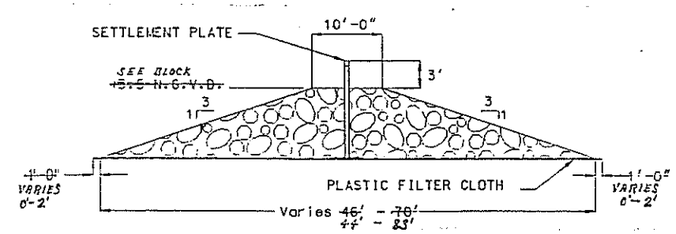
REVISION
DATE APPR. TITLE

CAD FILE NO.
LA260-09A
DRAWING NO.
LA260
SHEET NO 2 OF 3

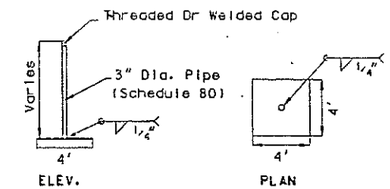


LONGITUDINAL SECTION

SETTLEMENT PLATE INFORMATION																								
SITE NO	0			1			2			3			4			5			6			7		
SETTLEMENT PLATE LOCATION	EAST	CENTER	WEST	EAST	CENTER	WEST	EAST	CENTER	WEST	EAST	CENTER	WEST	EAST	CENTER	WEST	EAST	CENTER	WEST	EAST	CENTER	WEST	EAST	CENTER	WEST
OVERALL LENGTH (FT)	14.1	13.9	11.4	10.9	11.1	11.1	9.4	9.6	8.5	9.6	9.7	8.8	8.0	8.3	9.2	9.4	9.8	9.5	9.3	10.1	10.2	11.5	11.8	11.4
ELEVATION (FT)	6.60	6.22	8.54	6.61	6.46	6.77	6.31	6.27	6.35	7.69	7.29	7.76	7.42	7.18	7.55	8.63	7.92	7.22	7.12	7.26	6.92	7.87	7.82	7.07



SECTION A - A



Settlement Plate 5/16", Galvanize After Welding

SETTLEMENT PLATE DETAILS

(Not To Scale)

BREAKWATER DIMENSIONS								
SITE NO	0	1	2	3	4	5	6	7
BASE LENGTH (FT)	287	314	323	309	316	313	297	305
BASE WIDTH EAST	83	81	63	44	49	51	56	64
BASE WIDTH WEST	79	63	47	67	42	53	59	65
ELEV. (FT)	+42	+41	+49	+46	+46	+41	+46	+53
TOP LENGTH	227	255	286	275	250	260	255	255
GULF BOTTOM ELEV.	EAST-7.5	EAST-4.9	EAST-3.4	EAST-1.9	EAST-6.6	EAST-1.9	EAST-2.2	EAST-3.6
	WEST-5.9	WEST-4.4	WEST-1.9	WEST-1.0	WEST-1.6	WEST-2.3	WEST-3.3	WEST-4.3

TYPICAL BREAKWATER SECTION

RIPRAP GRADATION		
Material	% Lighter By Weight	Weight of Each Rock (Lbs)
Riprap	100	5000 - 2000
	50	2200 - 1000
	15 Maximum	1100 - 300

"AS-BUILT"

STATE OF LOUISIANA
E. J. GIERING III
REG. No. 8033
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

(NOT TO SCALE)

"AS-BUILT"

REVISIONS		
DATE	APPR.	TITLE

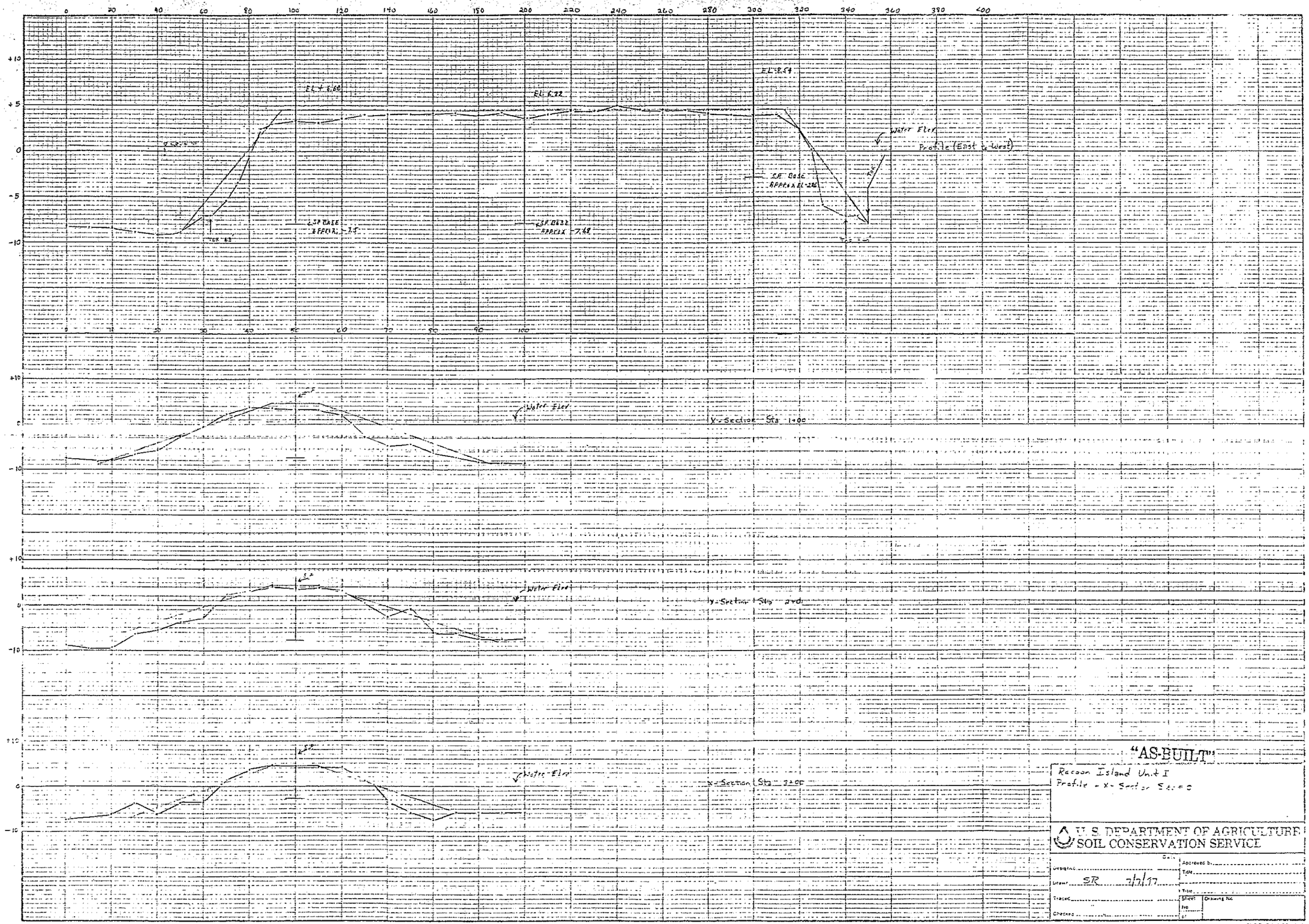
BREAKWATER DETAIL - RACCOON ISLAND
BREAKWATERS DEMONSTRATION PROJECT
ISLES DERNIERES, TERREBONNE
PARISH, LOUISIANA

U.S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

		Date
Designed	J. Moore	10/96
Drawn	P. Cole	10/96
Traced		
Checked	J. MOORE	11/96

Approved by State Conservation Engineer Alexandria, Louisiana
Title
Title

CAD FILE NO. LA 260-02
DRAWING NO. LA 260
Sheet No. 3 of 3

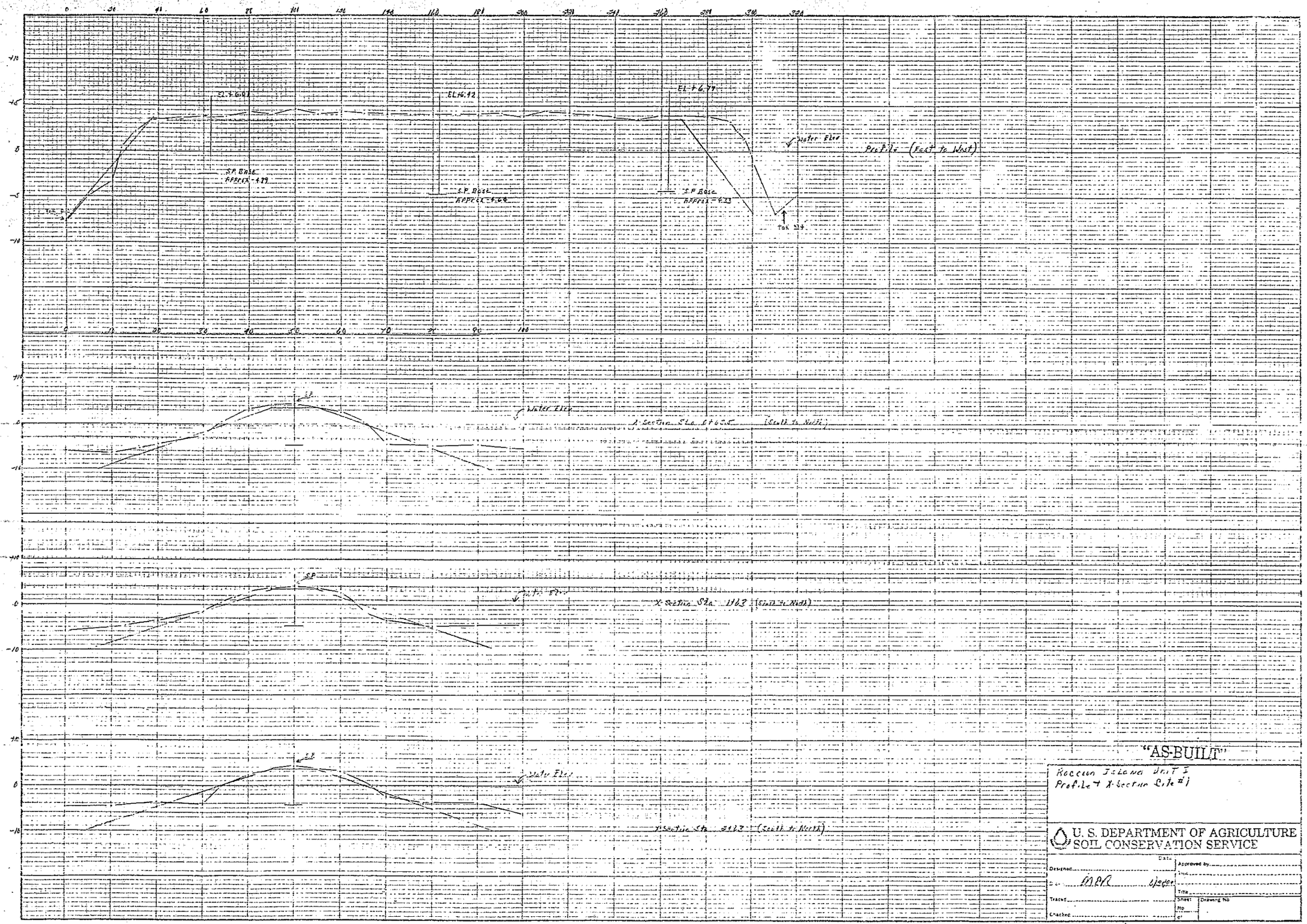


"AS-BUILT"

Racoon Island Unit I
Profile - X-Section Sta = 0

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed
Drawn SR 7/7/77
Traced
Checked
Approved by
Title
Title
Sheet No
Drawing No



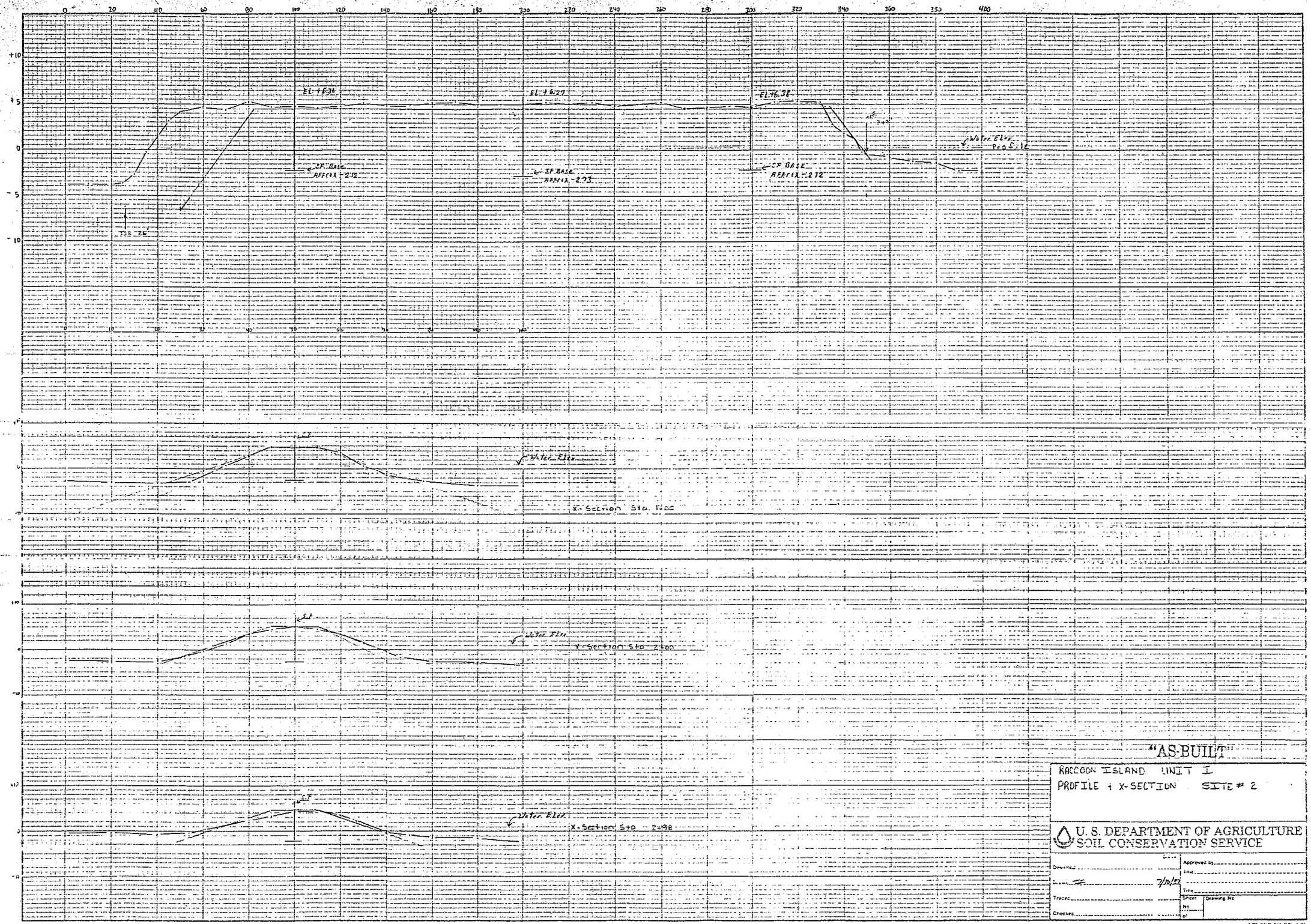
"AS-BUILT"

Raccoon Island Unit I
Profile + X-Section Site #1

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed	Date	Approved by	
Date MAR	1/3/80	Title	
Traced		Title	
Checked		Sheet No. of	Drawing No.

SCS-ENG 215-REV 6-75



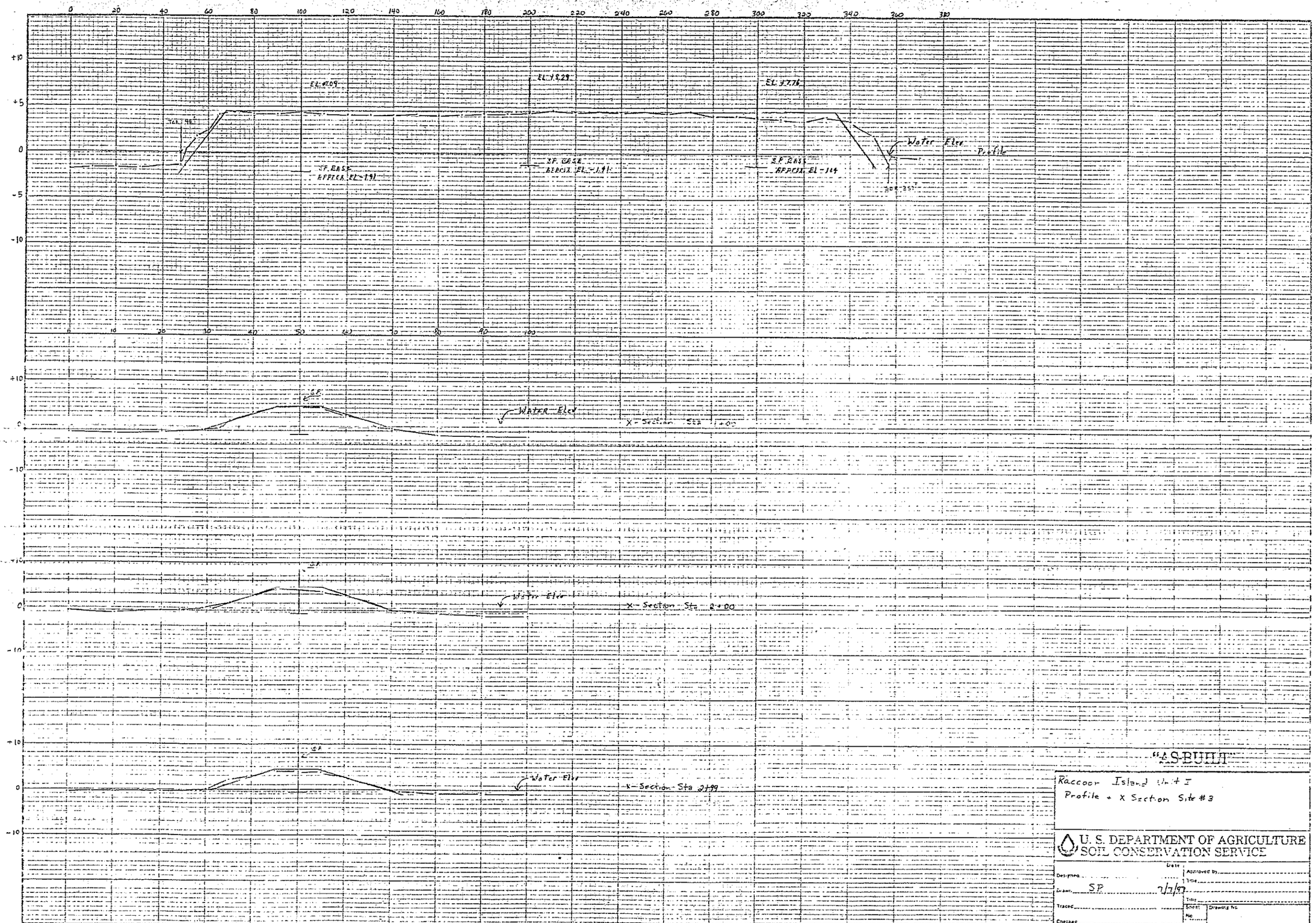
"AS-BUILT"

RACCOON ISLAND UNIT I
PROFILE + X-SECTION SITE # 2

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed
Drawn
Traced
Checked
Approved by
Title
Sheet No.
Drawing No.

SCS-ENG 216 REV. 6-74



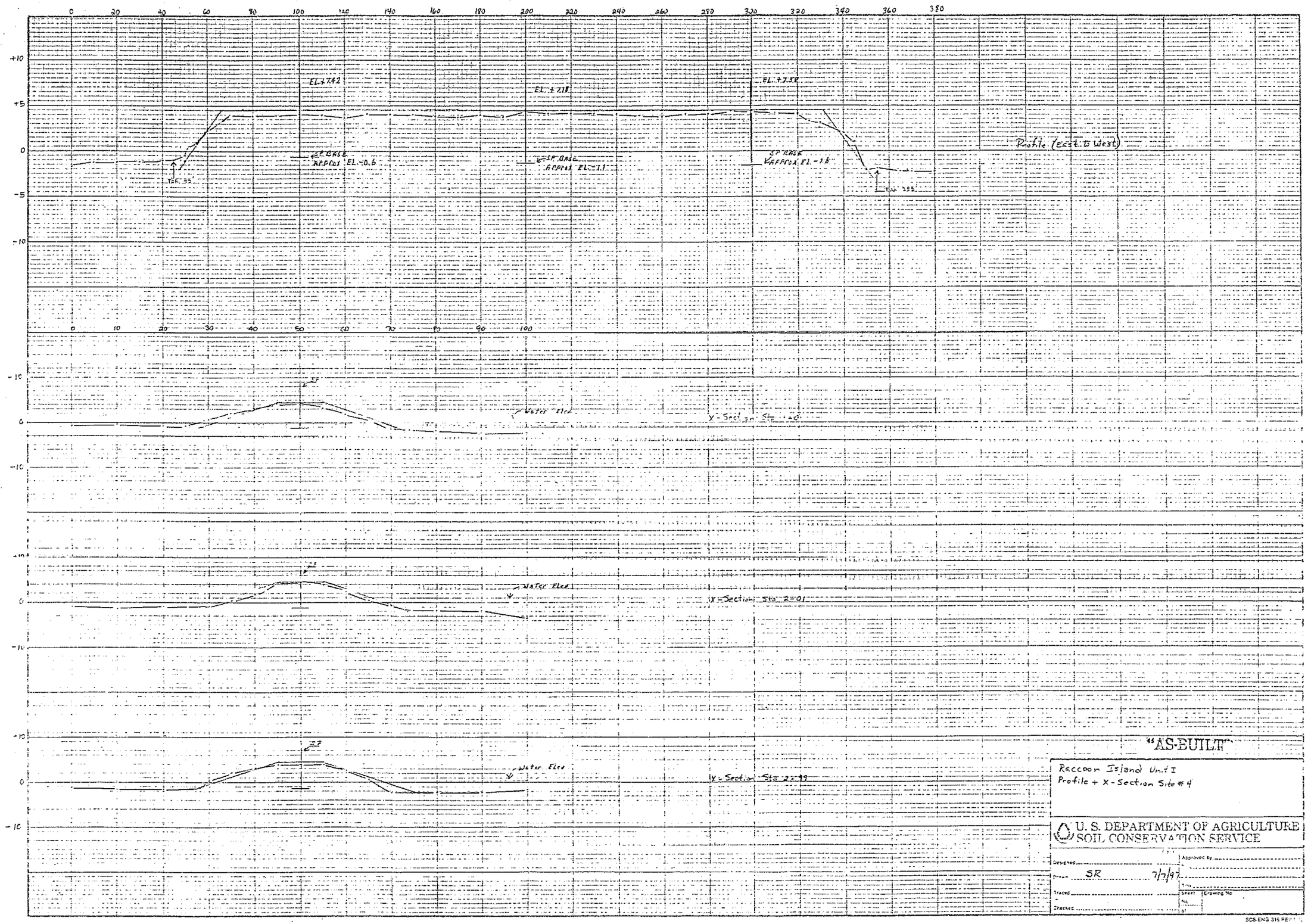
"AS-BUILT"

Raccoon Island Unit I
Profile + X Section Site #3

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed
Drawn SP 7/7/87
Traced
Checked
Date
Approved by
Title
Sheet No. of
Drawing No.

SCS-ENG 315 REV. 8-71



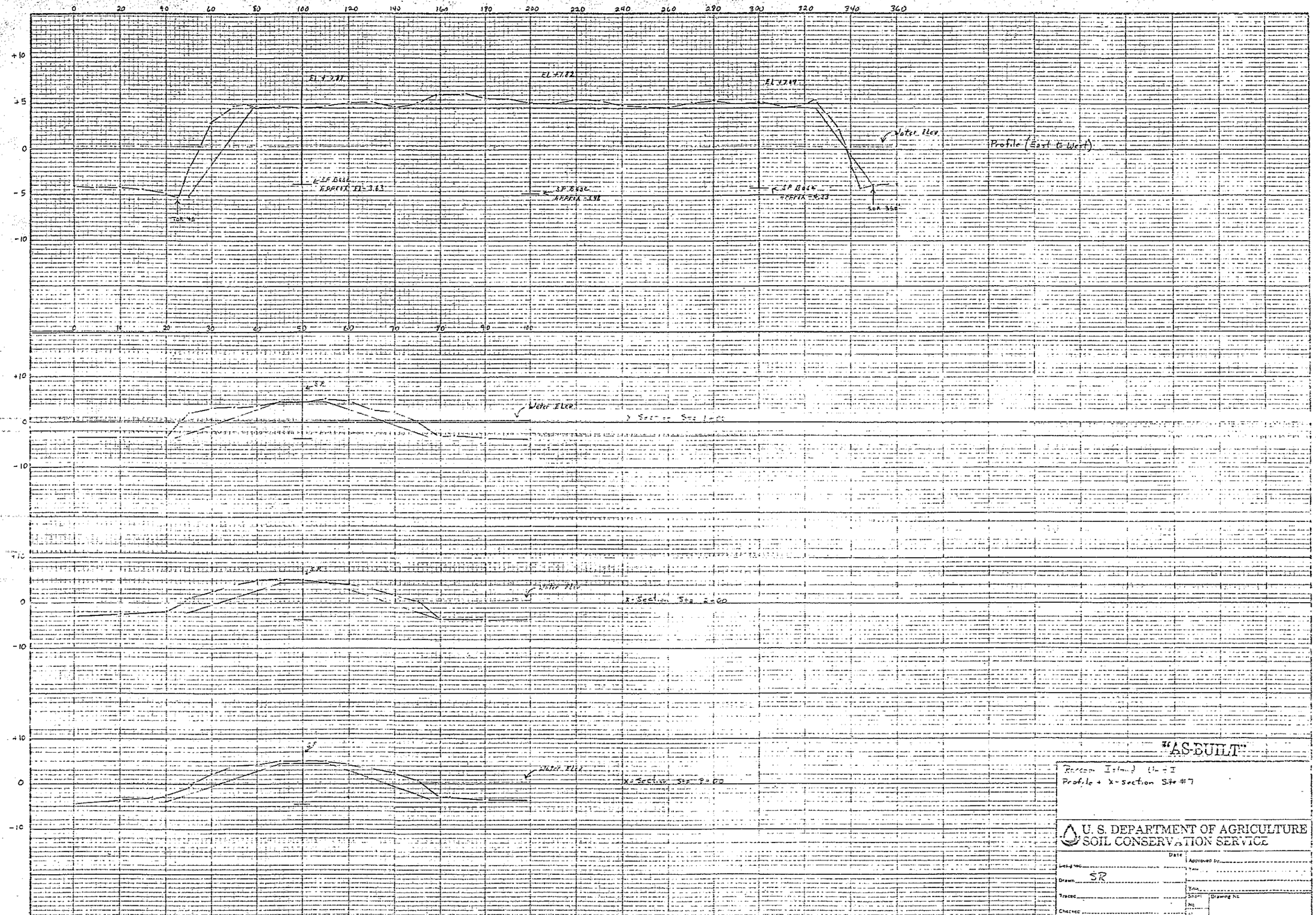
"AS-BUILT"

Raccoon Island Unit I
Profile + X-Section Site #4

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed
Drawn SR 7/7/97
Traced
Checked
Approved by
Title
Sheet No. of
Drawing No.

SCS-ENG 315 REV



"AS-BUILT"

Rarcom Island Unit I
Profile + X-section Site #7

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed	Date
Drawn SR	Approved by
Traced	Title
Checked	Sheet No. / Drawing No.

SCS-ENG 215 REV 8-72