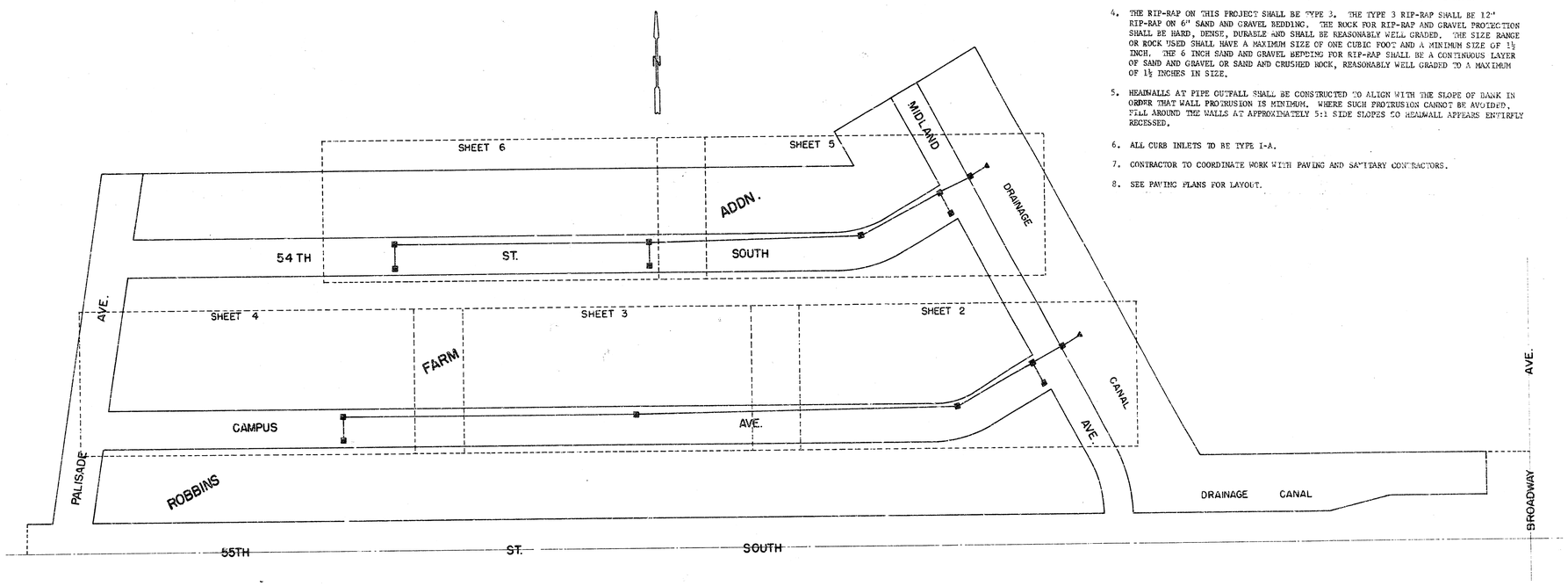
STORM WATER SEWER NO. 139

STORM WATER SEWERS IN ROBBINS FARM ADDN.

CITY OF WICHITA, KS.
R. W. LINN, CITY ENGINEER
PROJ. NO. 468 76 245 80577 000 000 001
DATE: Dec. 22, 1975



GENERAL NOTES

1. FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND THIMBLES WHICH MAY BE DESTROYED. FIELD ENGINEER SHALL REPLACE ALL IRONS AND THIMBLES WHICH ARE DESTROYED.

2. ALL CONCRETE UNLESS OTHERWISE NOTED SHALL BE "6-SACK CONCRETE".

3. ALL METAL PIPES SHALL BE HELICALLY CORRUGATED METAL PIPES FOR SIZES 21" IN DIAMETER (OR EQUIVALENT ARCH PIPE) OR SMALLER, AND FULLY PAVED CORRUGATED METAL PIPE FOR SIZES 24 INCHES IN DIAMETER (OR EQUIVALENT ARCH PIPE) OR LARGER.

4. THE RIP-RAP ON THIS PROJECT SHALL BE TYPE 3. THE TYPE 3 RIP-RAP SHALL BE 12" RIP-RAP ON 6" SAND AND GRAVEL BEDDING. THE ROCK FOR RIP-RAP AND GRAVEL PROTECTION SHALL BE HARD, DENSE, DURABLE AND SHALL BE REASONABLY WELL GRADED. THE SIZE RANGE OR ROCK USED SHALL HAVE A MAXIMUM SIZE OF ONE CUBIC FOOT AND A MINIMUM SIZE OF 1½ INCH. THE 6 INCH SAND AND GRAVEL BEDDING FOR RIP-RAP SHALL BE A CONTINUOUS LAYER OF SAND AND GRAVEL OR SAND AND CRUSHED ROCK, REASONABLY WELL GRADED TO A MAXIMUM OF 1½ INCHES IN SIZE.

5. HEADWALLS AT PIPE OUTFALL SHALL BE CONSTRUCTED TO ALIGN WITH THE SLOPE OF BANK IN ORDER THAT WALL PROTRUSION IS MINIMUM. WHERE SUCH PROTRUSION CANNOT BE AVOIDED, FILL AROUND THE WALLS AT APPROXIMATELY 5:1 SIDE SLOPES SO HEADWALL APPEARS ENTIRELY RECESSED.

6. ALL CURB INLETS TO BE TYPE I-A.

7. CONTRACTOR TO COORDINATE WORK WITH PAVING AND SANITARY CONTRACTORS.

8. SEE PAVING PLANS FOR LAYOUT.

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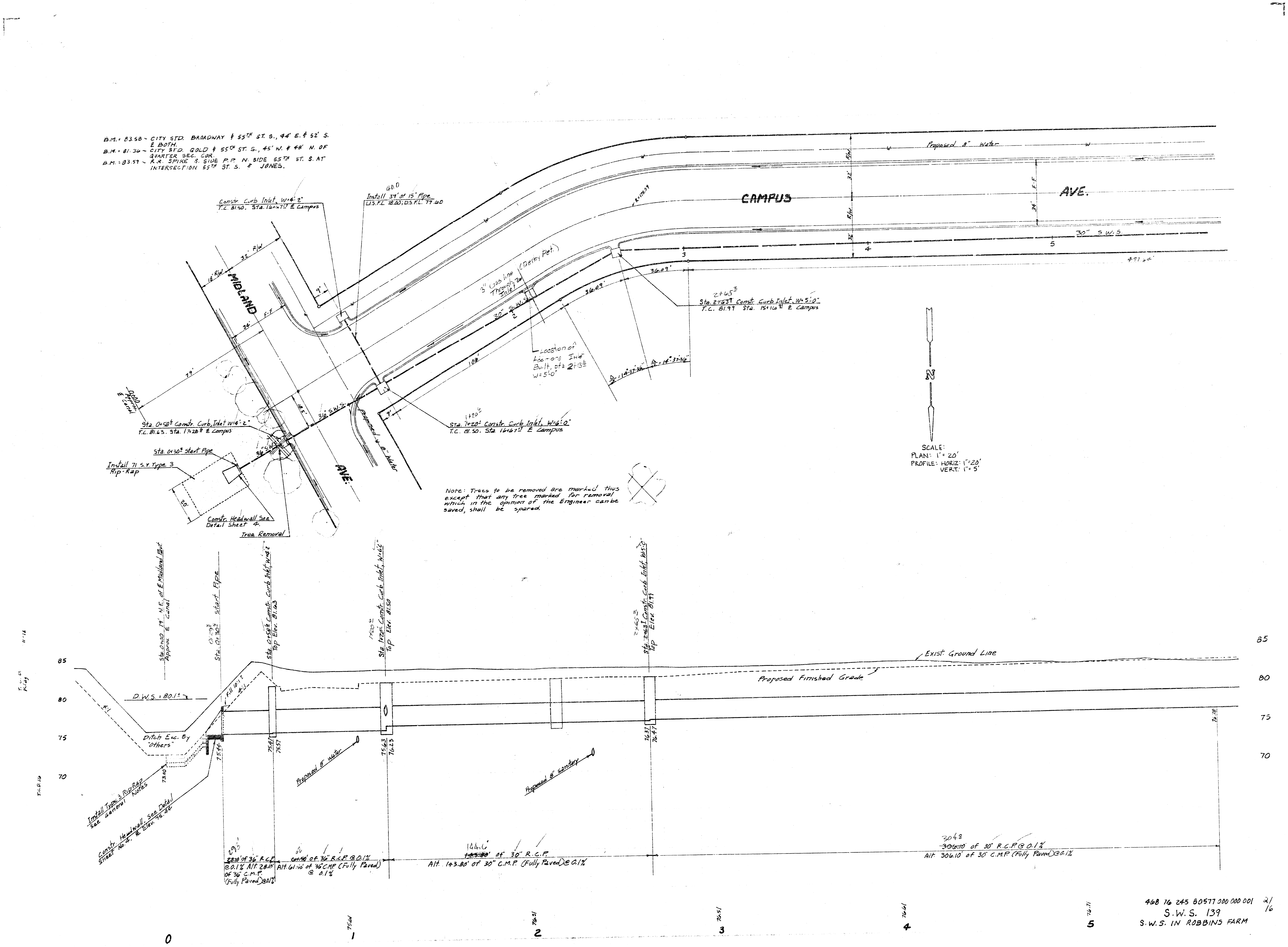
B.M. = 83.58 ~ CITY STD. BROADWAY & 55TH ST. S., 44' E. & 52' S. & BOTH.
B.M. = 81.36 ~ CITY STD. GOLD & 55TH ST. S., 45' W. & 48' N. OF QUARTER SEC. COR.
B.M. = 83.57 ~ R.R. SPIKE S. SIDE P.P. N. SIDE 55TH ST. S. AT INTERSECTION 55TH ST. S. & JONES.
Constr. Curb Inlet, W=4'-2"
T.C. 81.90. Sta. 16+47± E Campus
Install 34' of 15" Pipe
U.S.F.L. 78.00, D.S.F.L. 77.60
Proposed 8" Water
CAMPUS
AVE.
30" S.W.S.
MIDLAND
AVE.
3" Gas Line (Derby Pet.) Through Inlet
Location of Existing Inlet Built, Sta. 2+63± W=5'-0"
Sta. 2+63± Constr. Curb Inlet, W=5'-0"
T.C. 81.91 Sta. 15+16± E Campus
Sta. 1+20± Constr. Curb Inlet, W=6'-0"
T.C. 81.50. Sta. 16+67± E Campus
Sta. 0+50± Constr. Curb Inlet W=4'-2"
T.C. 81.63. Sta. 17+28± E Campus
36" S.W.S.
Sta. 0+30± Start Pipe
Install 71 S.Y. Type 3 Rip-Rap
Constr. Headwall See Detail Sheet 4.
Tree Removal
Note: Trees to be removed are marked thus except that any tree marked for removal which in the opinion of the Engineer can be saved, shall be spared.
SCALE:
PLAN: 1" = 20'
PROFILE: HORIZ: 1" = 20'
VERT: 1" = 5'
N
Sta. 0+00 19' N.E. of E Midland Ave. Approx. E Canal
Sta. 0+30± Start Pipe
Sta. 0+50± Constr. Curb Inlet, W=4'-2" Top Elev. 81.63
Sta. 1+20± Constr. Curb Inlet, W=6'-0" Top Elev. 81.50
Sta. 2+63± Constr. Curb Inlet, W=5'-0" Top Elev. 81.91
Exist. Ground Line
Proposed Finished Grade
D.W.S. = 80.1±
Ditch Exc. By "Others"
Proposed 8" Water
Proposed 8" Sanitary
Install Type 3 Rip-Rap See General Notes
Constr. Headwall See Detail Sheet No. 4. E Elev. 76.46
23.10' of 36" R.C.P. @ 0.1% Alt. 28.10' of 36" C.M.P. (Fully Paved) @ 0.1%
61.10' of 36" R.C.P. @ 0.1% Alt. 61.10' of 36" C.M.P. (Fully Paved) @ 0.1%
143.80' of 30" R.C.P.
Alt. 143.80' of 30" C.M.P. (Fully Paved) @ 0.1%
306.10' of 30" R.C.P. @ 0.1%
Alt. 306.10' of 30" C.M.P. (Fully Paved) @ 0.1%
85
80
75
70
0
1
2
3
4
5
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S.W.S. IN ROBBINS FARM
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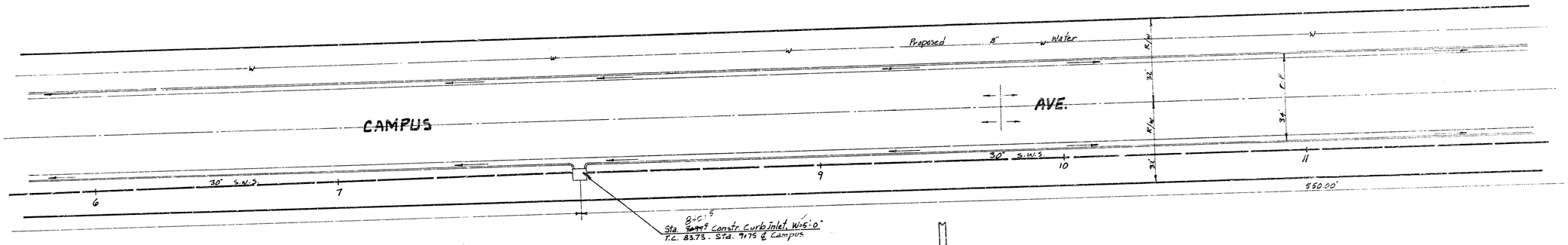

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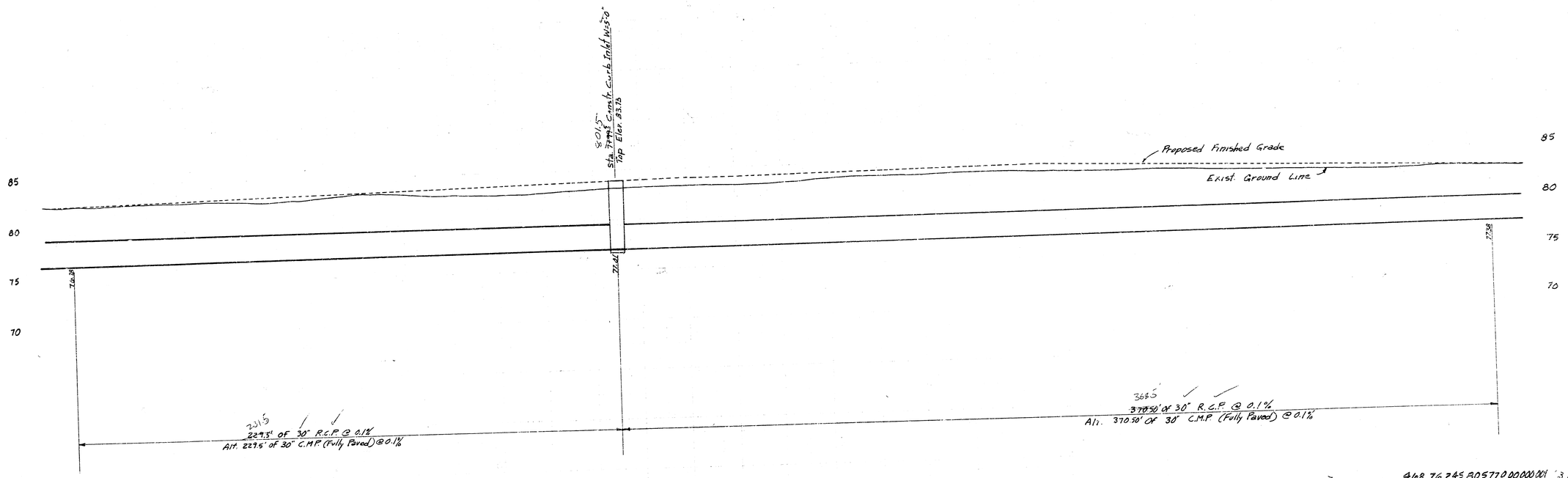
SCALE:
PLAN: 1"= 20'
PROFILE: HORIZ: 1"= 20'
VERT: 1"= 5'



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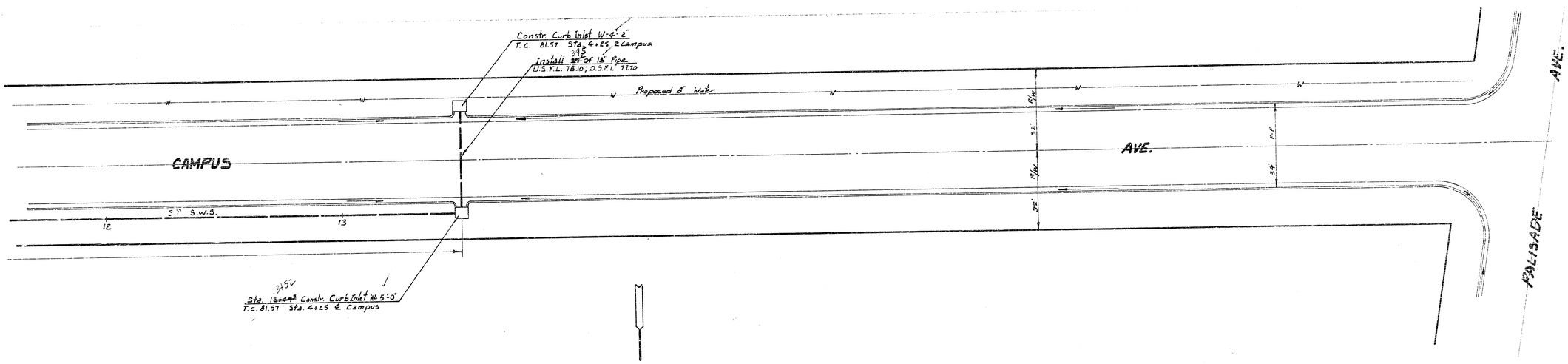
S.W.S. 139
S.W.S. IN ROBBINS FARM



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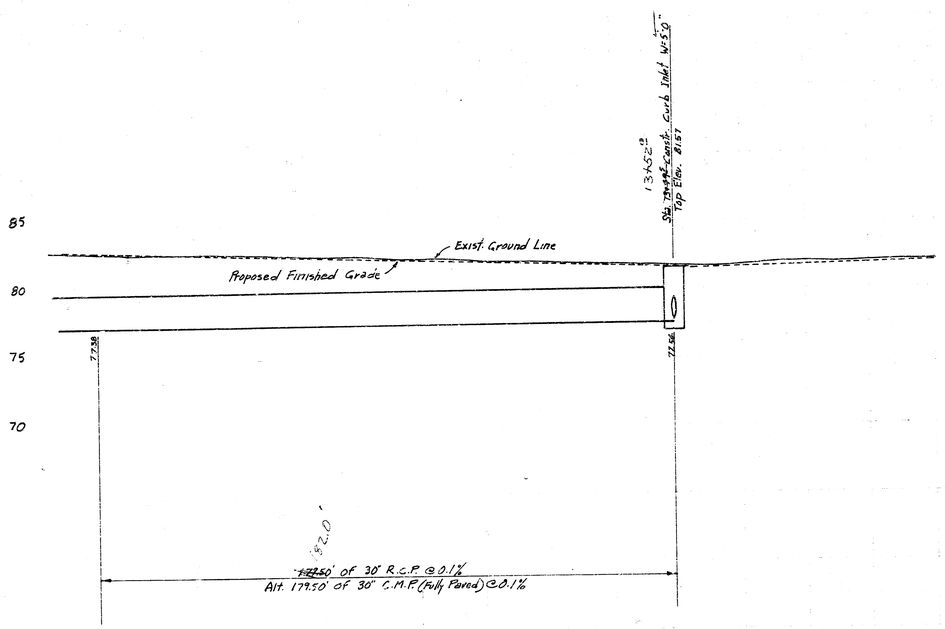
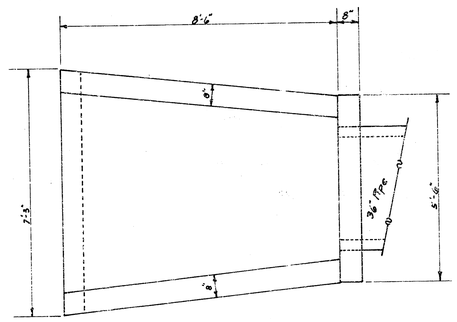
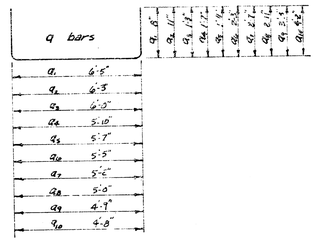
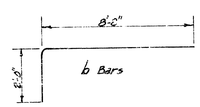
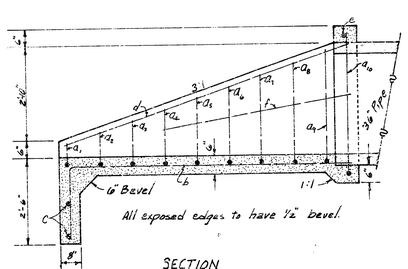




PLAN
SCALE: 1/2" = 1'-0"







SECTION
SCALE: 1/2" = 1'-0"

TABLE OF QUANTITIES.				
BARS	NUMBER	LENGTH	SHAPE	WEIGHT
a_1	1	7' 9"		5.177
a_2 a_3	1 1	8' 1" 8' 4"		5.400 5.618
a_4 a_5 a_6	1 1 1	9' 0" 9' 5" 9' 11"		6.012 6.290 6.624
a_7 a_8 a_9	1 1 1	10' 4" 10' 10" 11' 3"		6.903 7.237 7.515
a_{10} b C	1 8 2	13' 0" 10' 8" 6' 9"		8.686 57.000 9.018
d e f	2 1 2	9' 3" 5' 0" 6' 0"		12.358 3.340 8.016
TOTAL REBAR, lbs.				155.252
CONCRETE, C.Y.				2.60

All Rebar to be #4.

HEADWALL FOR 36" PIPE

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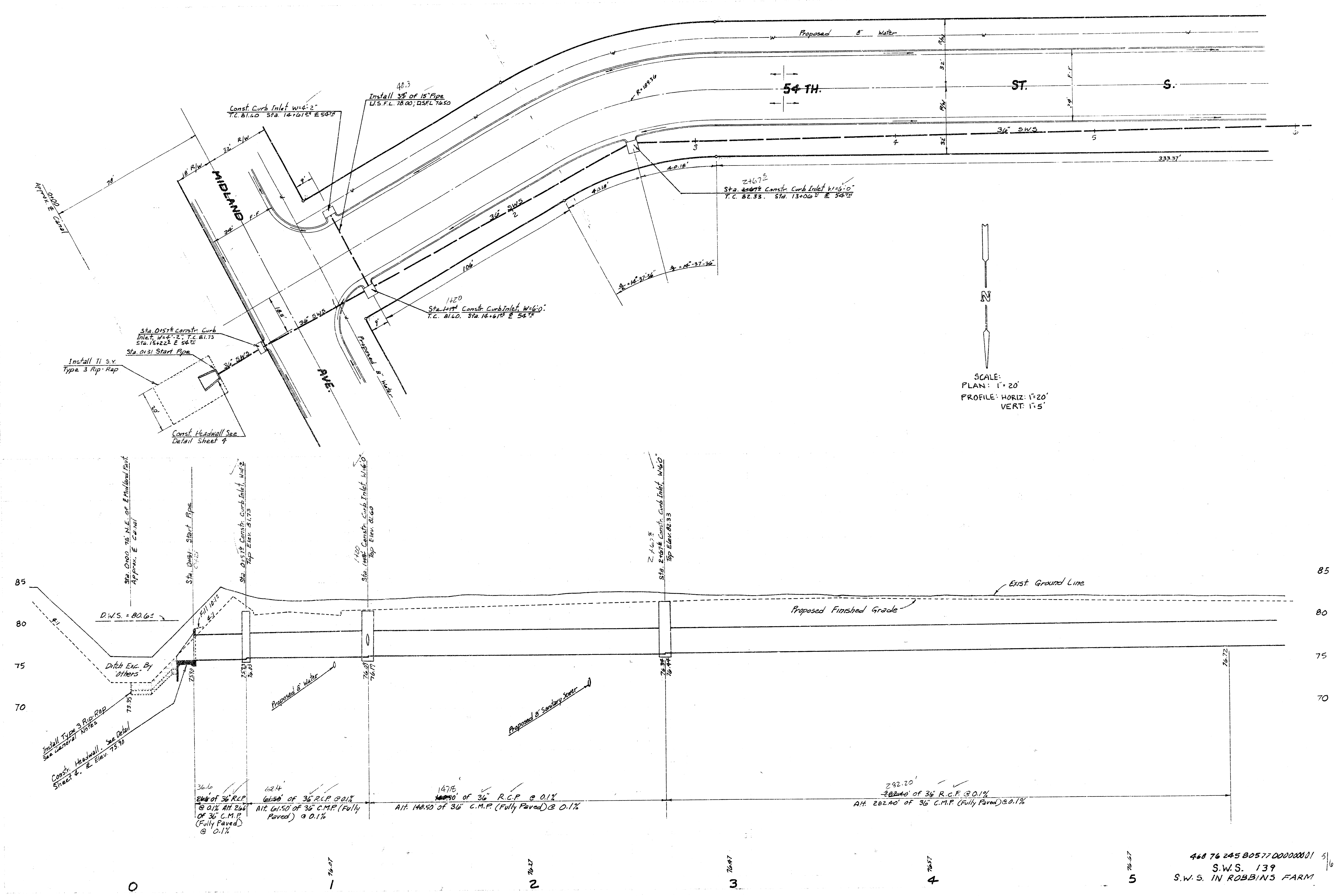

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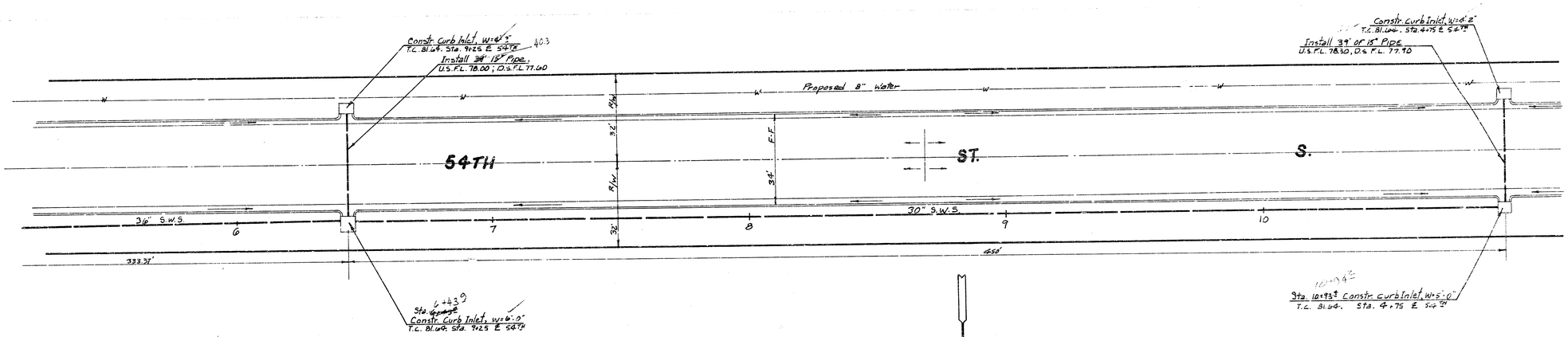
S.W.S. 139
S.W.S. IN ROBBINS FARM



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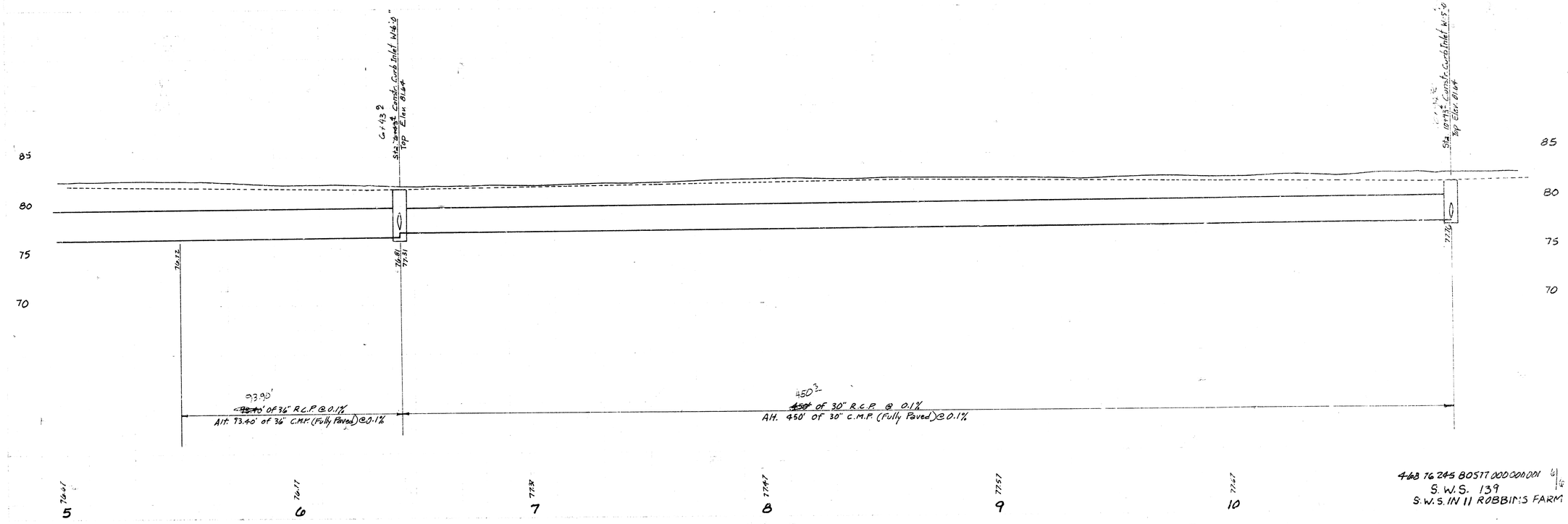

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S.W.S. 139
S.W.S. IN 11 ROBBINS FARM