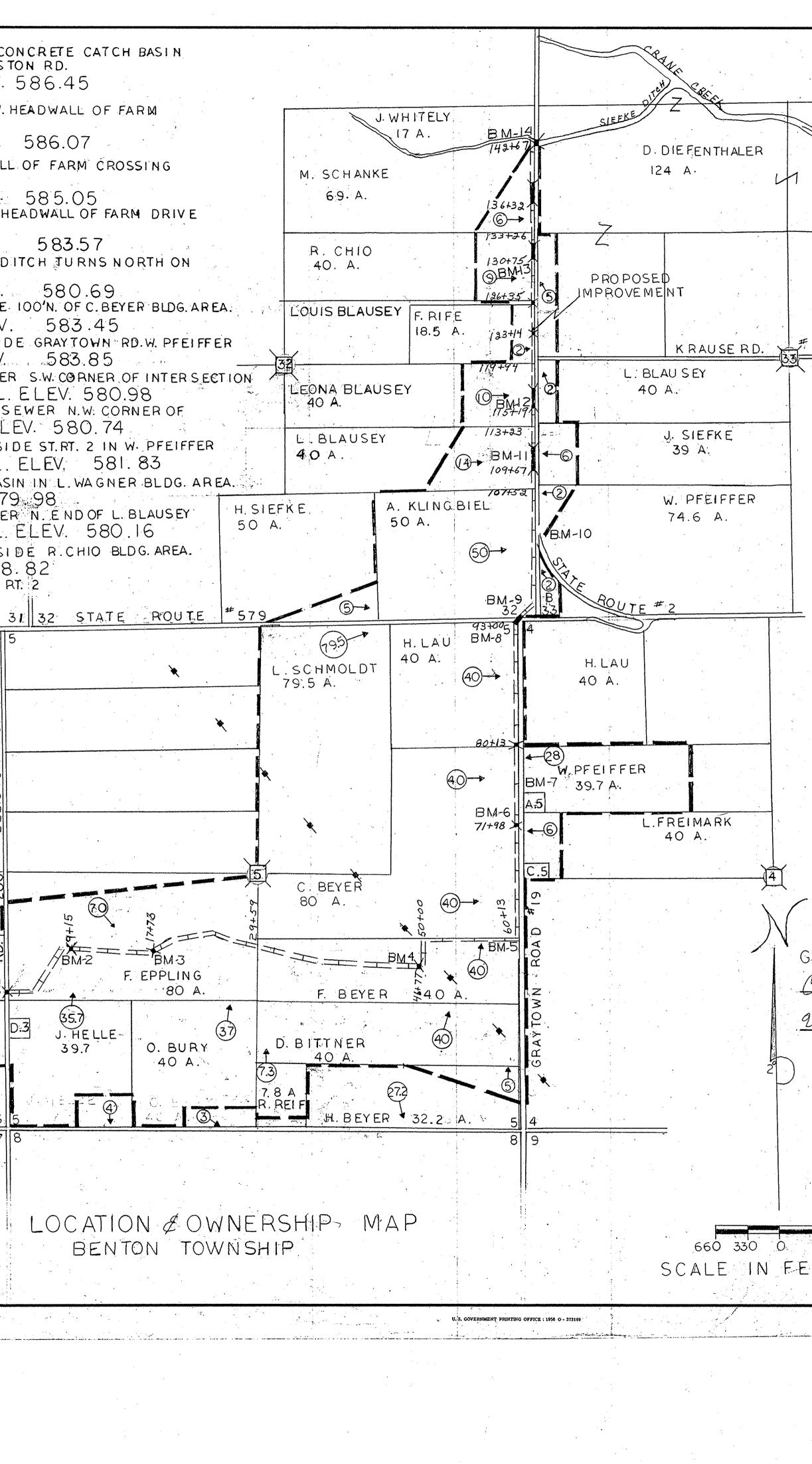
-	BM" - TOP OF CHISELED X ON S.E CORNER OF
۰.	WALL 80' N. OF DITCH W. SIDE OF ELL
	PM#2 X OULCELED IN TOD CONTED OF
4	BM # 2- X CHISELED IN TOP # CENTER OF CROSSING ON FEPPLING FARM.
	M.S.L. ELEN
	BM # 3- X CHISELED IN CENTER OF W. HEADW. ON F. EPPLING FARM.
•	BM #4- TOP OF R"IN BEYER IN CENTER OF W
	ON E BEYER FARM. M.S.L. ELEV
•	BM [#] 5 - TOP OF 10" CONCRETE TILE WHERE
	W. SIDE OF GRAYTOWN RD. M.S.L. ELEY
	BM# 6 - TOP SPIKE INW. SIDE OF TELEPHONE POL M.S.L. ELE
	BM 7 - TOP OF SPIKE IN N.SIDE OF POLE ES
•. • • • •	FARM. M.S.L. ELE BM# 8 - TOP OF S. END OF 5'X7' ELIPTICAL SEV
	GRAYTOWN RD. ST. RT. 579. M.S. BM #9- TOPOFN. ENDOF 5'X7' ELIPTICAL
•	INTERSECTION. M.S.L.E
	BM #10- TOP OF CONCRETE MARKER POST E. BLDG. AREA. M.S.
	BM #11 - ON CENTER OFS. SIDE OF CATCH B
	M.S.L.ELEV. 5 BM#12- TOPOFN.END OF OF 48" R/C SEV BLDG.AREA. M.S.
	BLDG.AREA. M.S. BM #13 - X. ON N. ENDOF 48" R/C SEWER S.
	M.S.L. ELEV. 57
	BM #14 - TOP OFW. END OF 7' C.M.P. UNDER ST M.S.L. ELEV. 578.45
н. К. 1	
	NOTICE TO LANDOWNERS OR CONTRACTORS
v	NOTICE TO LANDOWNERS OR CONTRACTORS
	THE PIPELINE OR OTHER TRANSMISSION LINE MUST BE NOTIFIED OF THE PENDING CONSTRUCTION, GIVING THE DATE AND TIME SUCH CONSTRUCTION IS SCHEDULED TO BEGIN. THE PROPERTY OWNER OR THE CONTRACTOR IS RESPONSIBLE FOR GIVING THIS NOTICE
	TO BEGIN. THE PROPERTY OWNER OR THE CONTRACTOR IS RESPONSIBLE FOR GIVING THIS NOTICE.
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	PROPOSED IMPROVEMENT	
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		14,990
Т	HIS DITCH PLAN HAS BEEN APP	ROVED BY
	Chrift Papeun TTAWA COUNTY ENGINEER	<u>10/20/67</u> DATE
	LOCATION -	E. 1/2 SEC 3205 C 33 BENTON
	EZONDISMES Secil, Benton SURVEYED - DOYLE	E) AND WW SEC4, 5 EC 5 and 5 E KNP Twp (TIMBBIAE)
SROUP CO-CHAIRMAN		D CAMPBELL
Clarence G. Beyer Willru H. D.feiffer	REFERENCE - FIELD NOTE	OPFER 5\$6-67 S ON FILE IN
Within M. D. fuffer	OT TAWA SOIL CON SERVATIO	& WAIER
	JOB CLASS VI SET GF	ROUP #23
	DITCH IMPROVEN EPPLING DRAINAG	
	OTTAWA COUNTY	
	U.S. DEPARTMENT OF A	
	Designed Date Approved by	BERVICE hard and
660	DONALD OPFER 9/67 Title CRO Drawn DONALD OPFER 4/3/67 Avide	pl Engineers
EET.	Traced Title	<u>o dated 10/13/67</u> awing No.
	R. C. C. C. C. F. Mo. 1 of 8 0	<u>H-I-83-67-16</u>
	<u> </u>	orm SCS-313 (November 1955)
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		II. III. V. VI. VII. VIII.	C. A D. T E. E II. CLEAN All t tions right III. BERM Unles for f IV. SFOIL Excav spoil above V. TILE Lando see y VI. SURFA Where pipe VII. DITCH The d of 50 VIII. CULVE Exist plan.	C. ALIGN D. TOTAL E. EXCESS II. CLEARING: All trees tions. S right-ef- III. BERM WIDT Unless of for four IV. SPOIL BAN Excavated spoil aft above ave V. TILE OUTL Landowner see your V. SURFACE W Wherever pipe drop VI. SURFACE W Wherever pipe drop VII. DITCH BAN The ditch of 500 lb VIII. CULVERTS: Existing plan. Stat:	C. ALIGNMENT D. TOTAL EXC. E. EXCESS YA II. CLEARING: All trees er tions. Stump right-of-way. III. BERM WIDTH: Unless otherw for four te s IV. SPOIL BANKS: Excavated mate spoil after sy above average V. TILE OUTLETS: Landowners pr see your loca VI. SURFACE WATER Wherever a lat pipe drops, o VII. DITCH BANK SE The ditch ban of 500 lbs. on VII. CULVERTS: Existing culve plan. Station Statio	 B. BANK SLOPES; C. ALIGNMENT: D. TOTAL EXCAVAT B. EXCESS YARDAGI II. 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HANK SLOPES: The ditch banks are to be constructed to at 1 on read side. G. ALLONMENT: The conterline of the preposed improvement shal on the plan. D. TOTAL EXCAVATION: The total excavation consists of 14,990 (E. EKCESS YARDAGE: No extra compensation will be paid for such should view the proposed work to his own satisfy and the preposed of the preposed work to his own satisfy and the preposed of the preposed work to his own satisfy and the preposed of out as low as or right-of-may. III. CLEARING: All trees or brush which would interfore with the excavation operations. Stumps on the berm should be removed or out as low as or right-of-may. III. BERM WIDTH: Unless otherwide noted the berms will have the following minimum for four to six foot depth; and ten (10) feat wide for ditches of the spoil after spreading should be it least 3:1 on channel side and above average ground level. Openings shall be provided for surf the OUTLETS: Landowners protect their tile outlets with a section of continue see your local Soil Conservation Technician. VI. SUEFACE WATER OUTLETS: Wherever a lateral or a surface ditch enters the main ditch at a pipe drops, other suitable structures or grassed waterway. For UTLE DITCH HANK SEEDINGS: The ditch banks will be seeded, immediately after each day's won of 500 lbs. of 10-10-10 fertilizer or equivalent will be applied VIII. CULVERTS: Station 17+73 Station 17+98 Station 128+14 Station 160+67 Station 128+14 Station 160+67 Station 128+15 Station 128+16 Station 128+16	 B. HANK SLOPES: The ditch banks are to be constructed to at least	 B. HANK SLOPES: The ditch banks are to be constructed to at least 12 ft	 B. BANK SLOFEST The ditch banks are to be constructed to at least 12 foot ho on read side. C. ALIGNMENT: The contorline of the proposed improvement shall be approximat on the plan. D. 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GUIVENTS: The ditch bank SEEDWORDS: UNLY STALL SURFACE WATER OUTLETS: The ditch banks will be seeded, immediately after each day's work, to tall feast of 10-10-10 fortilizer or equivalent will be applied. 5 acres of WII. GUIVENTS: Station 10-10-10 fortilizer or equivalent will be applied. 5 acres of dwill dot 12/0-13. VI. DRIVETS: The distributes and bridges will be cleaned and the inverts (flow line) lower plan. Station 120+071 Station 120+071<	 B. BANK SLOFES: The ditch banks are to be constructed to at least 12 foot horizon on read ids. C. ALIGNMENT: The conterline of the proposed improvement shall be approximately the on the plane. D. TOTAL EXCAVATION: The total excevation consists of 14,990 cubic yards of earth excession of the plane. D. TOTAL EXCAVATION: The total excevation will be paid for such excevation in excess should view the proposed work to his own satisfaction. II. CLARING: All total excevation on the plane. II. CLARING: All total excevation of the excevation operation must be clear tiens. Stumps en the berm should he removed or out as low as outting tools permit. right-ef-may. III. BENM WIDTH: Unless otherwide noted the berms will have the following minimum width: four (4) fer for four te six foot depth; and ten (10) feet wide for ditches ever six feet in depth spectral groups and level. Opening shall be provided for surface water to enter the above average ground level. Opening shall be provided for surface water to enter the set our local Soil Conservation Technician. VI. SURFACE WATER OUTLERS: Where all to a surface ditch enters the main ditch at a higher elevation proposed their subtales or gressed waterway. For assistance on outlet for 500 the of 10-10-10 fortilizer or equivalent will be applied. 5 acres of ditch to plan. VII. CULERES: Extend 15:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4:4	 B. BANK SLOPES: The ditch banks are to be constructed to at least 12 foot horizontal to or read side. C. ALIGNMENT: The contorline of the proposed improvement shall be approximately the cs on the plan. D. TOTAL EXCAVATION: The total excervation consists of 14,990 cubic yards of earth over scatter at the proposed work to his own satisfaction. II. CLEARING: All trees or bruch which would interfere with the excervation operation must be cleared for times. Studnes an the berm should be removed or out as low as cutting tools permit. Clear right-sf-say. III. DEEM WIDTH: Unless otherwide noted the berms will have the following minimum width: four (4) feet with for four te six foot depths and tem (10) feet wide for ditches over six feet in depth. IV. SPOIL MANKS: Stormstrip is a state of the output with a section of continuous rigid pipe and flaps are specific and spread along one or both sides of the ditch, a spoil after spreading should be at least 31 on channel side and at least 4:1 on the field above average ground level. Opening shall be provide for surface water to enter the di V. TILE OUTLETS: More outputs of a surface ditch enters the main ditch at a higher elevation protect pipe drops, other suits ble structures or grassed waterway. For assistance on outlets see VII. DITCH MAK SEEDINGS: The ditch banks will be added, immediately after each day's work, to tall feacue (Kantud of 500 lbs. of 10-10-10 fertilizer or equivalent will be inverts (flow line) lowered to corr pine. Station 12643 Station 126435 Station 126435 Station 126435 Station 126435 <li< td=""><td> B. BANK SLOPES: The ditch banks are to be constructed to at least 12 foot horizontal te 1 for one seed side. C. ALIGNMENT: The conterline of the preposed improvement shall be approximately the centerline of the plan. D. TOTAL EXGAVATION: The total excavation consists of 14,990 cubic yards of earth over 14,26 g. EXCESS TARAGES: No extra compensation will be paid for shout excavation in excess of yards should view the proposed work to his own estisfaction. II. 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CIFICATION

sta. 0400 and sta. 93400 and four (4) feet to sta. 136452 twelve (12) feet to $1\frac{1}{2}$ foot horizontal to 1 foot vertical on farm side and extend existing slopes approximately the centerline of the existing ditch unless etherwise indicated

yards of earth over 14,267 lineal feet of ditch. vation in excess of yardage herein estimated from cross section. The contractor on.

on must be cleared from the ditch right-of-way ahead of the construction opera-tools permit. Cleared debris should be disposed of by burning or removed from

th: four (4) feet wide for ditches up to four (4) feet depth; six (6) feet wide six feet in depth. sides of the ditch, as determined, except where used for levees. Slope of the

least 4:1 on the field side. The height of the spoil should not exceed one foot ater to enter the ditch.

gid pipe and flap-gates or grid to exclude rodents. For details of construction

er elevation protection from erosion should be provided by: Drop structures, tance on outlets see your Soil Conservation Technician.

o tall fescue (Kentudky 31 or Alta) at the rate of 25 lbs. per acre. A minimum acres of ditch bank seeding will be required.

ine) lowered to correspond to the proposed grade of ditch as indicated on the

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Construction of the second

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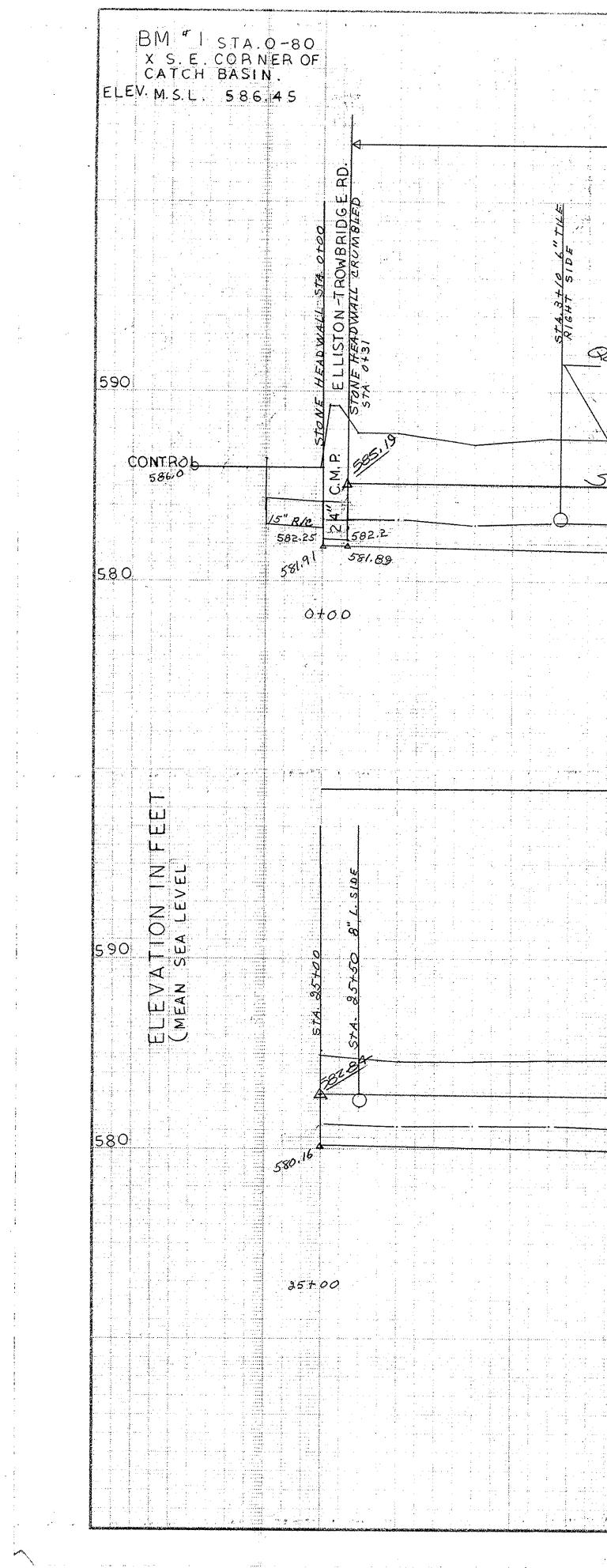
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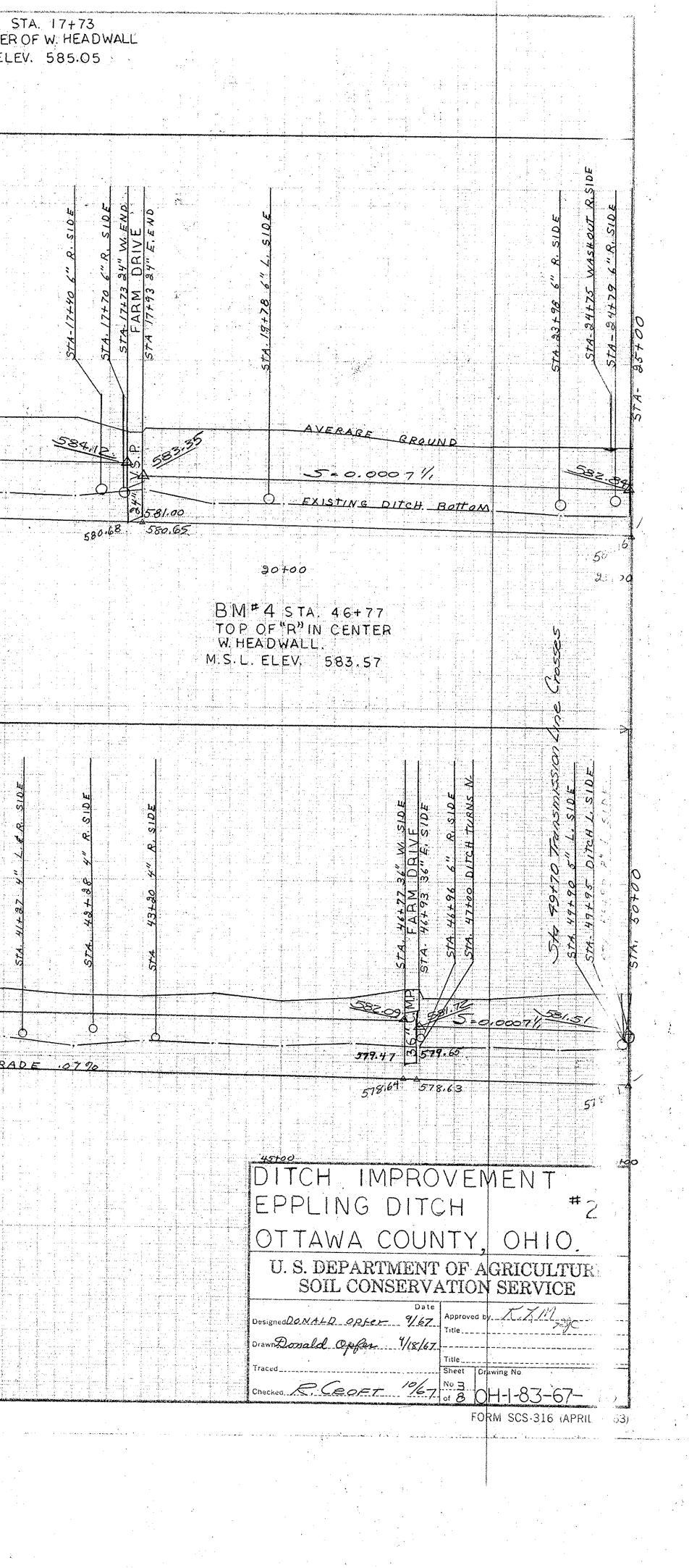
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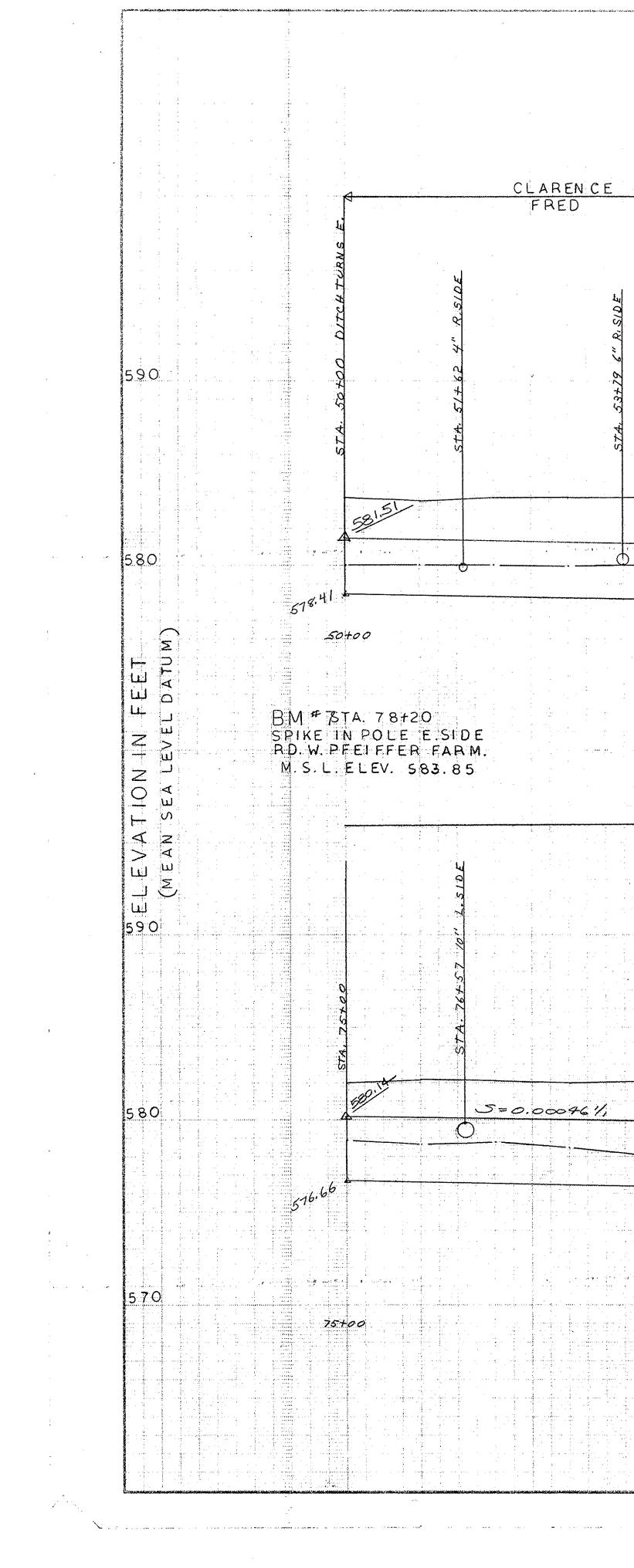
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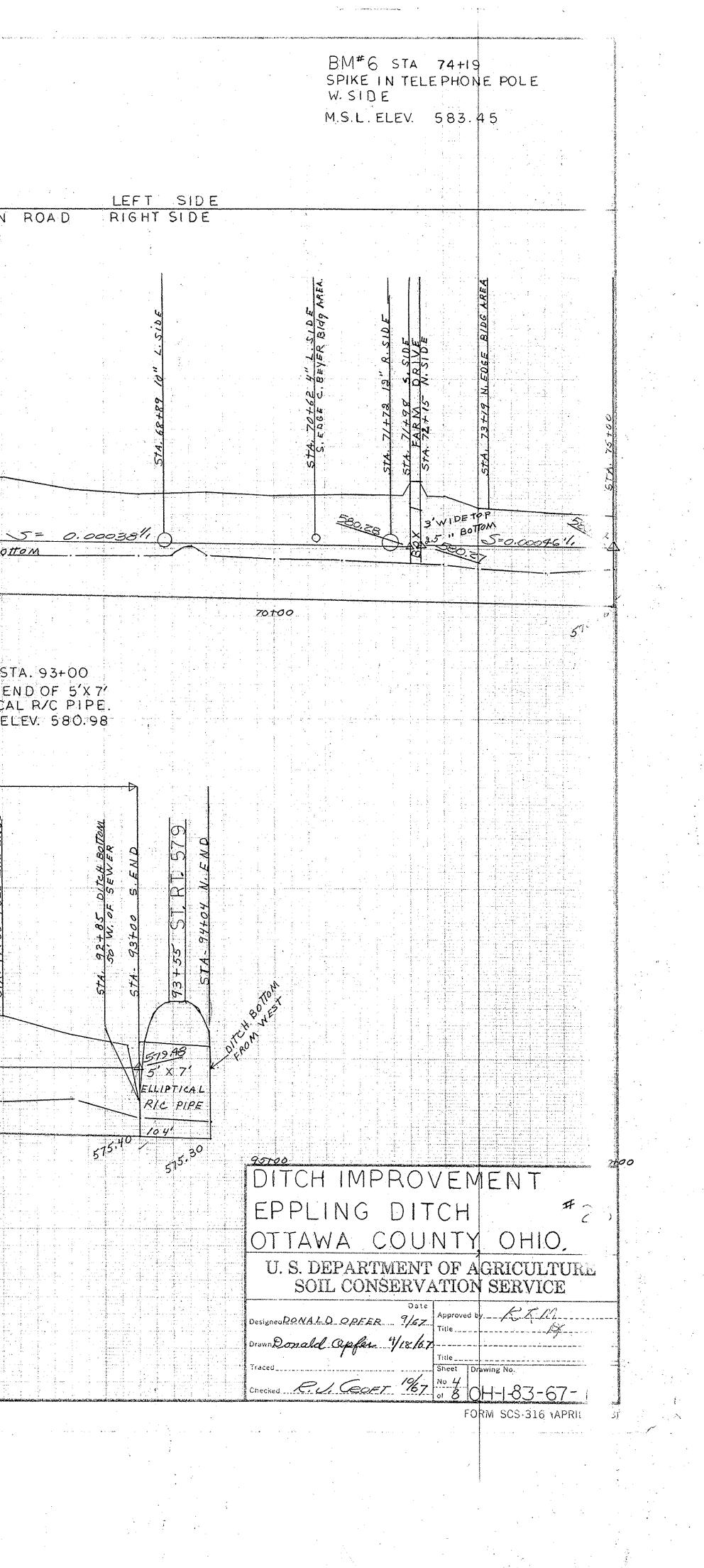
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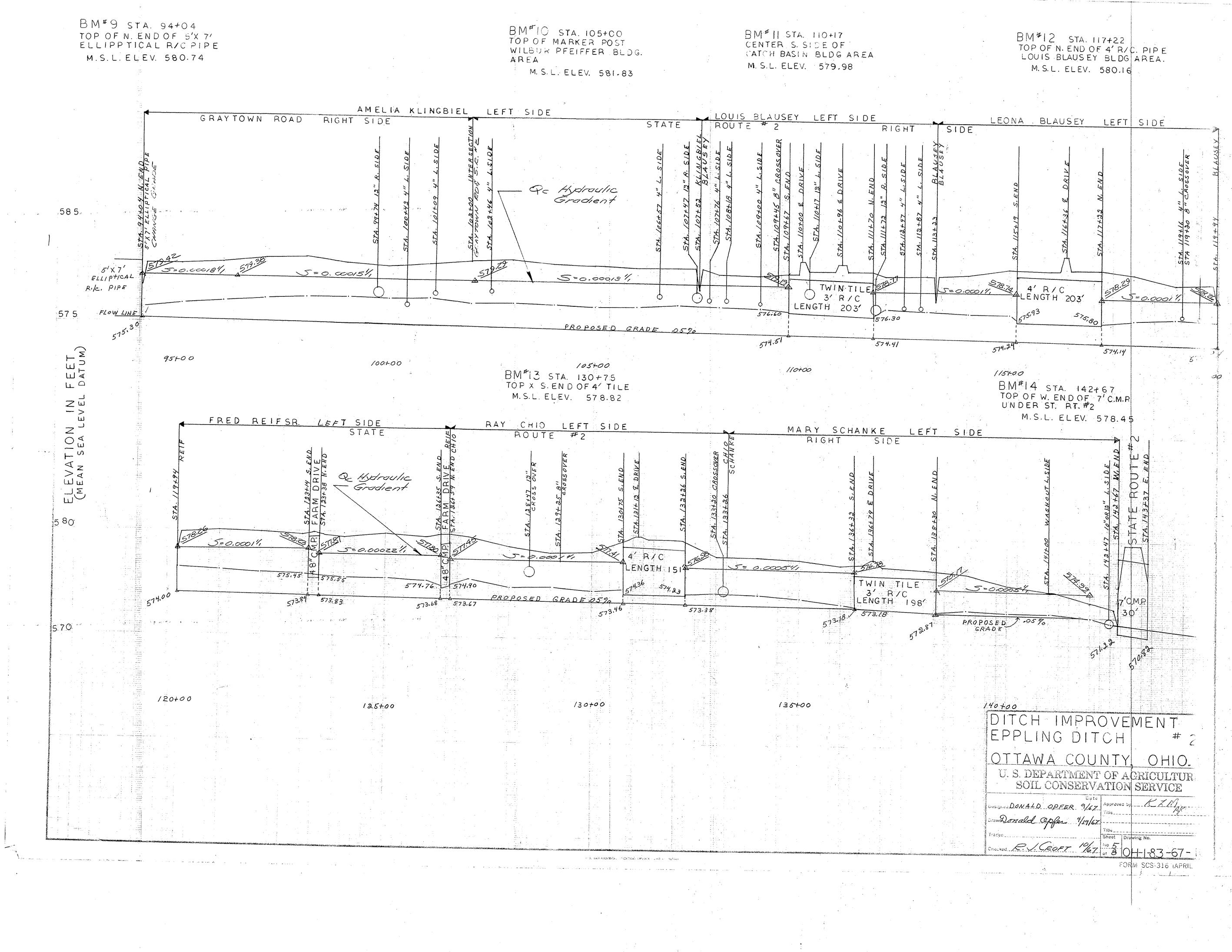
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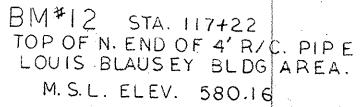




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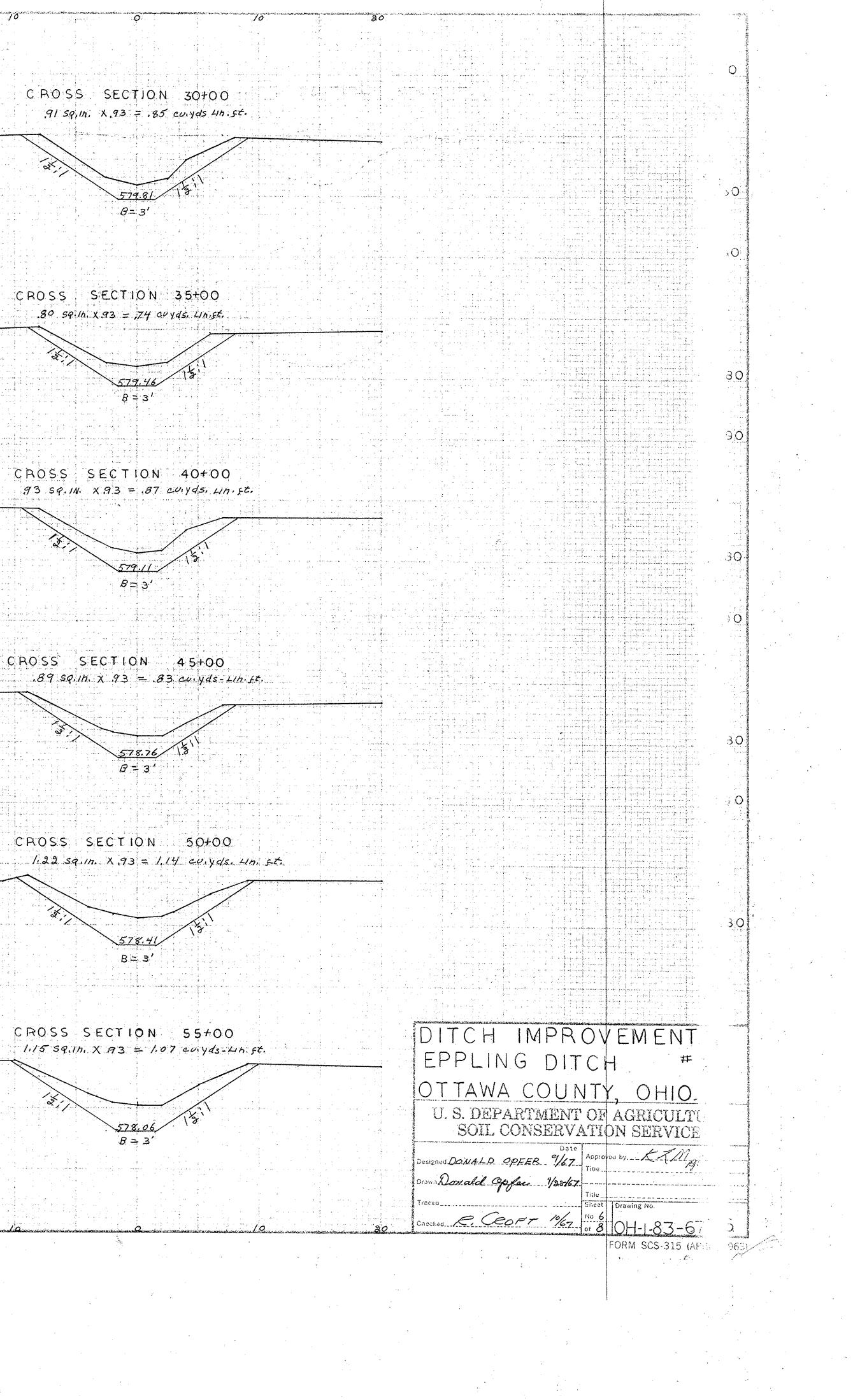
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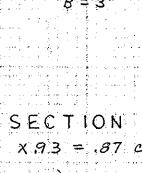
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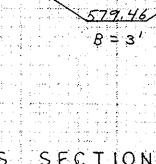
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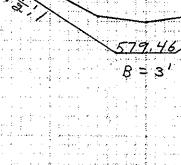
₿= 3′











590 CROSS SECTION 61+00 1,46 Sq.117, X93 = 1,36 cu.yds, Lin, 5t.

580

590 CROSS SECTION 65+00 1:57 Sq. 11. X.93 = 1.46 64 yds-Linist.

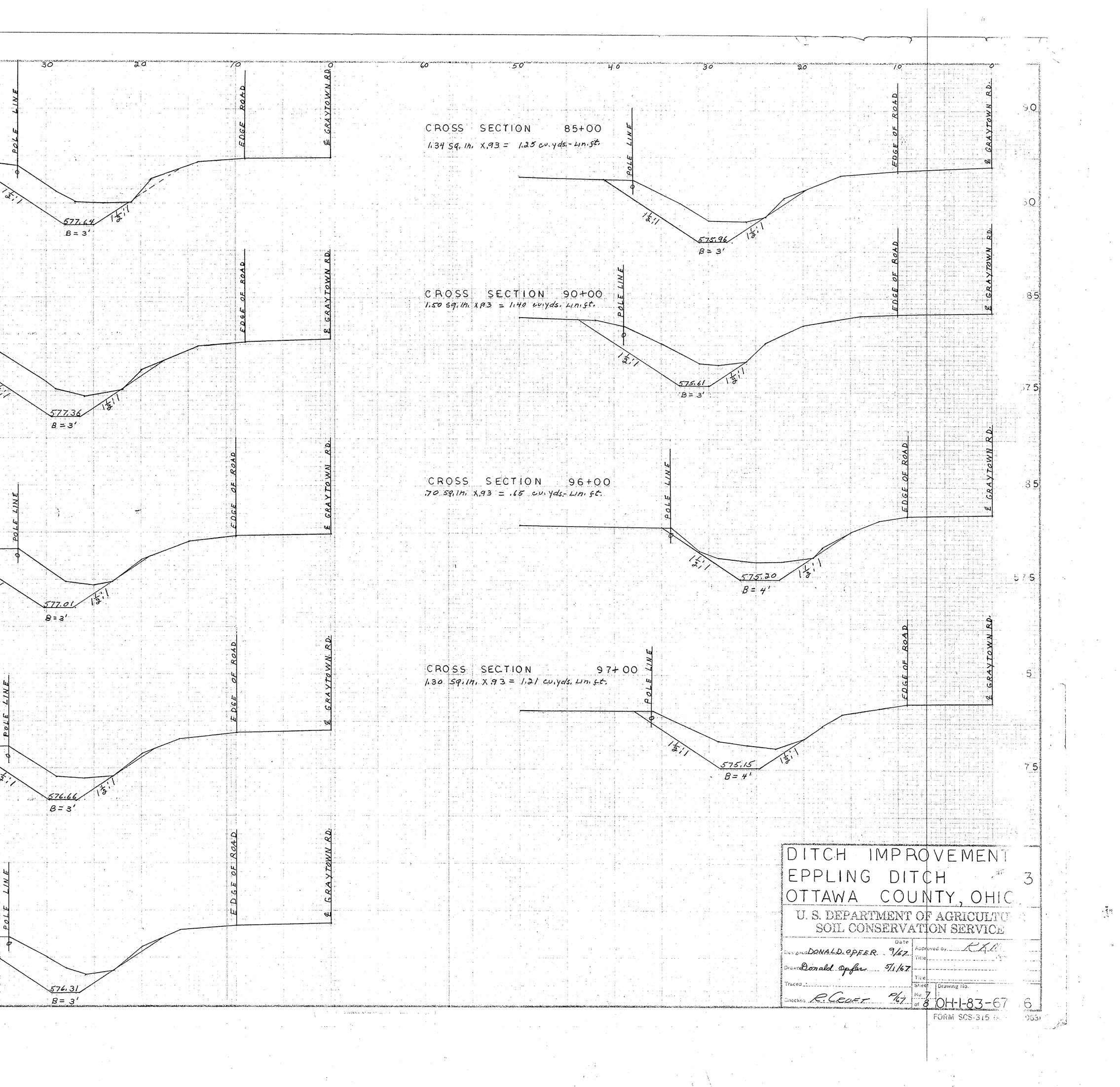
580

590 CROSS SECTION 70+00 1.67 59,14, X.93 = 1.55 cuivds-414, st.

590 CROSS SECTION 75+00 1.28 Sq. 1h. X.93 = 1.19 duiyds-41n,st.

5.80

590 CROSS SECTION 80+00 1.40 \$9.11. X.93 = 1.30 cuiyds,-Lin.st. 580



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	585	
	2.10 Sq. 14. X.93 = 1.95 cu, Yds. Lini & Er	
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575 العدم مع ميم ميد شد. - الأم المعدل معيد من الحي 585 and the second second

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574:55 B= 4' an a share 1.70 SP. 14. X 93 = 1.58 CU. Yds-LIN. 5t. Sec. 16 8 = 4 CROSS SECTIC 1.56 59.1N. X.93 = 1.45

575 \$ 574:00 B = 4' CROSS SECTIO 1.37 Sq. 17. X 93 = 1.2 580 B = 4"

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CROSS SECTION 113+00

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		an a	47	469	342	140+00	.20 .19	437		
			,99 ,90	500	450	135+00	.40 .37	132 56 500		
			. 82 94	500	470	130+00	.80 .74	1-01 500		
	4 0	a na she ana ana ana ana ana ana ana ana ana an	1.05	500	360	125+00 1	.37 1,27	en e		
			4048	500	240	120700 1	.5.6 1,45	+.52 +.52 700		
		25400 .60	.56	500	350	113+001	.70 1.58	1,46 4 00		
10 N 120+00			<u> 85 </u>	500	385	109+00	-45	1,65 500	dan in an	
5 cu. yds. 4171. 5C		որ ու ու արտանաներություն միստիները համարությունը։ Հայաստանում հայտությունը հայտությունը հայտությունը հայտությունը հայտությունը հայտությունը է հայտությունը է հայտ Հայաստանում հայտությունը հայտությունը հայտությունը հայտությունը հայտությունը հայտությունը հայտությունը հայտությ	.74	500	405	104+00 2	2,10 1.95	1.58 7 00		
		- Constraints and the providence of the state of the s	87 .85	500	425	97+00	1.30		and an a second se	
			,83 ,99	500	495	96+00	.70 65	65 300		
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10N 125+00			.55	500	662	EP	PLING D	IICH	5	
1.27 20, yds, - LIn, ft.			1,19	500	625	OTT	TAWA COL	JNTY, O	HIO	
			1.30 1,27	500	635		S. DEPARTMEN			
		[10] A. L. M. K.	1.25	500	665		SOIL CONSERV	VATION SERV	VICE	
			1.40	300	420	Designed	DONALD OPFER 9/6	5.7. Title		
		93+00 1.50	1.40 C⊍BIC	YARDS	9525 5465	Drawa Add	maid Opfer 11.16	źZ Title		
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40 130+00 CROSS SECTION .80 sq.11. x93= .74 cu.yds, Lin.st.

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<u>573,50</u> B='4'

573.95

CROSS SECTION 135+00 40 sq. in. X,93 = .37 cv. yds. - Lin. st. an in the second second

B = 4'..... n in series and a series of the series of 140+00 CROSS SECTION 30 sq. 1n. x 93 = 19 curyds-11n. st.

den en de de la composition ,573.78 ····· المراجع وترجيه ومحاف والجابية B = 12'570