AQUATIC WETLAND EMERGENT AREA
JANUARY 1999

WETLAND EMERGENT PLANTING:

This work shall consist of furnishing and planting herbaceous wetland plants of the species specified at the locations and in the patterns designated on the plans or as directed by the District Four Landscape Architect. Planting shall be carried out by the contractor according to Section 254 of the standard specifications and the following special provisions.

254.02 Materials

Wetland plants shall consist of plugs at least 100 mm (4 in) in diameter containing rhizomes, tubers, or sprigs of the species for each zone. Each plant shall possess at least one viable shoot or growing point capable of initiating above-ground growth. The depth of the plug shall be sufficient to contain all rhizomes, tubers, or sprigs, and the fibrous root system.

254.03 Types and Mixtures

Plants shall be installed according to the varieties listed below and in the zones shown on the plans:

0-150 mm (0-6 in) - Zone B

2400 each	Acorus Calamus - Sweet Flag
500 each	Iris Virginica Shrevei - Blue Flag Iris
2400 each	Polygonum Coccineum - Marsh Smartweed
2400 each	Sparganium Eurycarpum - Large Fruited Burreed

150-300 mm (6-12 in) - Zone C

100 each	Nuphar Advena - Yellow (Spatterdock) Water- Lilly
2000 each	Nymphaea Tuberosa - White (Tuberosa) Water- Lilly
500 each	Pontederia Cordata - Pickerelweed
2000 each	Scirpus Acutus - Hardstem Bulrush

254.06 Layout of Planting

Wetland varieties for each zone shall be mixed together and then randomly planted. Plants shall be planted at a spacing of 1 meter by 1 meter.

254.08

Delete this article. No mulching will be required.

254.10 - 254.11

Note that this work will be measured for payment in units of 100 perennial plants of each variety specified.

SEEDLING MIXTURE "A" - FORESTED WETLAND:

This work shall consist of furnishing and planting seedlings along the shoreline of the wetland mitigation site as shown on the plans and as specified in Section 253 of the standard specifications.

A total of 2000 seedlings are to be planted around the shoreline at a 3 meter by 3 meter spacing The species list and quantities are shown below and on the plans.

Seedling Mixture "A" - Zone A

500 each	Quercus Bicolor - Swamp White Oak
500 each	Quercus Palustris - Pin Oak
500 each	Carya Illinoensis - Pecan
500 each	Carya Laciniosa - Shellbark Hickory

253.11

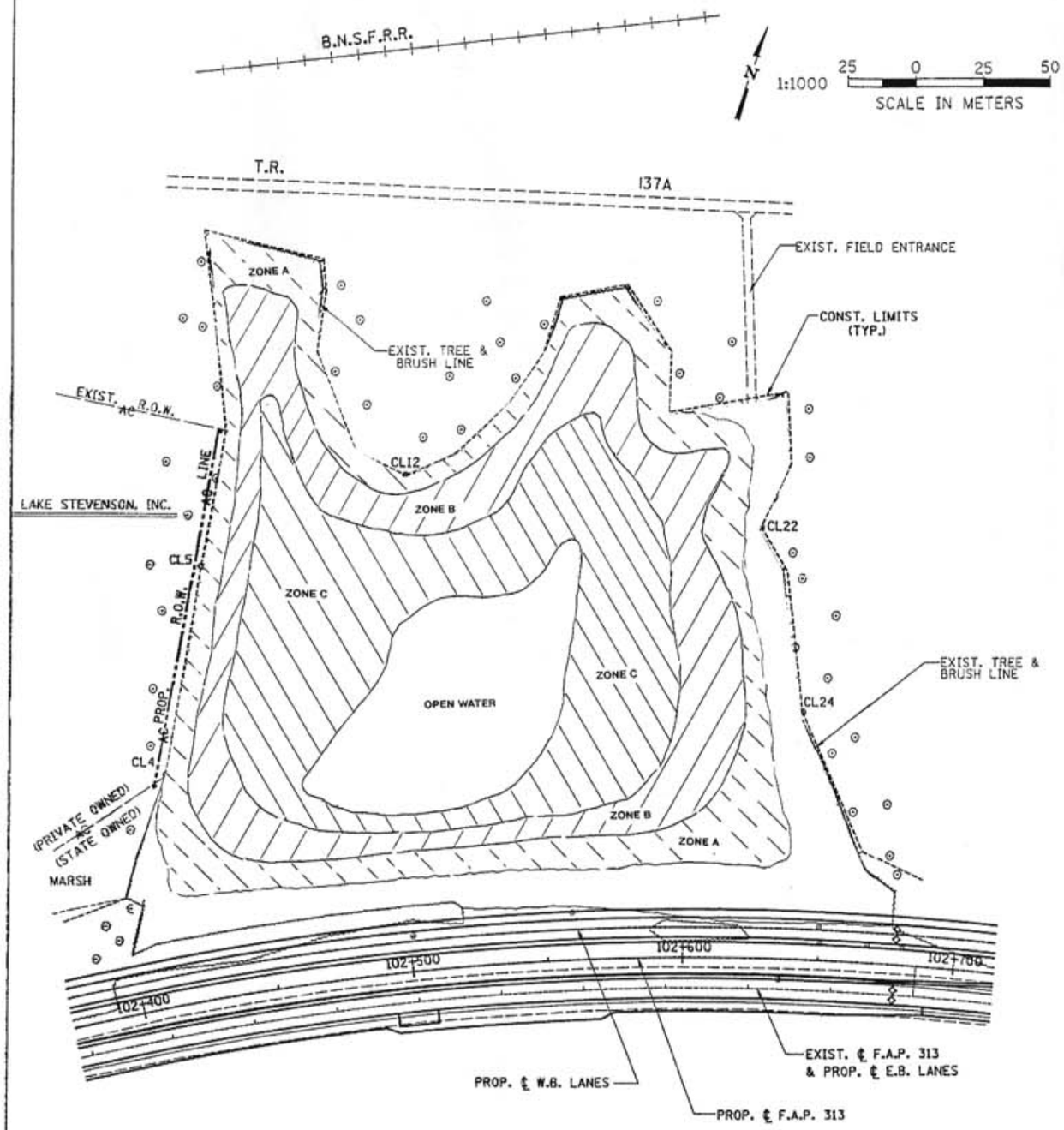
Delete this article. No mulching will be required.

253.16 - 253.17

Note that this work will be measured for payment in units of 1000 for Seedling Mixture "A".

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	*	HENDERSON		156
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*(8R-VB)BY;(8R-B)BR,B-1;8R-1



EMERGENT WETLAND PLANTING (SPACING - 1 METER X 1 METER)			
ZONE B - (0-6"DEPTH)		ZONE C - (6-12"DEPTH)	
ACORUS CALAMUS - SWEET FLAG	2400 EACH	NUPHAR ADVENA - YELLOW(SPATTERDOCK) WATER-LILLY	100 EACH
IRIS VIRGINICA SHREVEI - BLUE FLAG IRIS	500 EACH	NYMPHAEA TUBEROSA - WHITE(TUBEROUS)WATER-LILLY	2000 EACH
POLYGONUM COCCINEUM - MARSH SMARTWEED	2400 EACH	PONTEDERIA CORDATA - PICKERELWEED	500 EACH
SPARGANIUM EURYCARPUM - LARGE FRUITED BURREED	2400 EACH	SCIRPUS ACUTUS - HARDSTEM BULRUSH	2000 EACH

ZONE A - (SEEDLING MIXTURE "A")	
(SPACING - 3 METER X 3 METER)	
CARYA ILLINOENSIS - PECAN	500 EACH
CARYA LACINIOSA - SHELLBARK HICKORY	500 EACH
QUERCUS BICOLOR -SWAMP WHITE OAK	500 EACH
QUERCUS PALUSTRIS - PIN OAK	500 EACH

NOTES: ALL SEEDLING TREES TO BE 2-0 SEEDLINGS.

* PLUGS AND SEEDLINGS FOR EACH ZONE SHALL BE MIXED TOGETHER AND PLANTED AT RANDOM.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WETLAND MITIGATION SITE

TREE PLANTING PLAN

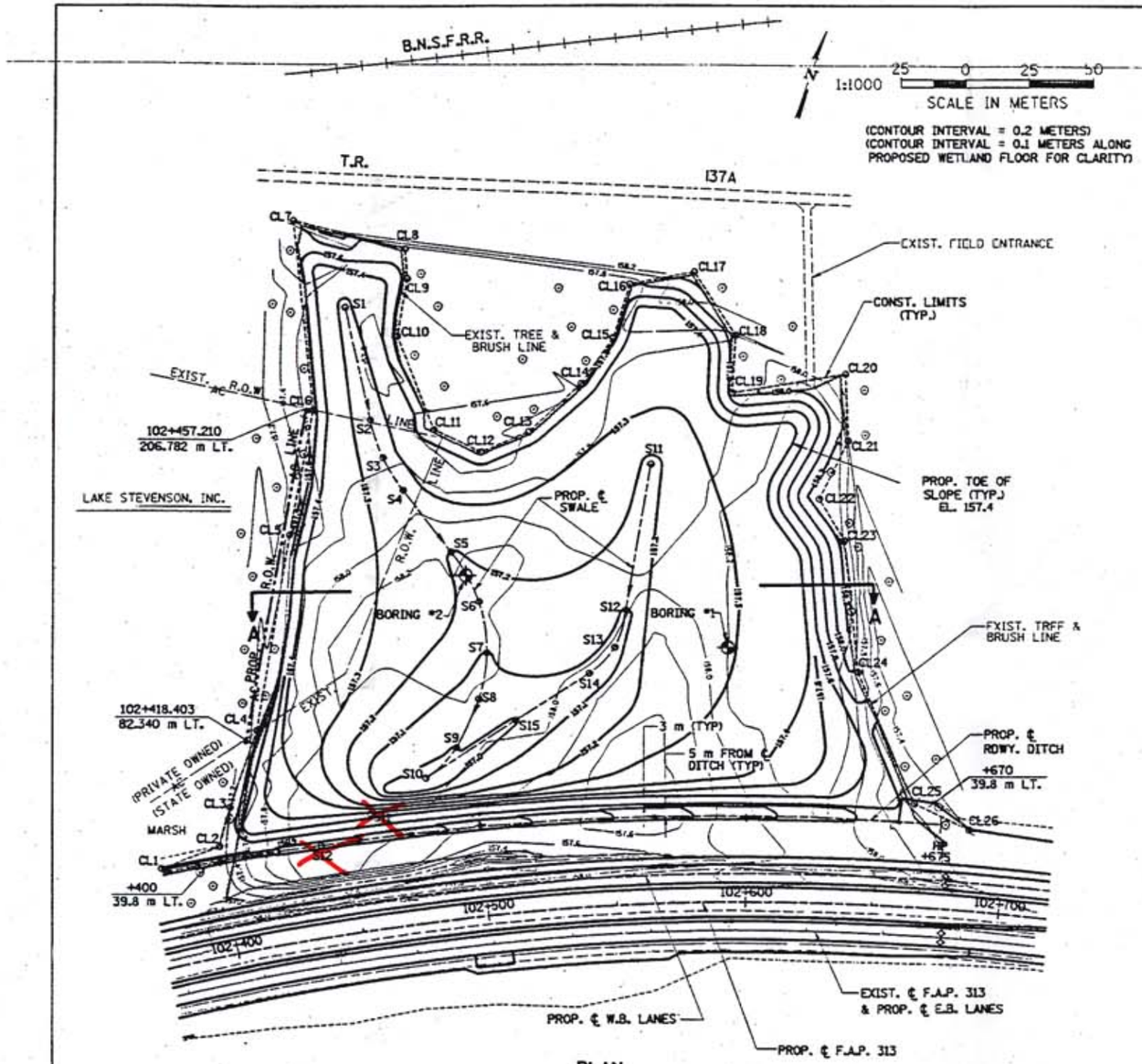
DRAWN BY SRS

DATE REVISED 01/99 CHECKED BY JJM

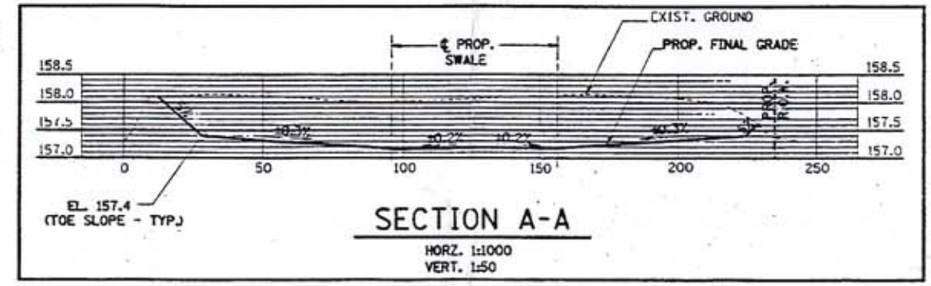
As Built Plans

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	*	HENDERSON		155
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*(8R-VB)BY;(8R-B)BR.8-1;8R-1



PLAN



SECTION A-A

HORZ. 1:1000
VERT. 1:50

HORIZONTAL CONTROL CONSTRUCTION LIMITS		
POINT NO.	STATION	OFFSET (LT.)
CL1	102+377.895	39.199
CL2	102+401.188	42.923
CL3	102+407.731	57.177
CL4	102+422.856	84.865
CL5	102+445.620	158.565
CL6	102+459.376	205.685
CL7	102+461.500	280.627
CL8	102+494.822	264.213
CL9	102+494.500	252.473
CL10	102+489.513	230.390
CL11	102+498.108	192.288
CL12	102+512.958	181.695
CL13	102+529.132	188.097
CL14	102+547.094	205.537
CL15	102+557.987	222.822
CL16	102+563.884	243.649
CL17	102+584.141	247.686
CL18	102+597.164	222.606
CL19	102+596.082	200.052
CL20	102+632.953	208.004
CL21	102+634.534	181.799
CL22	102+625.512	158.657
CL23	102+634.466	142.584
CL24	102+640.996	91.173
CL25	102+664.546	40.648
CL26	102+685.906	31.900

HORIZONTAL CONTROL CENTERLINE SWALE			
POINT NO.	STATION	OFFSET (LT.)	ELEVATION
S1	102+473.903	244.137	157.29
S2	102+477.498	198.897	157.25
S3	102+480.292	183.487	157.24
S4	102+485.690	169.894	157.23
S5	102+499.699	143.764	157.20
S6	102+507.643	123.231	157.15
S7	102+508.760	102.924	157.10
S8	102+504.281	85.125	157.05
S9	102+494.346	67.263	157.00
S10	102+481.835	56.652	156.96
S11	102+568.151	172.601	157.19
S12	102+558.431	115.825	157.10
S13	102+553.930	101.306	157.08
S14	102+544.419	91.664	157.06
S15	102+516.951	75.414	157.00

CURVE DATA
PROPOSED ℄ MEDIAN
F.A.P. 313

P.I. STA. 102+654.801
Δ = 35°-14'-21"
T = 317.406 m
R = 999.404 m
L = 614.673 m
P.C. STA. 102+337.395
P.T. STA. 102+952.068

Due to high water table (wet conditions), it was hard to fine grade. All points within .025m of proposed grade.

CONSTRUCTION SEQUENCE FOR DEVELOPMENT OF WETLAND MITIGATION SITE
(REFER TO SPECIAL PROVISIONS FOR FURTHER DETAILS)

STAGE I (TO BE COMPLETED BY FALL OF 1997)

1) CONSTRUCTION STAKING FOR SITE BOUNDARIES AND GRADING.
2) EARTH EXCAVATION AND GRADING. EXCAVATED SOIL FROM SITE TO BE USED FOR PROPOSED ROADWAY FILL.
3) ENTIRE SITE SHALL BE RIPPED (0.3 METER DEEP AT 1 METER SPACING) AND DISKED TO ACHIEVE TARGET SOIL COMPACTION
4) TEMPORARY SEEDING AND MULCHING.
5) COMPLETION OF STAGE I. NO MATERIAL STOCKPILING, EQUIPMENT STORAGE, TRANSIENT CONSTRUCTION TRAFFIC OR ANY OTHER ACTIVITIES WHICH MIGHT DAMAGE THE INTEGRITY OF THE SITE WILL BE ALLOWED.

STAGE II (TO BE COMPLETED BY SPRING OF 1999)

1) ALL ACCESS FOR STAGE II CONSTRUCTION SHALL BE LIMITED TO THE EXISTING FIELD ENTRANCE ON THE N.E. CORNER OF THE SITE (OFF T.R. 137A).
2) SITE INSPECTION FOR TARGET HYDROLOGY. RE-GRADE AS REQUIRED.
3) TEMPORARY SEEDING AND MULCHING IN THE FALL OF 1998.
4) TREE SEEDLING PLANTING IN THE SPRING OF 1999.

NOTE:

IF TARGET HYDROLOGY IS DETERMINED TO HAVE BEEN ACHIEVED IN ITEM 2, ONLY MOWING AND TREE SEEDLING PLANTING WILL BE REQUIRED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

WETLAND MITIGATION SITE

GENERAL PLAN AND SECTION

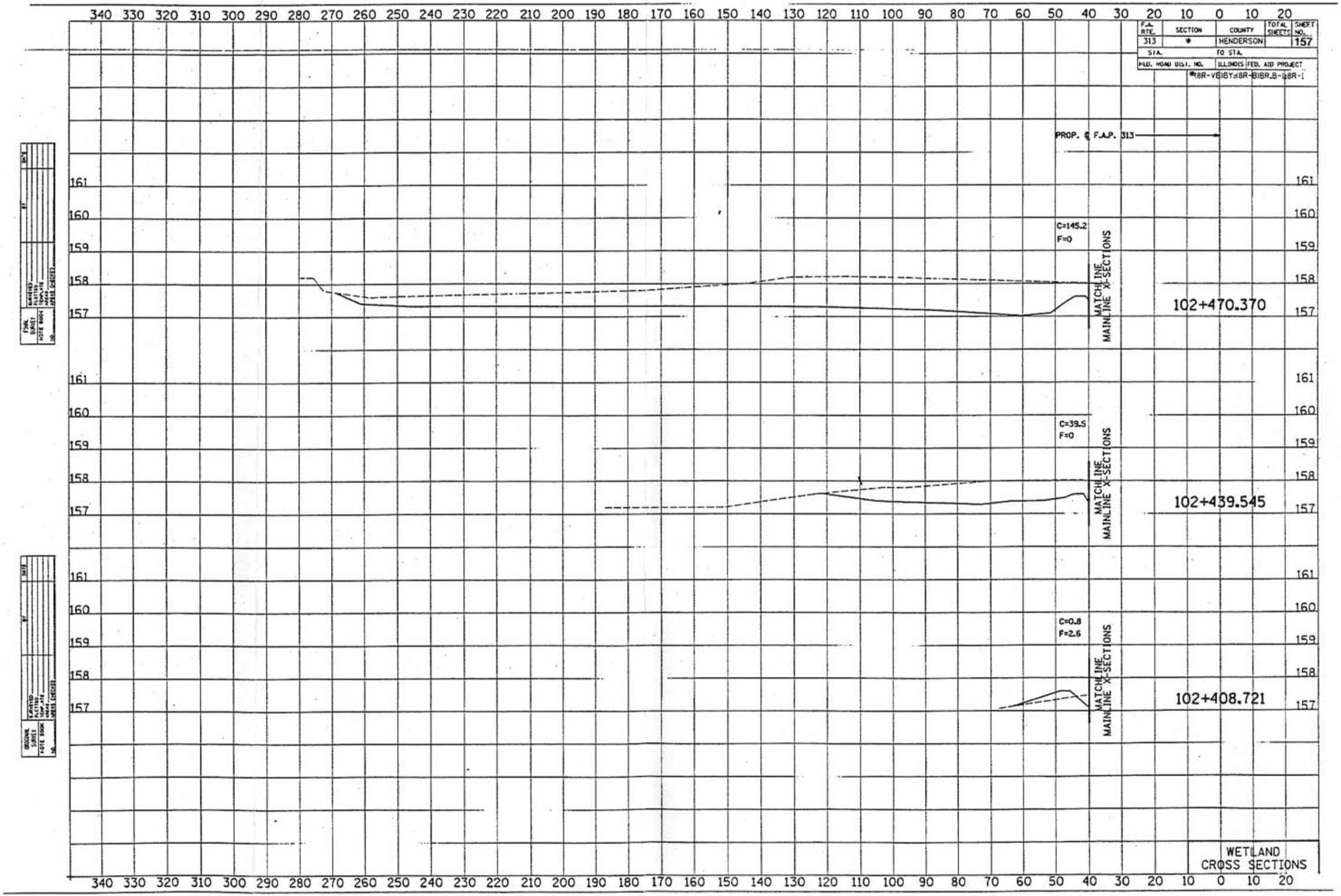
DATE 3-7-97

DRAWN BY SRS

CHECKED BY JJM

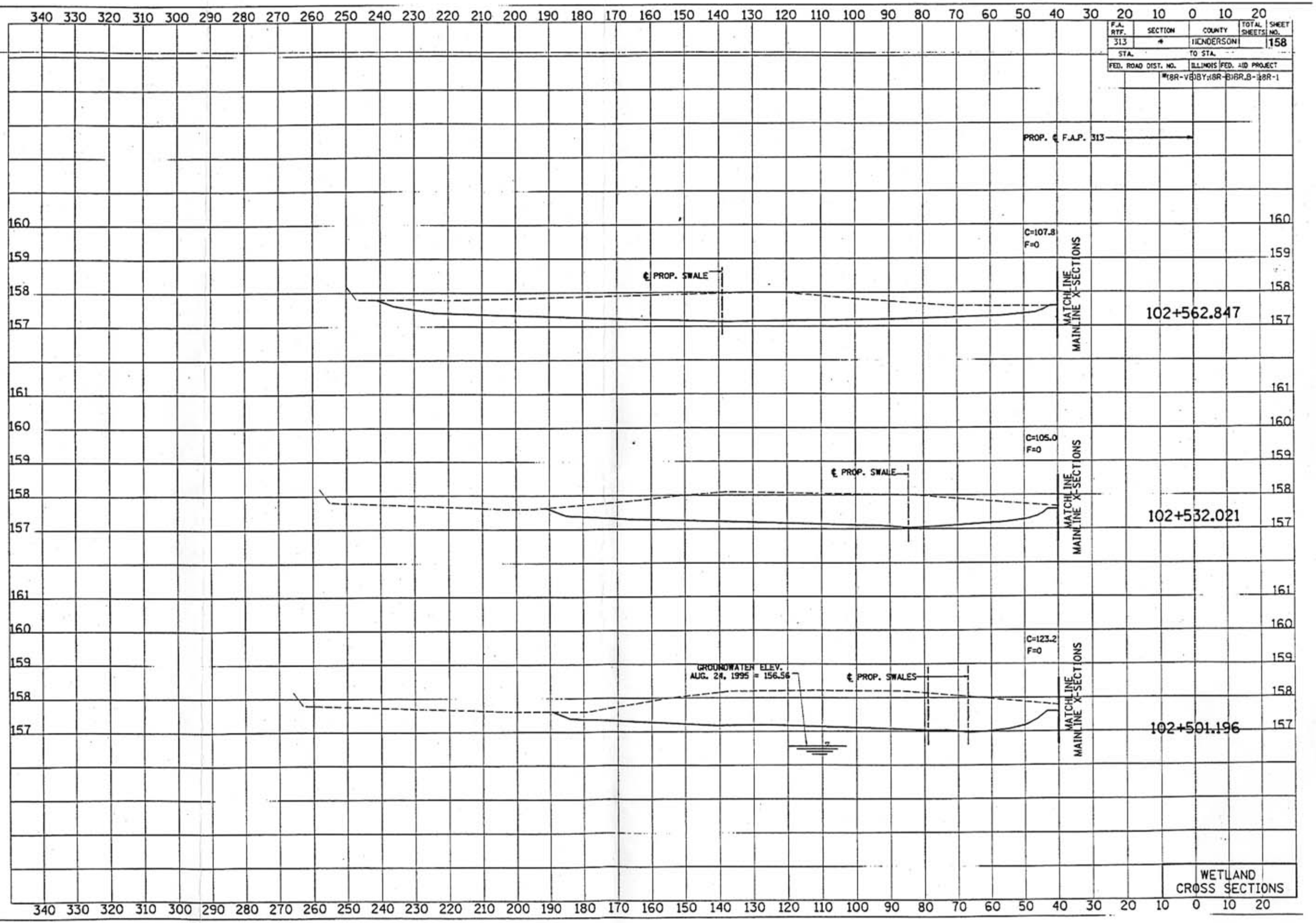
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	*	HENDERSON		157
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

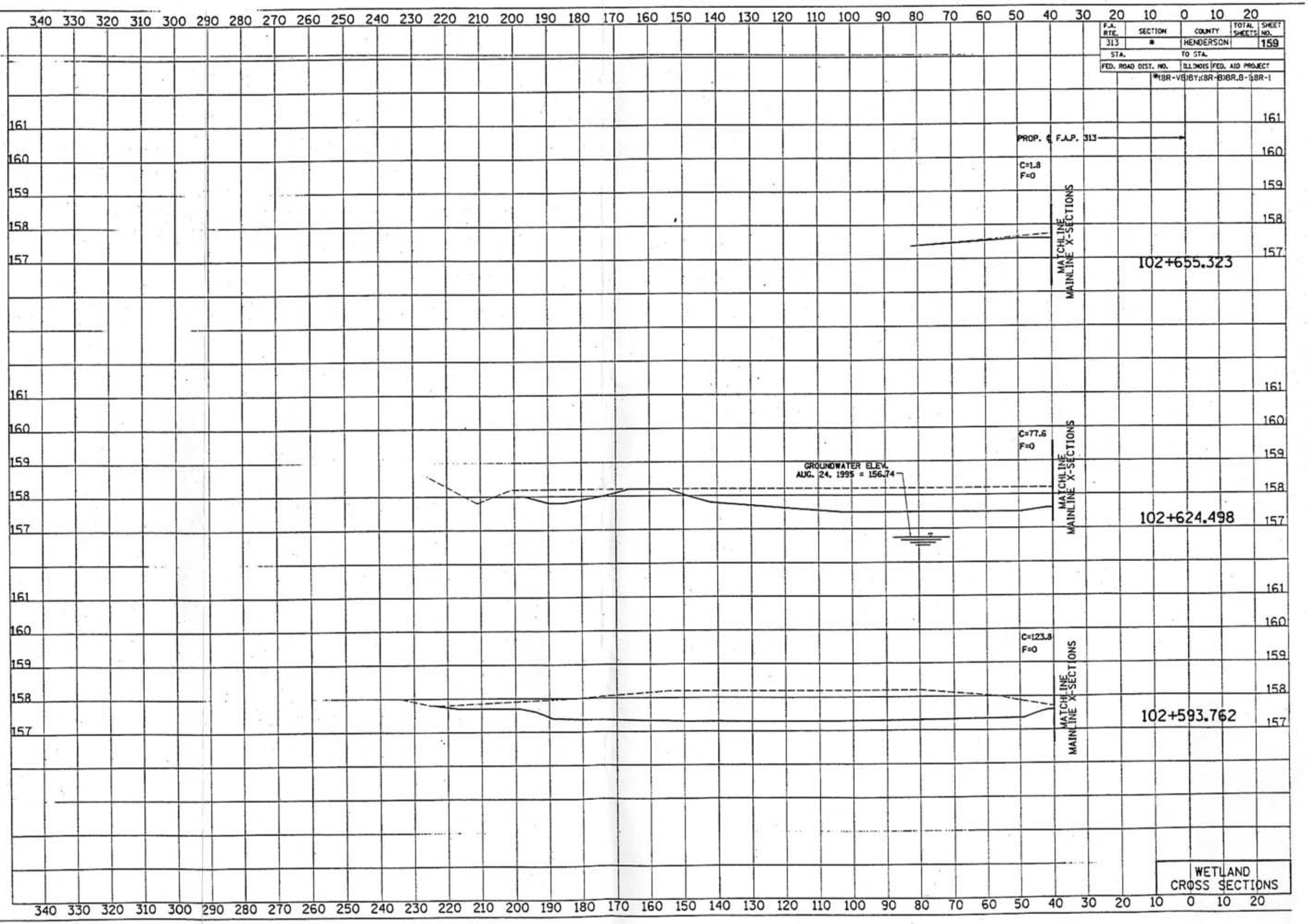
*18R-V(18)Y,(8R-B)18R,B-(8R-1



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	*	HENDERSON		158
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

*(BR-VE)BY(BR-B)BR,B-(BR-1



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
313	*	HENDERSON		159
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*(BR-VE)BY:(BR-B)BR.B-1:BR-1