

11a

GRADING

PROJECT NO: LFM-(D50)--73-97

WOODBURY COUNTY

September 10, 2019

Project Development Division
 PLANS OF PROPOSED IMPROVEMENT ON THE
SECONDARY ROAD SYSTEM
WOODBURY COUNTY
GRADING

PROJECT NO. LFM-(D50)--73-97

Miller Township On 250th St. (D50) from Highway 31 to L27

UTILITY CONTACTS
 WESTERN IOWA TELEPHONE - 712-870-1258
 WOODBURY COUNTY REC - 712-870-1031

The Iowa Department of Transportation Standard Specifications for Highway and Bridge Construction, series 2015, plus current Supplemental Specifications and Special Provisions shall apply to construction work on this project.

Plus Current Special Provisions and Supplemental Specifications

THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES' NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2. REFER TO SECTION 2602 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

TRAFFIC CONTROL PLAN

BARRICADES.
 THIS ROAD WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. TRAFFIC ROUTES ADJACENT TO PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.02 OF THE CURRENT STANDARD SPECIFICATIONS. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNS, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATION CODE (IAC) CHAPTER 130.

MAINTENANCE OF SIGNS AND BARRICADES AS STATED IN ARTICLE 1107.03 SHALL APPLY ON THIS PROJECT.

SIGNS ON THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH ROAD STANDARD AND TC-252

Approved
Board of Supervisors



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Mark J. Nahra 8/20/2019
Date

Iowa Registration Number 11452
Expiration Date 12/31/2020

Pages or sheets covered by this seal:
Pages 1 THROUGH 102

2015 AADT 30 V.P.D.

Project Number: LFM-(D50)--73-97

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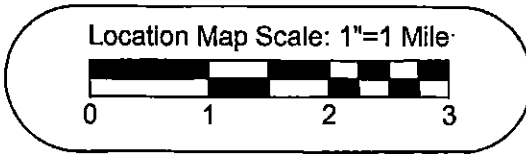
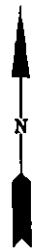
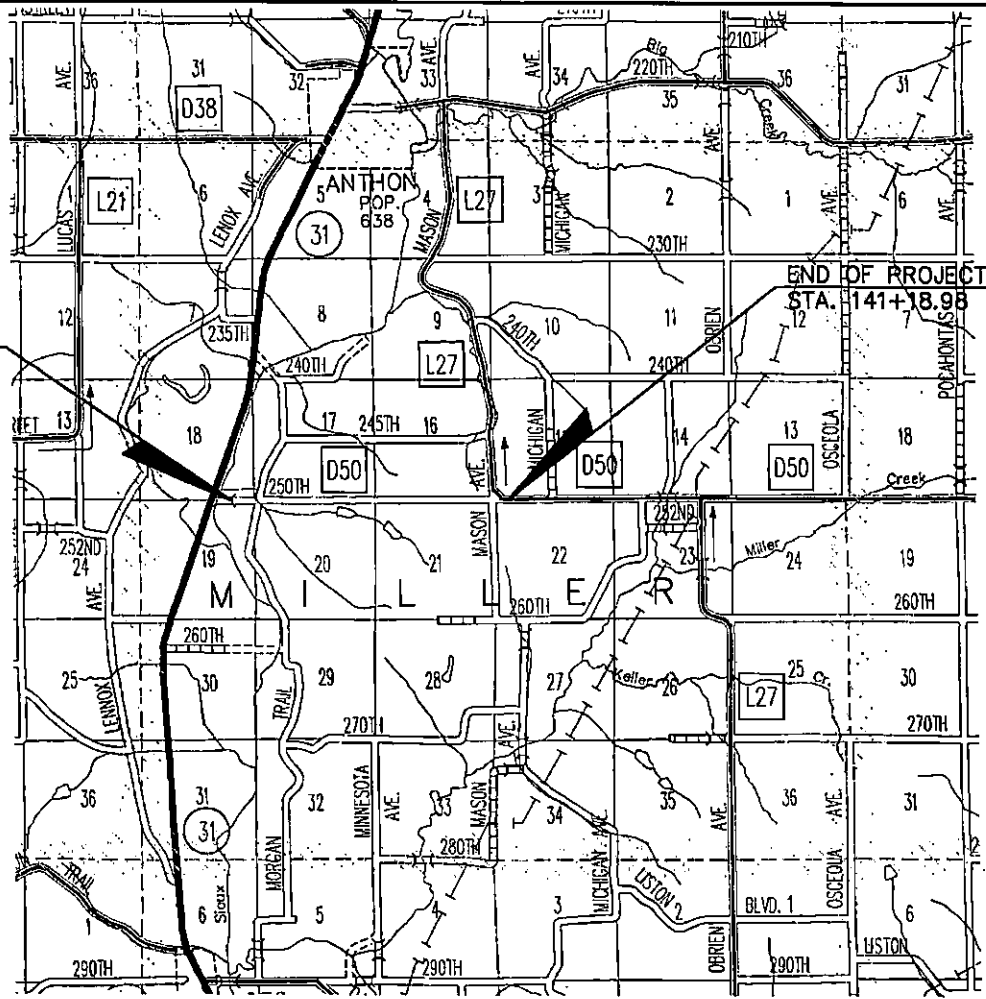
ROAD STANDARD PLANS					
The following Standard Plans shall be considered applicable to construction work on this project.					
Identification	Date	Identification	Date	Identification	Date
DR-101	04-18-17	DR-203	04-21-15	EW-102	10-20-15
DR-102	04-21-15	DR-211	04-24-18	EW-110	10-20-15
DR-103	04-21-15	DR-801	04-18-17	MI-101	10-20-15
DR-104	04-19-18	DR-871	04-19-17	MI-303	10-20-15
DR-121	10-17-17	EC-201	10-15-19	TC-252	04-19-18
DR-141	04-18-17	EC-301	10-18-16		
DR-201	10-16-18	EW-101	10-17-17		

MILEAGE SUMMARY			
Div.	Location	Lin. Ft.	Miles
I	STA. 12+00.00 TO STA. 141+18.88	12,918.88	2.447
II	STA. 8+00.00 TO STA. 21+70.00	1,370.00	0.260
III	STA. 12+00.00 TO STA. 24+00.00	1,200.00	0.227
TOTAL LENGTH PROJECT		15,488.88	2.934



BEGINNING OF PROJECT
STA. 12+00.00

END OF PROJECT
STA. 141+18.98



WOODBURY COUNTY
ENGINEERS OFFICE

DESIGNED BY:	DATE:
CHK'D BY:	REVISION:
APPROVED BY:	
DATE:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP

SHEET DESCRIPTION: LOCATION MAP

PROJECT NO.
LFM-(080)-73-07
SHEET

ESTIMATED QUANTITIES

No.	ITEM CODE	ITEM	UNIT	D50 DIVISION I	MORGAN TR DIVISION II	MASON AVE DIVISION III	TOTAL
1.	2101-0850001	CLEARING AND GRUBBING	ACRE	25.11	1.19	1.70	28.00
2.	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CU. YDS.	509,753	14,422	13,704	537,879
3.	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CU. YDS.	22,160	0	5,813	27,973
4.	2312-8280310	GRANULAR SURFACE ON ROAD, CRUSHED CONCRETE	TON	9,800	1,100	900	11,800
5.	2401-8745550	REMOVAL OF EXISTING STRUCTURES	L.S.	1	0	0	.1
6.	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CU. YDS.	3,412	762	240	4,414
7.	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	2	0	0	2
8.	2416-0100030	APRONS, CONCRETE, 30 IN. DIA.	EACH	1	0	0	1
9.	2416-0100036	APRONS, CONCRETE, 36 IN. DIA.	EACH	1	0	0	1
10.	2416-0100048	APRONS, CONCRETE, 48 IN. DIA.	EACH	3	1	0	4
11.	2416-0100060	APRONS, CONCRETE, 60 IN. DIA.	EACH	1	0	0	1
12.	2416-1180024	CULVERT, CONCRETE ROADWAY PIPE, 24 IN. DIA.	L.F.	340	0	0	340
13.	2416-1180030	CULVERT, CONCRETE ROADWAY PIPE, 30 IN. DIA.	L.F.	130	0	0	130
14.	2416-1180036	CULVERT, CONCRETE ROADWAY PIPE, 36 IN. DIA.	L.F.	296	0	0	296
15.	2416-1180048	CULVERT, CONCRETE ROADWAY PIPE, 48 IN. DIA.	L.F.	358	114	0	482
16.	2416-1180060	CULVERT, CONCRETE ROADWAY PIPE, 60 IN. DIA.	L.F.	114	0	0	114
17.	2417-0225024	APRONS, METAL, 24 IN. DIA.	EACH	0	2	0	2
18.	2417-0225036	APRONS, METAL, 36 IN. DIA.	EACH	0	0	2	2

ESTIMATED QUANTITIES

No.	ITEM CODE	ITEM	UNIT	D50 DIVISION I	MORGAN TR DIVISION II	MASON AVE DIVISION III	TOTAL
19.	2417-0330024	APRONS, SAFETY SLOPE, 24 IN. DIA.	EACH	18	0	0	18
20.	2417-1040024	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 24 IN. DIA.	L.F.	504	34	0	538
21.	2417-1080036	CULVERT, CORRUGATED METAL ROADWAY PIPE, 36 IN. DIA.	L.F.	0	0	120	120
22.	2507-8029000	EROSION STONE	TON	164	0	12	176
23.	2510-6745550	REMOVAL OF PAVEMENT	SQ. YDS.	3150.15	0	0	3150.15
24.	2516-6910000	SAFETY CLOSURE	EACH	2	2	2	6
25.	2519-3300400	FIELD FENCE BRACE PANELS	EACH	200	5	32	237
26.	2519-4200010	REMOVAL AND INSTALLATION OF FENCE, BARB WIRE	L.F.	21,770	274	2,077	24,121
27.	2625-8445110	TRAFFIC CONTROL	L.S.	0.34	0.33	0.33	1
28.	2533-4980005	MOBILIZATION	L.S.	0.34	0.33	0.33	1
29.	2598-0099005	RCP TEE SECTION DROP INLETS	EACH	6	1	0	7
30.	2601-2634100	MULCHING	ACRE	39.46	1.19	4.98	45.63
31.	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	39.46	1.19	4.98	45.63
32.	2602-0000020	SILT FENCE	L.F.	24,242	1,519	1,209	26,969
33.	2602-0000030	SILT FENCE FOR DITCH CHECKS	L.F.	2,671	111	396	3,178
34.	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CK	LF	6000	300	300	5,800
35.	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1	0	0	1
36.	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1	0	0	1

DRAWN BY: _____
 PK DESIGNED BY: _____
 MAIN APPROVED BY: _____
 DATE: _____

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP

SHEET DESCRIPTION: ESTIMATE OF QUANTITIES

ESTIMATE REFERENCE INFORMATION

1. CLEAR AND GRUB SHALL CONSIST OF REMOVAL OF ALL VEGETATION IN THE CONSTRUCTION LIMITS. ALL WOOD MATERIALS, BRUSH, TREES ETC., SHALL BE DISPOSED OFF OF THE PROJECTS LIMITS. NO BURNING WITHIN THE PROJECT LIMITS ALLOWED. IF THE CONTRACTOR WANTS TO BURN ON PRIVATE PROPERTY ADJACENT TO THE PROJECT THEY WILL SUPPLY WOODBURY COUNTY WITH A LETTER SIGNED BY THE LAND OWNER ALLOWING THE BURNING.
2. MATERIAL SHALL BE FREE FROM FOREIGN MATERIAL AND HAVE ADEQUATE MOISTURE TO ALLOW COMPACTION AT THE CONTRACTOR'S EXPENSE IF NECESSARY TO COMPLETE COMPACTION. ROADWAY SHALL BE COMPACTED USING A METAL ROLLER DRUM OR SHELL WITH TAMPING FEET PROJECTING A MINIMUM OF 6 1/2 INCHES FROM THE SURFACE OF THE ROLLER, DRUM OR SHELL. THE CROSS SECTION AREA OF EACH TAMPING FOOT, MEASURED PERPENDICULAR TO THE AXIS OF THE TAMPING FOOT, SHALL BE 4 TO 12 SQUARE INCHES. EACH FOOT SHALL BE ABLE TO PROVIDE A MINIMUM OF 200 POUNDS PER SQUARE INCH. FILL CALCULATIONS INCLUDE A 40% SHRINKAGE FACTOR, NO PAYMENT FOR OVERHAUL WILL BE ALLOWED. DRIVEWAYS AND ENTRANCE CONSTRUCTION INCLUDED IN THE CALCULATIONS. EXISTING ROADWAY SHALL BE CUT AND THE MATERIAL PLACED IN SUCH A WAY THAT ALLOWS THE TRAPEZOIDAL ROADWAY SECTION TO BE CONSTRUCTED IN A UNIFORM FASHION. MATERIAL SHALL BE PLACED IN NOT MORE THEN 12" LAYERS AND COMPACTED. EXISTING SOIL SHALL BE DISKED BEFORE PLACING ANY BACKFILL MATERIAL.

DIV. I 509,753 C.Y. (FILL+40%)=463,909 C.Y. CUT = 44,042 C.Y. TO BE GENERATED FROM DIVISION III

DIV. II 14,422 C.Y. (FILL+40%)=21 C.Y. CUT = 14,402 C.Y. TO BE GENERATED FROM DIVISION I

DIV. III 13,704 C.Y. (FILL+40%)=73,875 C.Y. = 60,171 C.Y. GENERATED TO BE USED ON DIVISION I AND FIELD ENTRANCE'S.
3. TOPSOIL SHALL BE REMOVED AT A DEPTH OF 12" ON ALL BORROW LOCATIONS AND STOCKPILED. THE TOPSOIL SHALL BE PLACED BACK ON THE EXCAVATED BORROW AREAS AT A DEPTH OF 12". THE BORROW AREAS SHALL BE DISKED TO A DEPTH OF 12" PRIOR TO PLACING THE TOPSOIL. SILT FENCE SHALL BE IN PLACE PRIOR TO OPENING ANY BORROW.
4. GRANULAR SURFACING SHALL BE PLACED IN TWO LIFTS. THE FIRST LIFT SHALL BE 3 INCHES AND SHALL BE SCARIFIED INTO THE FINISHED ROADWAY SURFACE AND COMPACTED. THE ROADWAY GRADE SHALL BE CORRECTED AND CROWNED USING A MOTOR GRADER PRIOR TO PLACING THE FINAL LIFT OF SURFACING. THE FINAL LIFT SHALL BE TWO INCHES AND COMPACTED USING A SMOOTH DRUM ROLLER. THE CRUSHED CONCRETE SHALL MEET GRADATION 14 OF THE IOWA STANDARD SPECIFICATIONS 2015 EXCEPT THERE SHALL BE 100% PASSING THE 1". MATERIAL SHALL BE FREE OF WOOD, METAL AND WIRE, IF THOSE MATERIALS ARE FOUND THE CONTRACTOR WILL USE A MAGNETIC DEVICE TO REMOVE THE METAL (STEEL) TO THE SATISFACTION OF THE ENGINEER.
5. REMOVE AND DISPOSE OF CULVERTS AS LISTED IN TABULATIONS ON SHEET B.
6. BID ITEM IS FOR EXCAVATION REQUIRED FOR THE INSTALLATION OF ROADWAY PIPE CULVERTS ON SHEET B.
- 7-16. ALL CONCRETE ROADWAY CULVERT PIPE JOINTS SHALL BE PER IDOT STANDARD DR-121 TYPE 3 CONNECTIONS. COST OF FURNISHING AND PLACING TIED JOINTS TO BE CONSIDERED INCIDENTAL TO PRICE BID FOR CONCRETE PIPE. TABULATIONS ON SHEET B FOR CLASS OF PIPE REQUIRED. TRASH RACKS AS ILLUSTRATED ON SHEETS 9 & 10 AND TABULATED ON SHEET 8 ARE INCIDENTAL TO BID ITEMS 7-16.
- 17-21. CORRUGATED METAL CULVERTS SHALL BE RIVETED AND 12 GAUGE. LOCATIONS ARE DESCRIBED IN TABULATION OF DRIVEWAY AND FIELD ENTRANCE PIPES ON SHEET 7.
22. EROSION STONE SHALL MEET THE REQUIREMENTS OF SECTION 4130.03 AND 4130.04 OF THE I.D.O.T. STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGE CONSTRUCTION SERIES 2015. REFER TO SHEET 5 FOR ILLUSTRATION OF CONSTRUCTION AND TABULATION OF LOCATIONS.
23. EXISTING PAVEMENT IS APPROXIMATELY 8.5 INCHES HMA. SAW CUTS ARE TO BE MADE AT THE STATIONS INDICATED BY THE ENGINEER.
24. THIS ITEM SHALL INCLUDE PROVIDING, INSTALLING, MAINTAINING AND REMOVING SAFETY CLOSURES ACCORDING TO THE IDOT STANDARD SPECIFICATIONS.
- 25,26. STANDARD ROAD PLAN MI-101 AND MI-103 SHALL BE USED AS A CONSTRUCTION GUIDE. TWO BRACE PANELS ARE ALSO REQUIRED AT EACH NEW ENTRANCE. ITEM INCLUDES ALL MATERIAL AND LABOR TO REMOVE AND INSTALL NEW FENCE IN PROJECT AREA. SEE TABULATION ON SHEET 7. FENCE SHALL BE A FIVE (CLASS 3 COATING, BARB WITH ALTERNATING SERIES OF FENCE POLES (2 STEEL 1 WOOD). CONSTRUCT AS PER STANDARD ROAD PLAN MI-101. WOOD POLES SHALL BE TREATED AT 0.60 RETENSION P.C.A. OF CCA. FENCING SHALL BE PLACED PRIOR TO CONSTRUCTION FROM STATION 106+07.62 TO 126+00 RIGHT OF CENTERLINE.
27. THIS ITEM SHALL INCLUDE FURNISHING, INSTALLING, MAINTAINING, AND REMOVING SIGNING AS PER THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY" AS ADOPTED BY THE DEPARTMENT OF IOWA TRANSPORTATION PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130 AND STANDARD ROAD PLAN TC-252.
28. MOBILIZATION SHALL BE LUMP SUM AND INCLUDE ALL LABOR AND COSTS NEEDED TO MOVE EQUIPMENT TO AND FROM THE PROJECT.
29. RCP TEE SECTIONS SHALL BE AS SPECIFIED ON SHEETS 13 THROUGH 22. BALLAST SHALL BE A 3000 PSI CONCRETE MIXTURE OR EQUIVALENT AND INCIDENTAL TO THIS BID ITEM. CONCRETE DROP INLET PIPE SHALL BE 2000 D CLASS III. TEE SECTION SHALL BE TIED AS PER STANDARD ROAD PLAN DR-121.
- 30,31. SEEDING AND MULCHING SHALL MEET THE REQUIREMENTS SET FORTH IN IDOT 2015 STANDARD SPECIFICATIONS AND ANY APPLICABLE SUPPLEMENTAL SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER ALL AREAS TO BE SEEDED PRIOR TO COMMENCING ANY WORK ON THIS ITEM.
32. THIS ITEM SHALL INCLUDE FURNISHING AND INSTALLING SILT FENCE. ALL PERIMETER SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION AS TABULATED ON SHEET 7 AND AS DIRECTED BY THE ENGINEER.
33. THIS ITEM SHALL INCLUDE FURNISHING AND INSTALLING SILT FENCE DITCH CHECKS AS TABULATED ON SHEET 6.
34. THIS ITEM IS INCLUDED FOR CLEAN-OUT AND REPAIR OF THE SILT FENCE AND SILT FENCE FOR DITCH CHECKS DURING THE GRADING PROJECT.
35. MOBILIZATIONS, EROSION CONTROL
36. MOBILIZATIONS, EMERGENCY EROSION CONTROL

GENERAL NOTES:

THE CONTRACTOR IS TO USE CARE IN WORKING AROUND AND OVER ANY TILE LINES. A UTILITY ONE CALL (1-800-292-8989) WILL BE MADE 14 CALENDAR DAYS PRIOR TO BEGINNING WORK. THE CONTRACTOR WILL NOTIFY THE WOODBURY COUNTY ENGINEER'S OFFICE WITH THE ONE CALL MEETING TIME.

*THE RESIDENCES AT STATION 79+64 DIVISION I & 17+00 DIVISION II SHALL BE ALLOWED ACCESS AT ALL TIMES. TEMPORARY SURFACING MAY BE REQUIRED DUE TO WEATHER CONDITIONS. IF TEMPORARY SURFACING IS REQUIRED IT SHALL COME FROM ITEM 4 AND BE CONSIDERED INCIDENTAL TO ITEM 4.

WOODBURY COUNTY
ENGINEERS OFFICE

DRAWN BY:	CHK'D BY:	DATE:	REVISION:
DESIGNED BY:	MAIN:	APPROVED BY:	DATE:

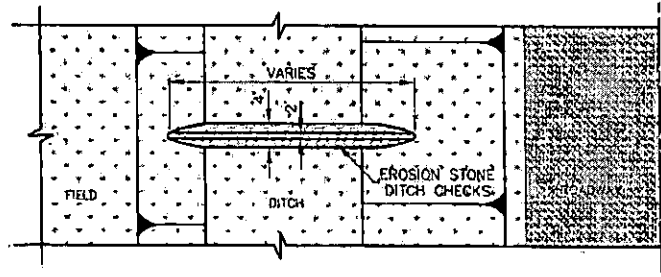
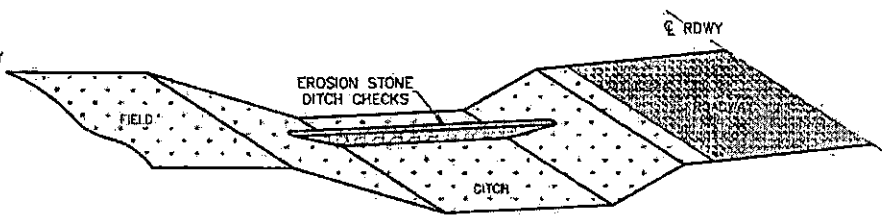
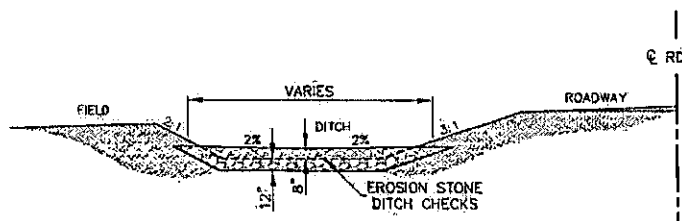
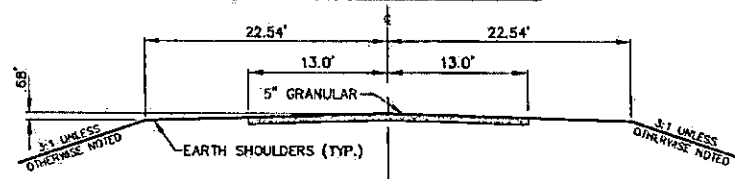
PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP

SHEET DESCRIPTION: ESTIMATE REFERENCE INFORMATION

PROJECT NO.
LFM-0507-73-07

SHEET
4

TYPICAL ROADWAY CROSS SECTION



EROSION STONE DITCH CHECK DETAILS

LOCATION STATION	SIDE		LOCATION STATION	SIDE	
	LT.	RT.		LT.	RT.
DIVISION I 30+00	X		DIVISION I 55+25	X	
DIVISION I 31+75	X		DIVISION I 71+00	X	
DIVISION I 34+00	X		DIVISION I 79+00	X	
DIVISION I 39+00	X		DIVISION I 80+25	X	
DIVISION I 40+75	X		DIVISION I 87+25		X
DIVISION I 42+25	X		DIVISION I 88+75		X
DIVISION I 44+00	X		DIVISION I 89+00	X	
DIVISION I 46+00	X		DIVISION I 96+50	X	
DIVISION I 48+00	X		DIVISION I 120+75		X
DIVISION I 50+25	X		DIVISION I 123+25		X
DIVISION I 52+50	X		DIVISION III 23+50	X	X

DESIGNED BY:	DATE:
DRAWN BY:	REVISION:
CHECKED BY:	
IN CHARGE:	
APPROVED BY:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP
SHEET DESCRIPTION: EROSION STONE DITCH CHECK DETAILS

TABULATION OF SILT FENCES FOR DITCH CHECKS				
LOCATION STATION DIVISION I	LT.	LENGTH	RT.	LENGTH
30+40	X	23'		
30+80	X	20'		
31+20	X	19'		
32+00	X	20'		
32+50	X	22'		
33+00	X	24'		
33+50	X	33'		
34+50	X	25'		
38+40	X	28'		
39+80	X	31'		
40+20	X	31'		
41+00	X	25'		
41+40	X	28'		
41+80	X	30'		
42+80	X	31'		
43+00	X	31'		
43+40	X	31'		
43+80	X	31'		
44+20	X	31'		
44+65	X	31'		
45+10	X	31'		
45+55	X	31'		
48+45	X	31'		
48+90	X	31'		
47+35	X	31'		
47+80	X	31'		
48+25	X	31'		
48+70	X	31'		
49+15	X	31'		
49+60	X	31'		

TABULATION OF SILT FENCES FOR DITCH CHECKS				
LOCATION STATION DIVISION I	LT.	LENGTH	RT.	LENGTH
50+05	X	31'		
50+50	X	29'		
50+95	X	28'		
51+40	X	28'		
51+85	X	28'		
52+30	X	28'		
52+75	X	28'		
54+60	X	26'		
55+80	X	24'		
55+40	X	22'		
57+40	X	24'		
80+63	X	21'		
61+63	X	21'		
63+25	X	22'		
64+00	X	19'		
64+75	X	24'		
67+75	X	27'		
71+45	X	28'		
71+90	X	20'		
72+35	X	18'		
78+15			X	17'
79+25	X	24'		
79+61	X	20'		
79+95			X	34'
80+36			X	29'
80+81	X	20'		
81+31	X	19'		
87+50			X	24'
87+85			X	24'
88+20			X	23'

TABULATION OF SILT FENCES FOR DITCH CHECKS				
LOCATION STATION DIVISION I	LT.	LENGTH	RT.	LENGTH
88+55			X	21'
88+90			X	19'
89+25	X	28'	X	18'
89+60	X	28'	X	18'
89+95	X	28'	X	18'
90+30	X	29'	X	26'
90+65	X	29'		
91+00	X	29'		
91+35	X	24'		
96+00	X	32'		
96+40	X	25'		
96+85	X	18'		
97+35	X	16'	X	30'
97+95	X	16'	X	22'
98+70	X	26'		
109+00			X	18'
110+00	X	33'	X	18'
112+00	X	31'	X	18'
113+00	X	25'	X	18'
115+05	X	18'	X	18'
118+60	X	29'	X	18'
117+35	X	30'	X	18'
118+10			X	18'
118+70			X	18'
119+20			X	18'
119+70			X	18'
120+20			X	18'
121+20			X	18'
121+80			X	18'
122+55			X	18'

TABULATION OF SILT FENCES FOR DITCH CHECKS				
LOCATION STATION DIVISION I	LT.	LENGTH	RT.	LENGTH
133+30	X	20'		
136+00			X	31'
136+50			X	25'
137+00			X	20'
139+55			X	18'
140+15			X	18'
140+55			X	18'
TOTALS		1,948		723
2,671				
LOCATION STATION DIVISION II				
LT.	LENGTH	RT.	LENGTH	
16+10		X	54'	
16+70		X	47'	
TOTALS			111'	111'
LOCATION STATION DIVISION III				
LT.	LENGTH	RT.	LENGTH	
17+65		X	31'	
18+15		X	31'	
18+55		X	31'	
18+95		X	31'	
19+30		X	31'	
19+65		X	31'	
20+00		X	31'	
20+50		X	31'	
22+25	X	32'	X	28'
22+75	X	28'	X	21'
23+50	X	19'	X	20'
TOTALS		79'		317'
395'				

WOODBURY COUNTY
ENGINEERS OFFICE

DATE: _____
 REVISION: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 M.J.N.
 APPROVED BY: _____

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP
 SHEET DESCRIPTION: TABULATIONS SHEET

PROJECT NO.
LFM-(D50)-73-87
 SHEET
6

DATE: _____
 DRAWN BY: _____
 BK: _____
 DESIGNED BY: _____
 MAIN: _____
 APPROVED BY: _____
 DATE: _____

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP
SHEET DESCRIPTION: TABULATIONS SHEET

TABULATION OF SILT FENCES				
LOCATION STATION DIVISION I	LT.	LENGTH	RT.	LENGTH
25+00 to 27+78			X	300'
27+50 to 28+18	X	78'		
28+84 to 33+00			X	434'
29+03 to 30+01	X	109'		
29+13 to 30+00			X	88'
33+38 to 41+00			X	763'
33+57			X	185'
33+86 to 53+00			X	2,216'
33+89 to 53+00			X	1,982'
34+50			X	147'
35+00 to 38+37	X	337'		
35+50			X	113'
36+00 to 41+00	X	510'		
36+50			X	108'
37+50			X	108'
38+50			X	93'
39+50	X	101'		
40+50			X	180'
41+50			X	224'
42+50			X	272'

TABULATION OF SILT FENCES				
LOCATION STATION DIVISION I	LT.	LENGTH	RT.	LENGTH
43+00 to 49+00			X	600'
43+50			X	303'
44+50			X	302'
45+50			X	290'
46+50			X	321'
47+50			X	338'
48+50			X	286'
49+50			X	269'
50+50			X	279'
51+50			X	250'
52+50			X	162'
53+81 to 60+00			X	641'
58+69			X	20'
64+00 to 78+00			X	1,429'
68+50 to 70+50	X	202'		
69+05			X	20'
70+01 to 72+99			X	302'
71+00			X	43'
72+00			X	57'
73+50 to 76+00	X	453'		

TABULATION OF SILT FENCES				
LOCATION STATION DIVISION I	LT.	LENGTH	RT.	LENGTH
74+16			X	20'
80+47 to 88+78	X	648'		
83+00 to 88+50			X	552'
83+41			X	20'
90+77 to 98+75			X	825'
92+00 to 95+50	X	355'		
93+00			X	20'
98+50 to 108+00			X	1,012'
99+40 to 108+85	X	1,234'		
101+59			X	20'
117+00 to 124+00	X	793'		
117+50 to 131+83	X	1,474'		
124+16 to 131+80			X	768'
133+03 to 135+00			X	201'
134+00 to 137+58	X	380'		
137+37 to 140+80	X	501'		
ROADWAY PIPES 4 50' LENGTHS EACH			X	800'
TOTALS		7,054'		17,188'

TABULATION OF SILT FENCES				
LOCATION STATION DIVISION II	LT.	LENGTH	RT.	LENGTH
10+50 to 13+73	X	324'		
10+50 to 13+98			X	357'
11+00 to 13+82			X	268'
14+96 to 20+50	X	572'		
TOTALS		896'		623'

LOCATION STATION DIVISION III	LT.	LENGTH	RT.	LENGTH
13+25 to 16+13			X	292'
14+00 to 15+87	X	198'		
17+40 to 23+92	X	718'		
TOTALS		916'		292'

TABULATION OF DRIVEWAY & FIELD ENTRANCE PIPES ALL PIPES SHALL BE 12 GAUGE 24" CMP		
STATION DIV. I	SIDE	LENGTH
53+33.50	LT	84'
67+00	LT	52'
80+00	LT	56'
87+00	RT	52'
90+82	RT	52'
97+00	RT	52'
114+00	LT	52'
124+00	LT	52'
124+00	RT	52'
STATION DIV. II	SIDE	LENGTH
17+08	RT	34'

TABULATION OF FENCING				
Location Station to Station		Side	Length (Ln. Ft.)	Remarks
DIV I 29+18	33+07	RIGHT	400	10 BRACE PANELS
DIV I 33+49	53+32	RIGHT	2,133	14 BRACE PANELS
DIV I 33+50	53+05	RIGHT	1,982	8 BRACE PANELS
DIV I 53+82	67+56	RIGHT	1,393	8 BRACE PANELS
DIV I 53+90	66+53	LEFT	1,308	10 BRACE PANELS
DIV I 65+83	78+88	LEFT	1,298	8 BRACE PANELS
DIV I 87+85	75+89	RIGHT	804	8 BRACE PANELS
DIV I 78+64	84+71	RIGHT	542	10 BRACE PANELS
DIV I 80+16	93+21	LEFT	1,305	8 BRACE PANELS
DIV I 84+88	90+48	RIGHT	558	8 BRACE PANELS
DIV I 90+76	100+70	RIGHT	1,133	10 BRACE PANELS
DIV I 93+21	105+73	LEFT	1,287	10 BRACE PANELS
DIV I 100+70	108+07	RIGHT	594	10 BRACE PANELS
DIV I 102+58	114+55	LEFT	1,234	10 BRACE PANELS
DIV I 108+07	114+85	RIGHT	868	8 BRACE PANELS
DIV I 114+88	124+78	LEFT	982	8 BRACE PANELS
DIV I 115+28	120+74	RIGHT	848	8 BRACE PANELS
DIV I 116+34	119+31	LEFT	493	8 BRACE PANELS
DIV I 122+38	125+72	RIGHT	337	8 BRACE PANELS
DIV I 125+64	132+15	LEFT	713	8 BRACE PANELS
DIV I 125+71	132+12	RIGHT	710	10 BRACE PANELS
DIV I 132+88	140+89	RIGHT	785	5 BRACE PANELS
DIV I 137+42	140+75	LEFT	337	5 BRACE PANELS
TOTAL			21,770	200 BRACE PANELS

TABULATION OF FENCING				
Location Station to Station		Side	Length (Ln. Ft.)	Remarks
DIV II 18+07	20+81	LEFT	274	5 BRACE PANELS
TOTAL			274	5 BRACE PANELS

DIV III 13+25	16+37	RIGHT	297	8 BRACE PANELS
DIV III 14+07	18+45	LEFT	239	8 BRACE PANELS
DIV III 17+28	23+89	LEFT	664	5 BRACE PANELS
DIV III 17+48	23+80	RIGHT	877	11 BRACE PANELS
TOTAL			2,077	32 BRACE PANELS

* NOT A BID ITEM

DRAINAGE STRUCTURE BY CONTRACTOR INFORMATION

Location	Type	Size	Kind of Pipe	New Construction	Bedding Class	Manhole Cover	Camber DR102	CONNECTED PIPE JOINT DR-121	Elbows* DR 141	Toe-Section	CONCRETE BALLAST	Flow Line Elevation	Skew Ahead Degrees	Class 20
STATION	DR-613	INCH		LF.		FT.	FT.		NUMBER		C.Y.			C.Y.
58+69.15	DR-613	24	RCP	*98	B	11	0.18	TYPE 2	2	24" ON 36"	0.63	INLET 1229.79 OUTLET 1216.16	0	295
69+30.53	DR-613	48	RCP	*114	B	12	0.20	TYPE 2	1	48" ON 72"	3.14	INLET 1231.61 OUTLET 1215.51	21°20' LEFT	467
74+15.85	DR-613	60	RCP	*114	B	14	0.25	TYPE 2	2	60" ON 84"	3.85	INLET 1236.16 OUTLET 1224.97	0	610
83+55.25	DR-613	30	RCP	*130	B	15	0.25	TYPE 2	2	30" ON 48"	1.22	INLET 1271.85 OUTLET 1257.83	9°11' LEFT	253
93+00	DR-613	24	RCP	*158	B	21	0.42	TYPE 2	2	24" ON 36"	0.63	INLET 1309.05 OUTLET 1288.49	0	598
101+58.66	DR-601	36	RCP	*295	B	42	0.58	TYPE 2	2	36" ON 54"	1.28	INLET 1312.65 OUTLET 1291.66	0	862
126+68.20	DR-613	48	RCP	254	B	35	0.58	TYPE 2	0	NONE	NONE	INLET 1316.69 OUTLET 1305.77	0	307
133+12.17	DR-613	24	RCP	*84	B	8	0.10	TYPE 2	1	NONE	NONE	INLET 1350.60 OUTLET 1343.48	0	20
17+53.48 DIV II	DR-613	48	RCP	*114	B	13	0.22	TYPE 2	2	48" ON 72"	3.14	INLET 1128.55 OUTLET 1115.41	13°56' RIGHT	762
16+00.01 DIV III	DR-631	36	CMP	*120	B	14	0		1	NONE	NONE	INLET 1341.96 OUTLET 1330.00	10° RIGHT	240

* LENGTH INCLUDES ELBOWS

ROADWAY AND ENTRANCE PIPE REMOVALS

DIV.	STATION	RDWY.	ENT.	SIZE & TYPE	LT.	RT.
I	29+45	X		24"x46" CMP		
I	33+37		X	24"x20" CMP		X
I	58+69	X		30"x48" CMP		
I	66+80		X	24"x34" CMP	X	
I	69+52	X		48"x50" CMP		
I	74+16	X		60"x48" CMP		
I	83+64	X		30"x36" CMP		
I	84+79		X	18"x26" CMP		X
I	93+15	X		24"x48" CMP		
I	99+41		X	18"x26" CMP		X
I	101+59	X		36"x60" CMP		
I	124+91		X	24"x34" CMP	X	
I	127+13	X		36"x50" CMP		
I	129+73	X		48"x54" CMP		
I	132+79	X		24"x36" CMP		
II	17+54	X		48"x78" RCP *		
III	16+10	X		36"x78" CMP		
III	17+48		X	24"x22" CMP		X

* INCLUDES 5'x5' CONCRETE DROP INTAKE

TRASH RACK LOCATIONS

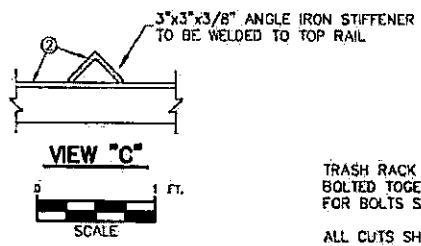
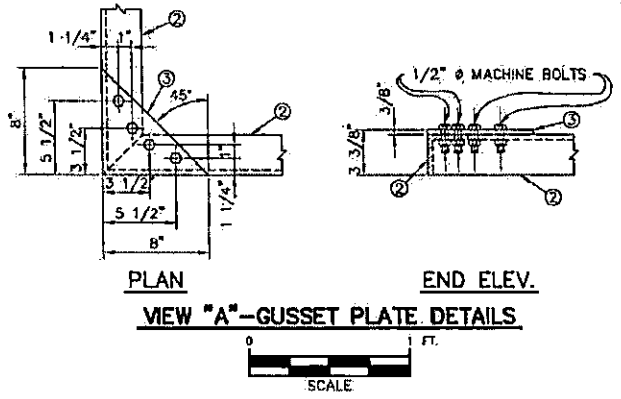
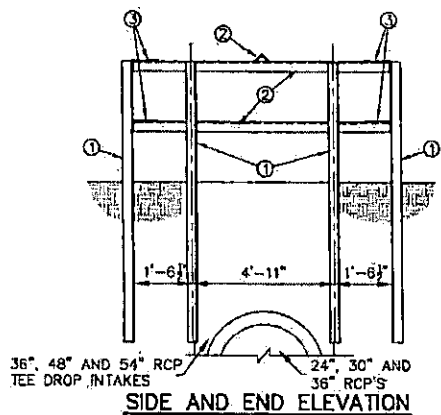
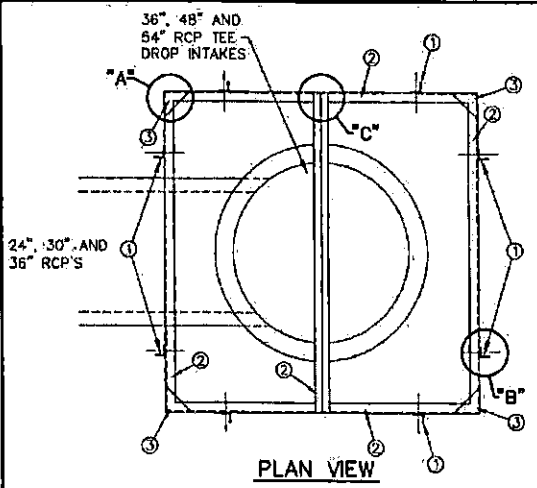
DIV.	STATION	TRASH RACK SHEET 9	TRASH RACK SHEET 10	CULVERT DETAIL SHEET
I	58+69.15	X		13
I	69+30.53		X	14
I	74+15.85		X	15
I	83+55.25	X		16
I	93+00	X		17
I	101+58.66	X		18
II	17+53.48		X	21

WOODBURY COUNTY
ENGINEERS OFFICE

DRAWN BY: _____ DATE: _____
 DESIGNED BY: _____
 M.J.N.
 APPROVED BY: _____
 DATE: _____

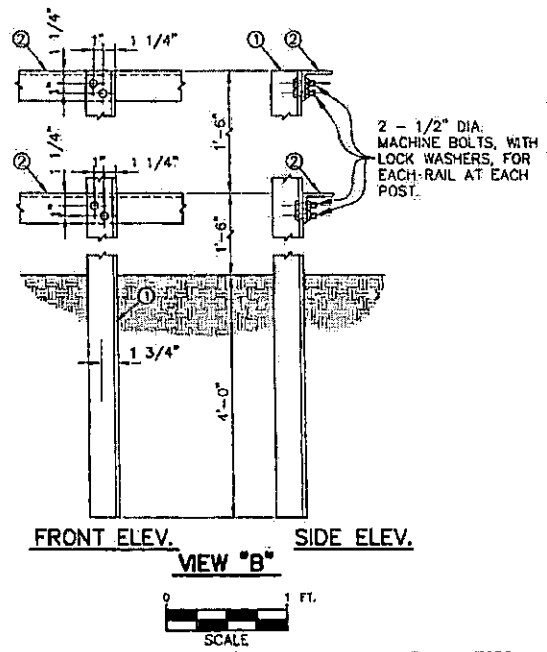
PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
 MILLER TOWNSHIP
 SHEET DESCRIPTION: TABULATION SHEET

PROJECT NO.
 LFM-(D50)-72-97
 SHEET
 8



CONSTRUCTION NOTES
 TRASH RACK TO BE FABRICATED OF 3"x3"x3/8" STEEL ANGLES BOLTED TOGETHER WITH 1/2" Ø MACHINE BOLTS. ALL HOLES FOR BOLTS SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
 ALL CUTS SHALL BE SAW CUTS.

BILL OF MATERIALS FOR 4 TRASH RACKS			
MARK	QUANT	ITEM	LENGTH
1	32	3"x3"x3/8" ANGLE IRON	7'-0"
2	36	3"x3"x3/8" ANGLE IRON	8'-0"
3	32	Δ8"x8"x3/8" GUSSET PLATE	-
-	256	1/2" Ø MACH. BOLTS W/LOCK WASHERS	1 3/4"



WOODBURY COUNTY ENGINEERS OFFICE

DATE: _____

DESIGNED BY: _____

APPROVED BY: _____

PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP

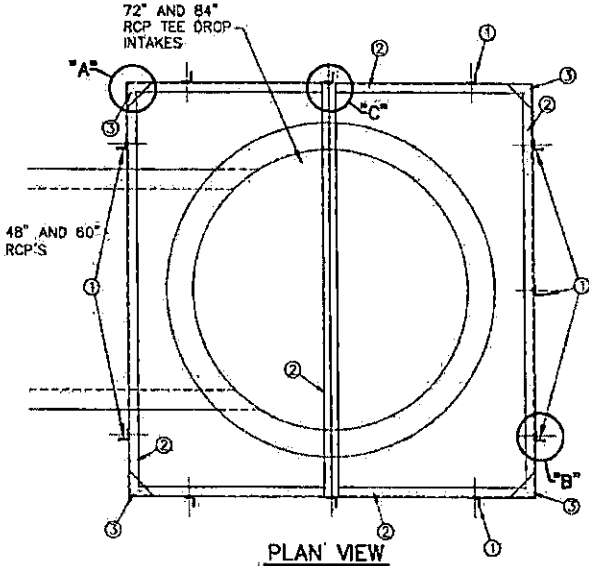
SHEET DESCRIPTION: TRASH RACK DETAILS

PROJECT NO. LFM(D50)-73-97

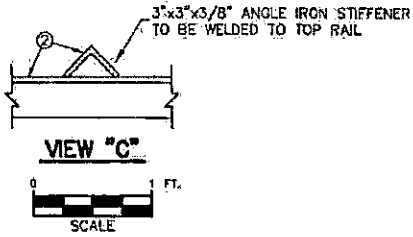
SHEET 9

DATE	REVISION

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP
SHEET DESCRIPTION: TRASH RACK DETAILS

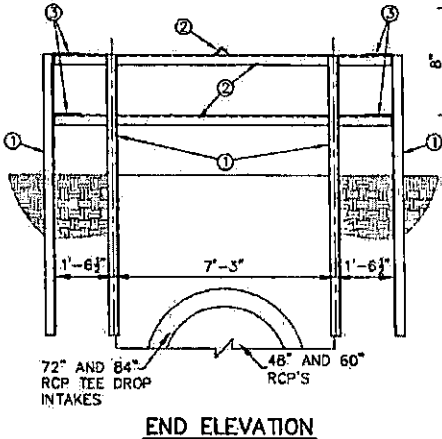


PLAN VIEW

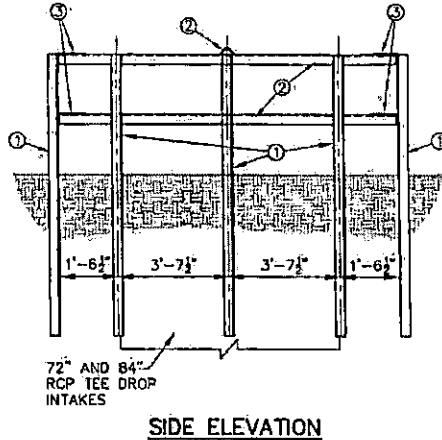


VIEW "C"

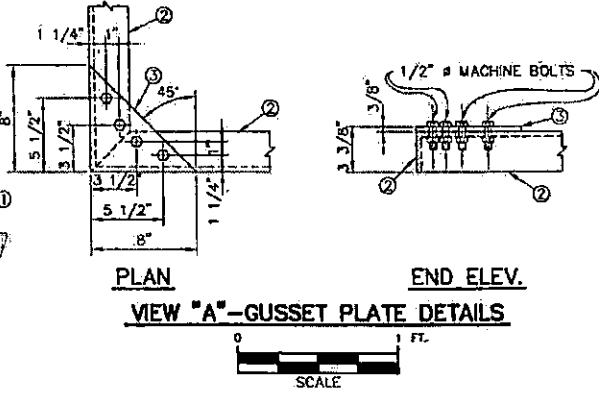
BILL OF MATERIALS FOR 3 TRASH RACKS			
MARK	QUANT	ITEM	LENGTH
1	33	3"x3"x3/8" ANGLE IRON	7'-0"
2	27	3"x3"x3/8" ANGLE IRON	10'-4"
3	24	68"x8"x3/8" GUSSET PLATE	-
-	228	1/2" Ø MACH. BOLTS W/LOCK WASHERS.	1 3/4"



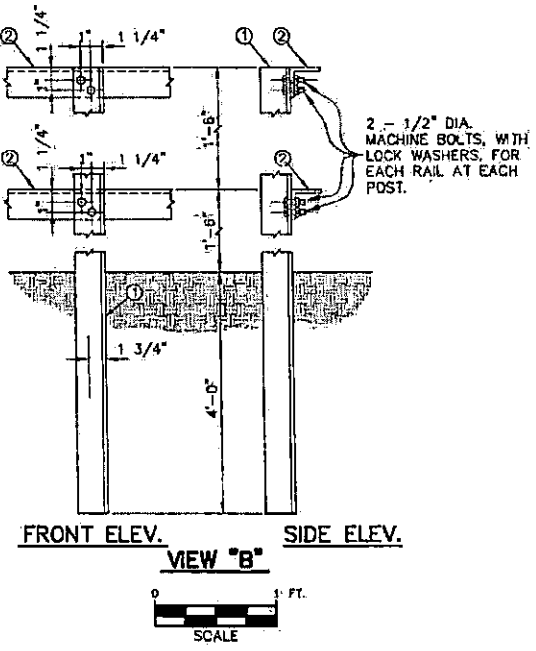
END ELEVATION



SIDE ELEVATION



PLAN **END ELEV.**
VIEW "A" - GUSSET PLATE DETAILS



FRONT ELEV. **SIDE ELEV.**
VIEW "B"

CONSTRUCTION NOTES
TRASH RACK TO BE FABRICATED OF 3"x3"x3/8" STEEL ANGLES BOLTED TOGETHER WITH 1/2" Ø MACHINE BOLTS. ALL HOLES FOR BOLTS SHALL BE 1/16" LARGER THAN BOLT DIAMETER.
ALL CUTS SHALL BE SAW CUTS.

POLLUTION PREVENTION PLAN

This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) Individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).

This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed per plan revisions or by contract modification, will be readily available for review.

All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The prime contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.

I. ROLES AND RESPONSIBILITIES

A. Designer:

1. Prepares Base PPP included in the project plan.
2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.
3. Is signature authority on the Base PPP.

B. Contractor:

1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.
3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.
4. Installs and maintains appropriate controls. This work may be subcontracted.
5. Supervises and implements good housekeeping practices.
6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.
7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.

C. Subcontractors:

1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if responsible for sediment or erosion controls or involved in land disturbing activities. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.
2. Implement good housekeeping practices.

D. Project Engineer:

1. Is Project Storm Water Manager.
2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.
3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.
4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.
5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements; and to order or recommend such other actions as necessary to meet storm water requirements.
6. Is familiar with the Project PPP and storm water site map.
7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.
8. Is signature authority on Notice of Discontinuation.

E. Inspector:

1. Updates PPP whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.
2. Maintains an up-to-date record that identifies contractors and subcontractors as co-permittees.
3. Makes these plans available to the DNR upon their request.
4. Conducts joint required inspections of the site with the contractor/subcontractor.
5. Completes an inspection report after each inspection.
6. Is signature authority on storm water inspection reports.

II. PROJECT SITE DESCRIPTION

- A. This Pollution Prevention Plan (PPP) is for grading construction 1 locations, 250th st. from 1000' west of Morgan Trail to Mason Ave. including the intersection of Morgan Trail and Mason Ave.
- B. This PPP covers approximately 25 acres being disturbed. The portion of the PPP covered by this contract has 25 acres disturbed.
- C. The PPP is located in an area of one Soil Association Very Deep Loess (Manona-Ida-Napier Soils). The estimated weighted average runoff coefficient number for this PPP after completion will be 66.

POLLUTION PREVENTION PLAN

D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:

1. Drainage Patterns - Plan and Profile sheets and Situation plans.
2. Proposed Slopes - Cross Sections.
3. Areas of Soil Disturbance - Construction limits shown on Plan and Profile sheets.
4. Location of Structural Controls - Tabulations in Sheets 5 and 6.
5. Locations of Non-structural Controls - Tabulations in Sheets 5 and 6.
6. Locations of Stabilization Practices - Generally within construction limits shown on Plan and Profile sheets.
7. Surface Waters (including wetlands) - Project Location Map and Plan and Profile sheets.
8. Locations where Storm Water is Discharged - Plan and Profile sheets.

E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries.

F. Runoff from this work will flow into the Little Sioux River.

III. CONTROLS

- A. The contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.
- B. Preserve vegetation in areas not needed for construction.
- C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries or by contract modification. Additional erosion and sediment control items may be required as determined by the Inspector and/or contractor during storm water monitoring inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.

1. EROSION AND SEDIMENT CONTROLS

a. Stabilization Practices

- 1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.
- 2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:
 - a) Permanently ceased on any portion of the site, or
 - b) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.
- 3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.
- 4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities Sheet 3 and Estimate Reference Information Sheet 4. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Sheet 1.
- 5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.
- 6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities Sheet 3 and Estimate Reference Information Sheet 4. Additional information may be found in Tabulations on sheets 5, 6 and 7 or is referenced in Section 2105 of Standard Specifications.

b. Structural Practices

- 1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.
- 2) Structural practices to be used for this project are located in the Estimated Project Quantities Sheet 3 and Estimate Reference Information Sheet 4, as well as all other item specific tabulations. Typical drawings detailing construction of the devices to be used on this project can be found referenced in the Standard Road Plans Tabulation Sheet 1.

c. Storm Water Management

- 1) Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities Sheet 3 and Estimate Reference Information Sheet 4, as well as all other item specific tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation on Sheet 1. The installation of these devices may be subject to Section 404 of the Clean Water Act.

WOODBURY COUNTY
ENGINEERS OFFICE

DESIGNED BY:	DATE:
DRAWN BY:	REVISION:
CHECKED BY:	
DESIGNED BY:	
APPROVED BY:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP

SHEET DESCRIPTION: POLLUTION PREVENTION PLAN

PROJECT NO.
LPM-(D50)-73-97

SHEET
11

2. OTHER CONTROLS:

- a. Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.
 - 1) Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.
 - 2) Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.
 - 3) Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.
 - 4) Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 484 permit.
 - 5) Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean-up spills and prevent material discharges to the storm drain system and waters of the state.
 - 6) Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.
 - 7) Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.
 - 8) Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
 - 9) Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.
 - 10) Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.

3. APPROVED STATE OR LOCAL PLANS

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

IV. MAINTENANCE PROCEDURES

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

V. INSPECTION REQUIREMENTS

- A. Inspections shall be made jointly by the Contractor and the Contracting Authority at least once every seven calendar days. Storm water monitoring inspections will include:
 - 1. Date of the inspection.
 - 2. Summary of the scope of the inspection.
 - 3. Name and qualifications of the personnel making the inspection.
 - 5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
 - 6. Major observations related to the implementation of the PPP.
 - 7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.
- B. Include storm water monitoring inspection reports in the Amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

VI. NON-STORM WATER DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

Silts, sediment, and other forms of pollution may be transported onto Highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

VIII. DEFINITIONS

- A. Base PPP - Initial Pollution Prevention Plan.
- B. Amended PPP - May include Plan Revisions or Contract Modifications for new items, storm water monitoring inspection reports, and fieldbook entries made by the Inspector.
- C. IDR - Inspector's Daily Report - this contains the Inspector's daily diary and bid item postings.
- D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
- E. Signature Authority - Representative authorized to sign various storm water documents.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

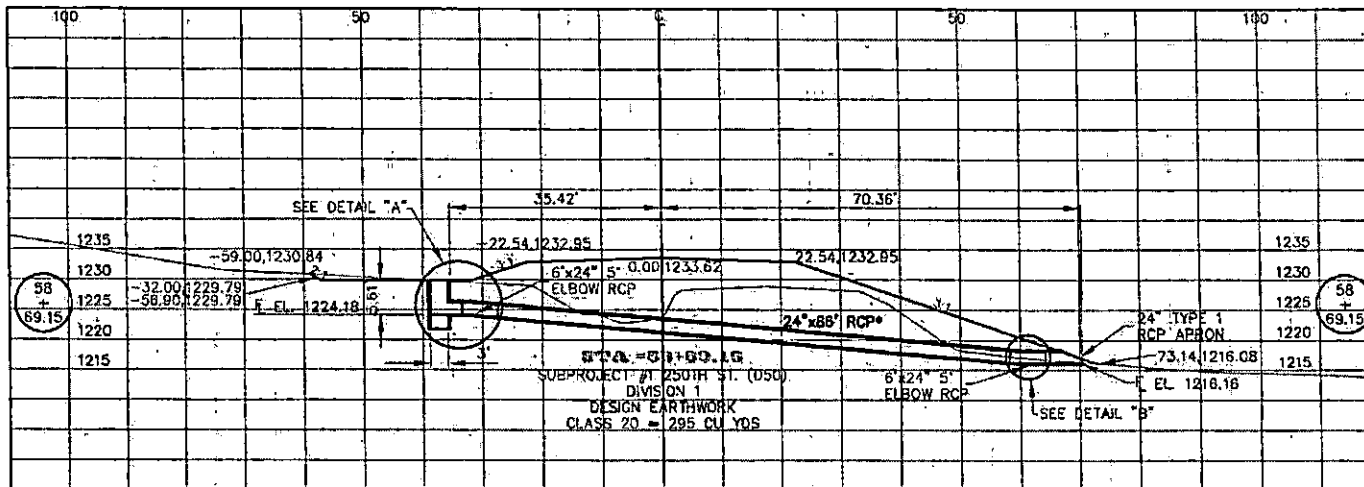
Signature _____

Printed or Typed Name _____

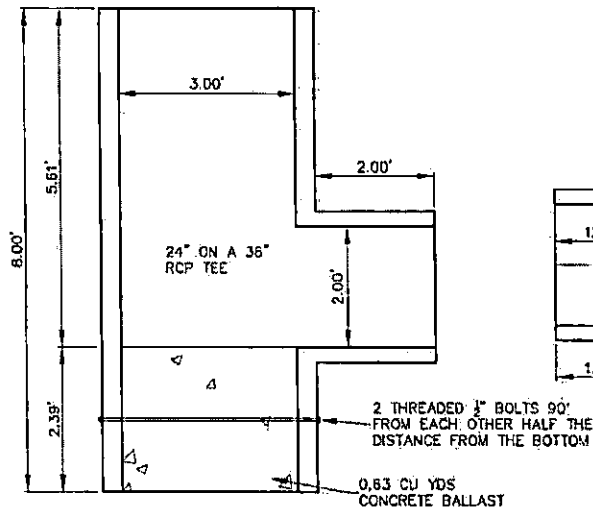
Signature Mark J. Nahwan

Printed or Typed Name _____

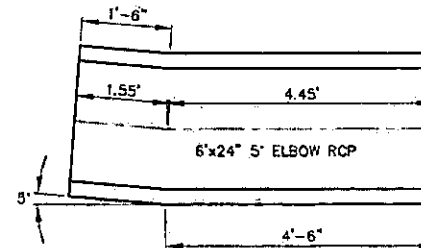
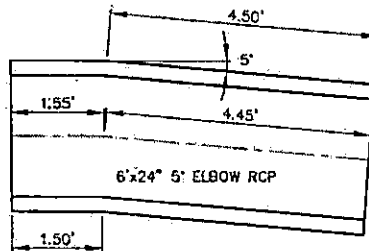
WOODBURY COUNTY ENGINEERS OFFICE	
DATE: _____ REVISION: _____ DRAWN BY: _____ CHECKED BY: _____ PLANNED BY: _____ APPROVED BY: _____	DATE: _____ REVISION: _____
PROJECT DESCRIPTION: GRADING 260TH STREET (D&S) MILLER TOWNSHIP	
SHEET DESCRIPTION: POLLUTION PREVENTION PLAN	
PROJECT NO. _____	
SHEET 12	



* LENGTH DOES NOT INCLUDE ELBOWS



DETAIL "A"



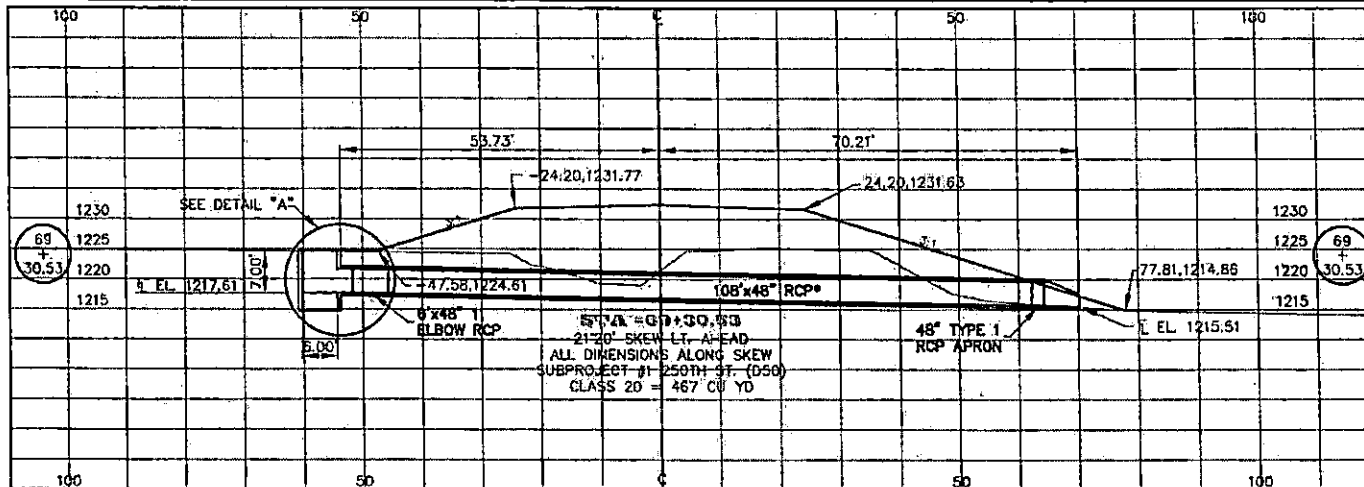
DETAIL "B"

WOODBURY COUNTY
ENGINEERS OFFICE

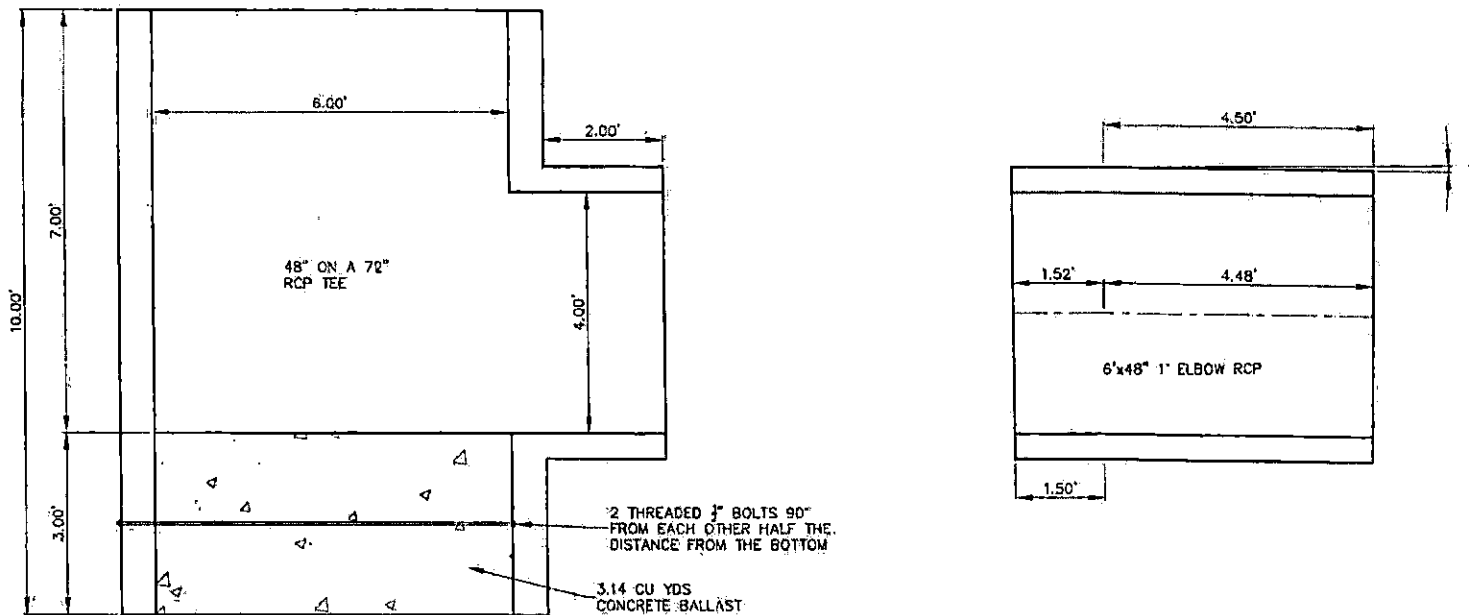
DATE	
REVISION	
APPROVED BY:	
DESIGNED BY:	
DRAWN BY:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP
SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION I

PROJECT NO.
LFM(D50)-73-87
SHEET
13



* LENGTH DOES NOT INCLUDE ELBOWS



DETAIL "A"

WOODBURY COUNTY
ENGINEERS OFFICE

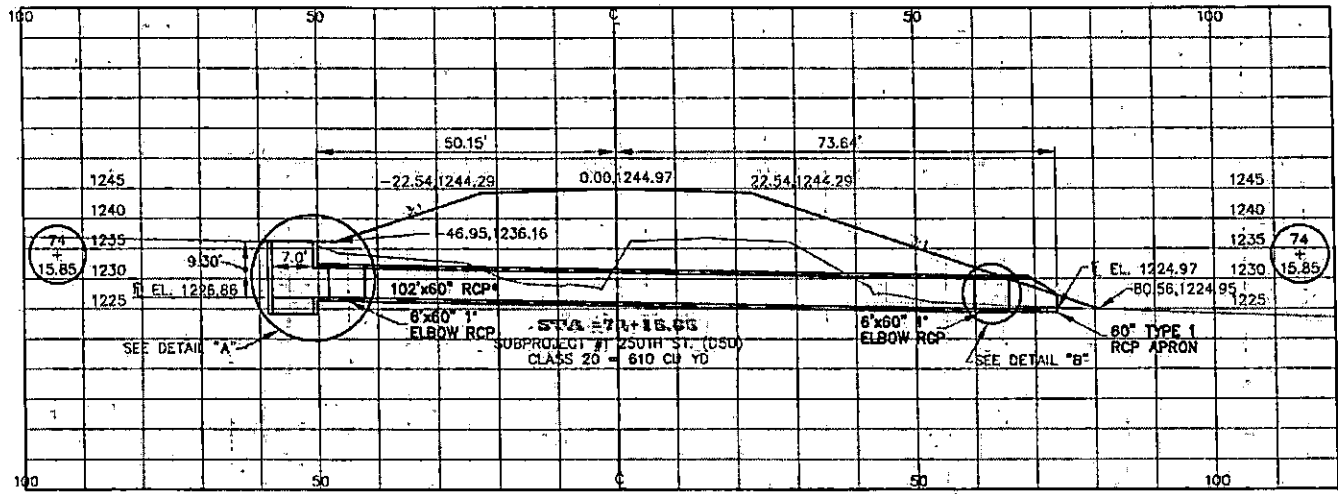
DATE	REVISION

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP

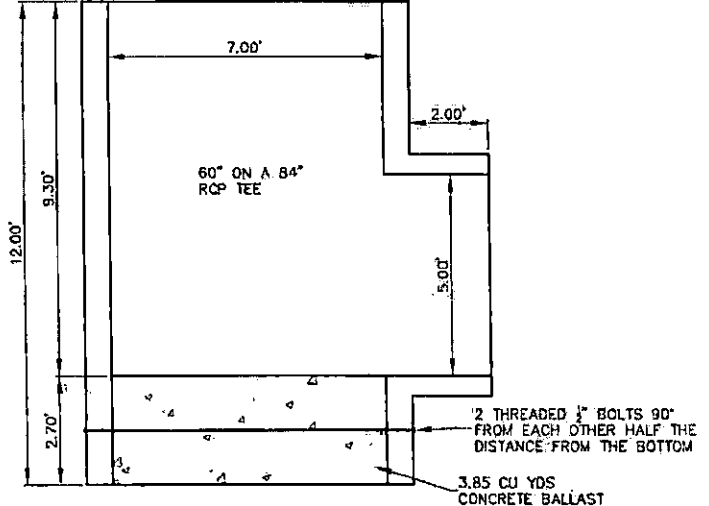
SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION I

PROJECT NO.
LFM-(050)-73-97

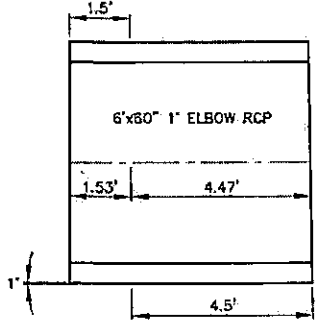
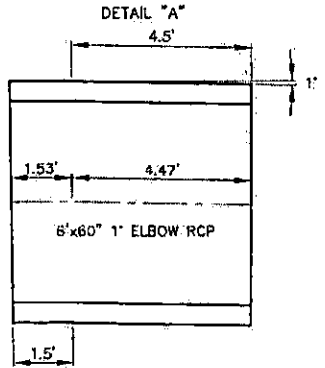
SHEET
14



* LENGTH DOES NOT INCLUDE ELBOWS



DETAIL "A"



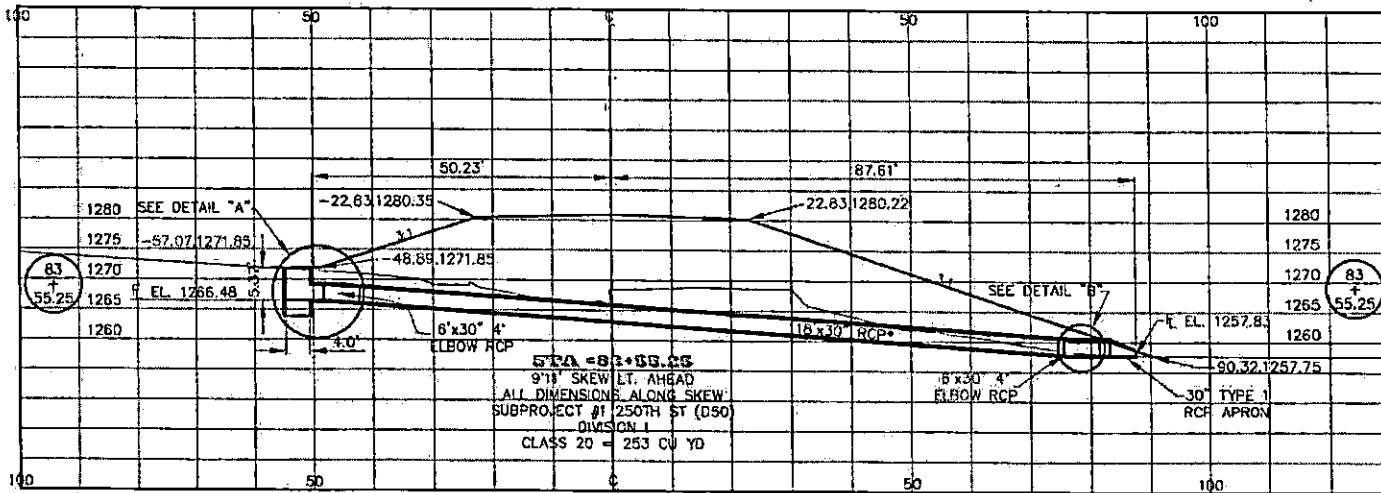
DETAIL "B"

WOODBURY COUNTY
ENGINEERS OFFICE

DATE	REVISION

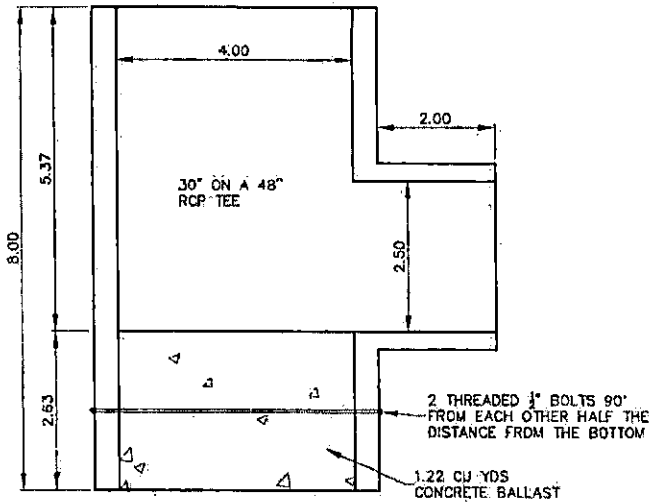
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MILLER TOWNSHIP
SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION I

PROJECT NO.
LFM-(D50)-73-97
SHEET
15

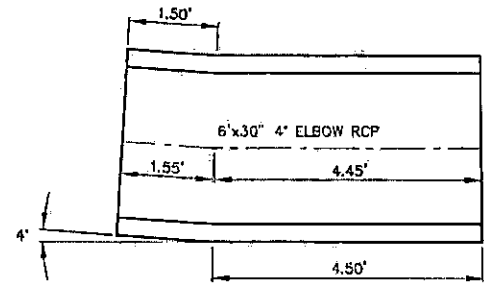
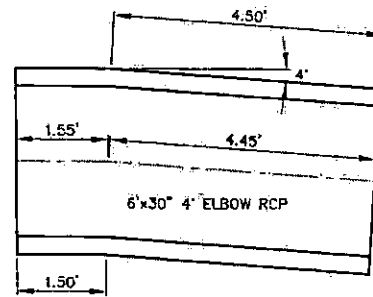


* LENGTH DOES NOT INCLUDE ELBOWS

STA = 83+09.25
 9' SKEW LT. AHEAD
 ALL DIMENSIONS ALONG SKEW
 SUBPROJECT #1 250TH ST (D50)
 DIVISION 1
 CLASS 20 = 253 CU YD



DETAIL "A"



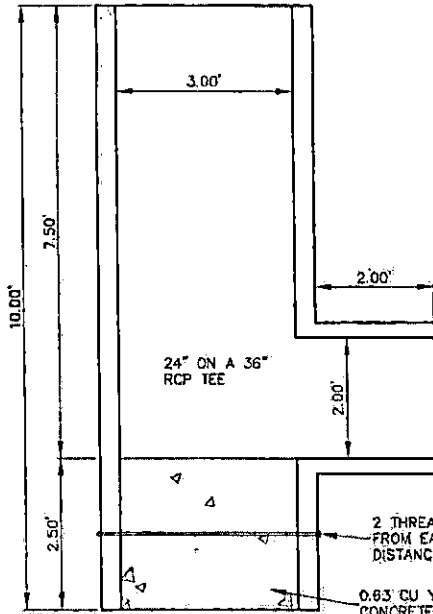
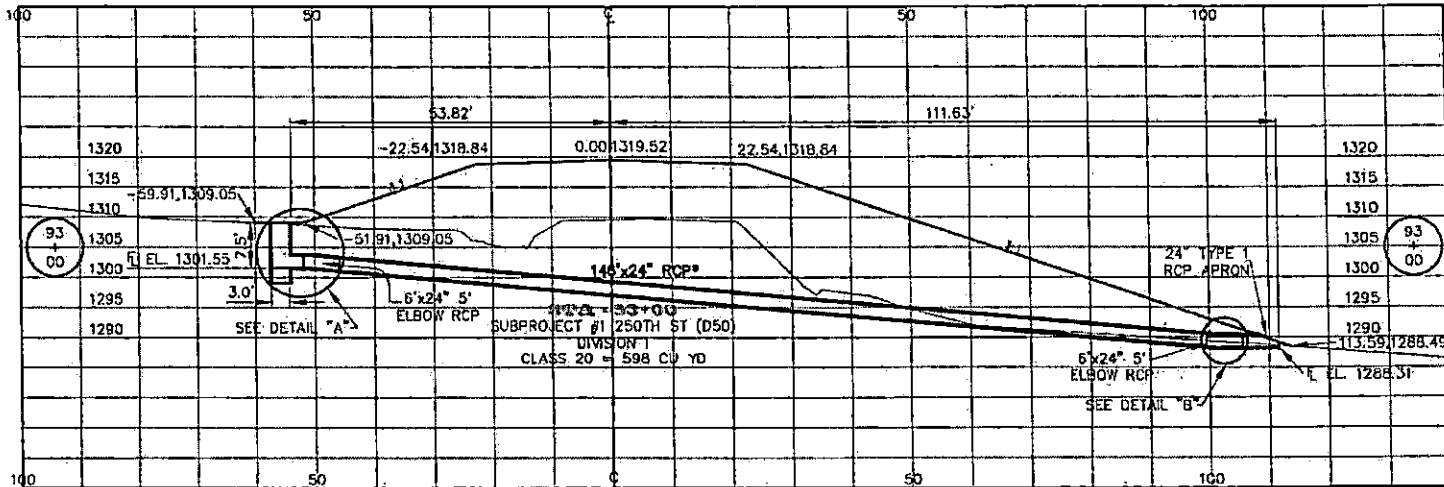
DETAIL "B"

WOODBURY COUNTY
ENGINEERS OFFICE

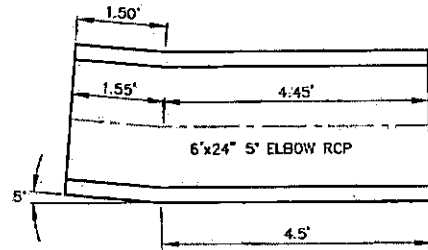
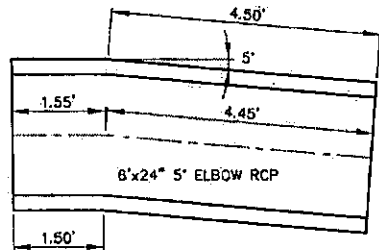
DESIGNED BY:	DATE:
DRAWN BY:	REVISION:
CHECKED BY:	
APPROVED BY:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
 MILLER TOWNSHIP
 SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION 1

PROJECT NO.
 LFM-(D50)-73-97
 SHEET
 16



DETAIL "A"



DETAIL "B"

WOODBURY COUNTY
ENGINEERS OFFICE

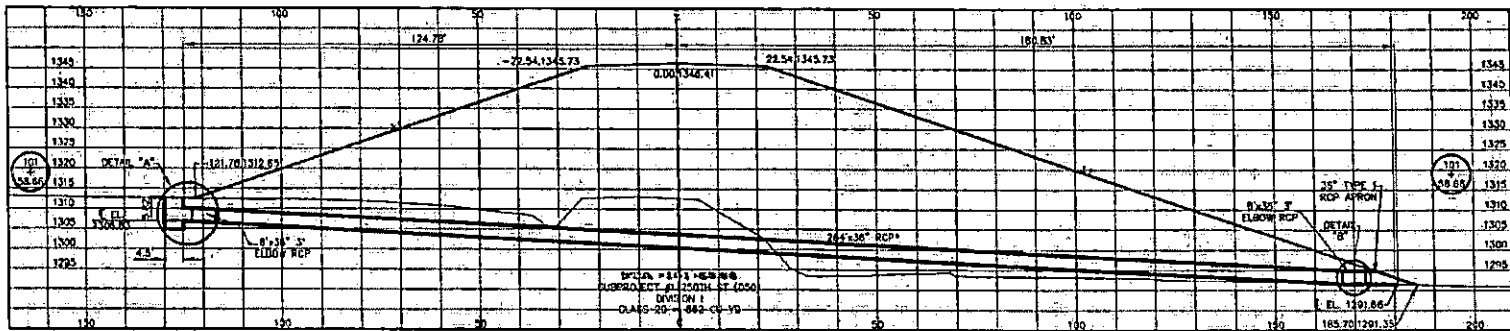
DESIGNED BY:	DATE:
DRAWN BY:	REVISION:
ENGINEER BY:	
IN CHARGE BY:	
APPROVED BY:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP

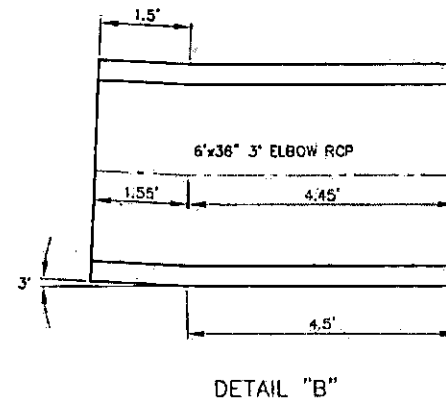
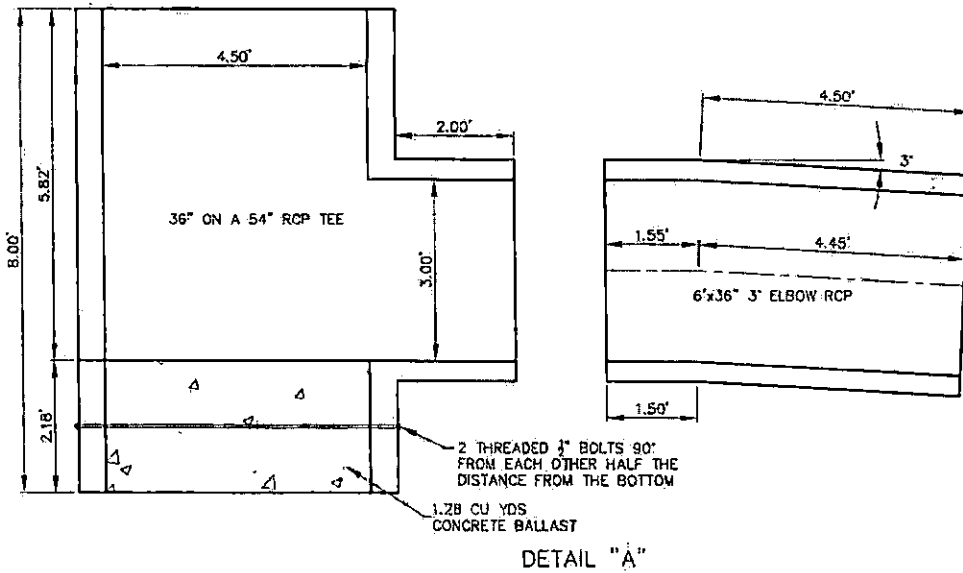
SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION 1

PROJECT NO.
LFM-D50H-73-97

SHEET
17



* LENGTH DOES NOT INCLUDE ELBOWS



WOODBURY COUNTY
ENGINEERS OFFICE

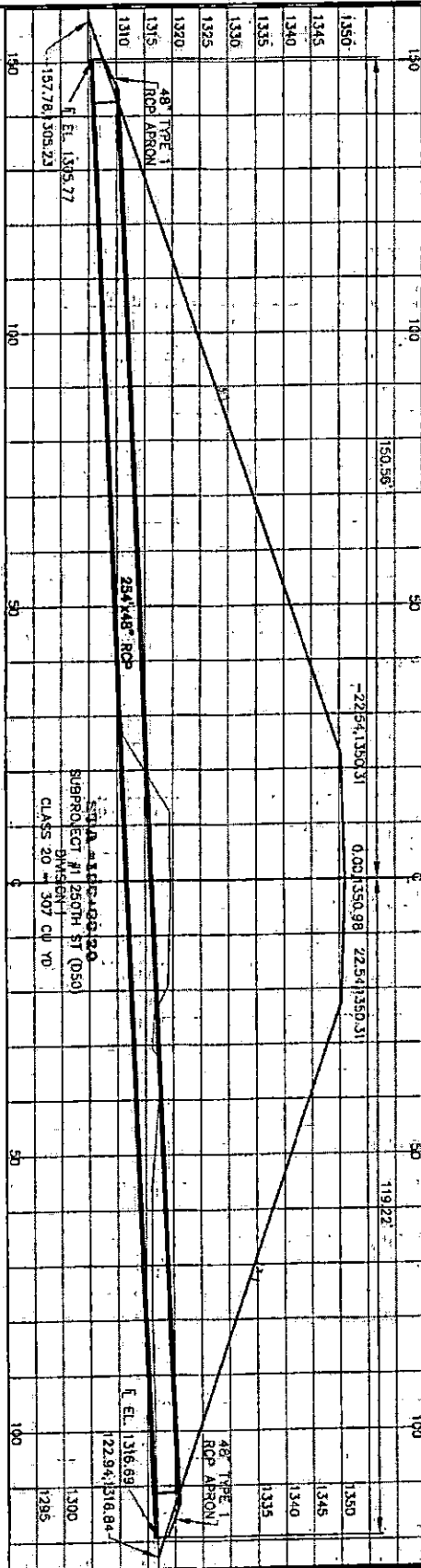
DATE	
REVISION	
APPROVED BY:	
DESIGNED BY:	
DRAWN BY:	
CHECKED BY:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D60)
MILLER TOWNSHIP

SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION I

PROJECT NO.
LFM (D60)-73-97

SHEET
18

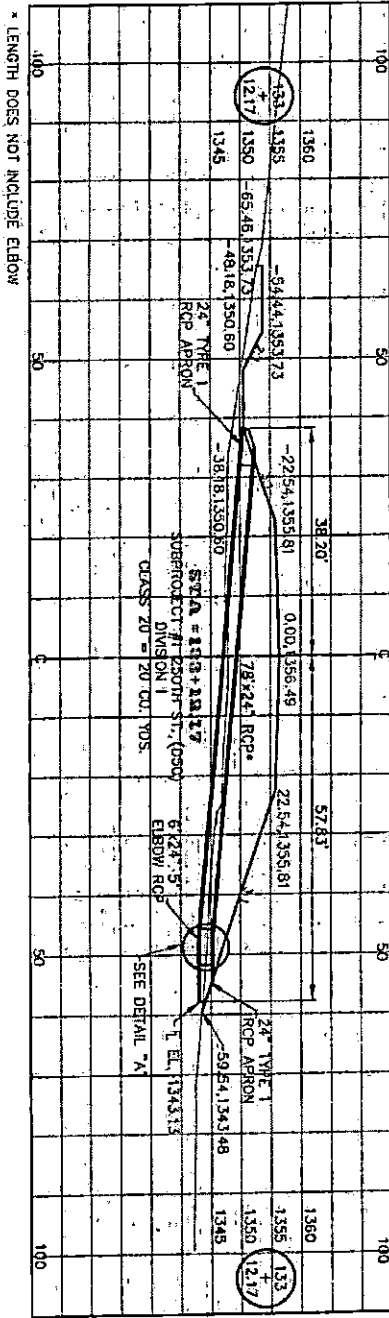


PROJECT NO.
LRA-050-7397
SHEET
19

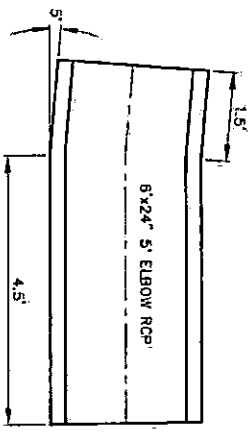
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MILLER TOWNSHIP
SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION. I

DSB	DATE
DRAWN BY:	
BK	
DESIGNED BY:	
MUN	
APPROVED BY:	
DATE	REVISION

WOODBURY COUNTY
ENGINEERS OFFICE

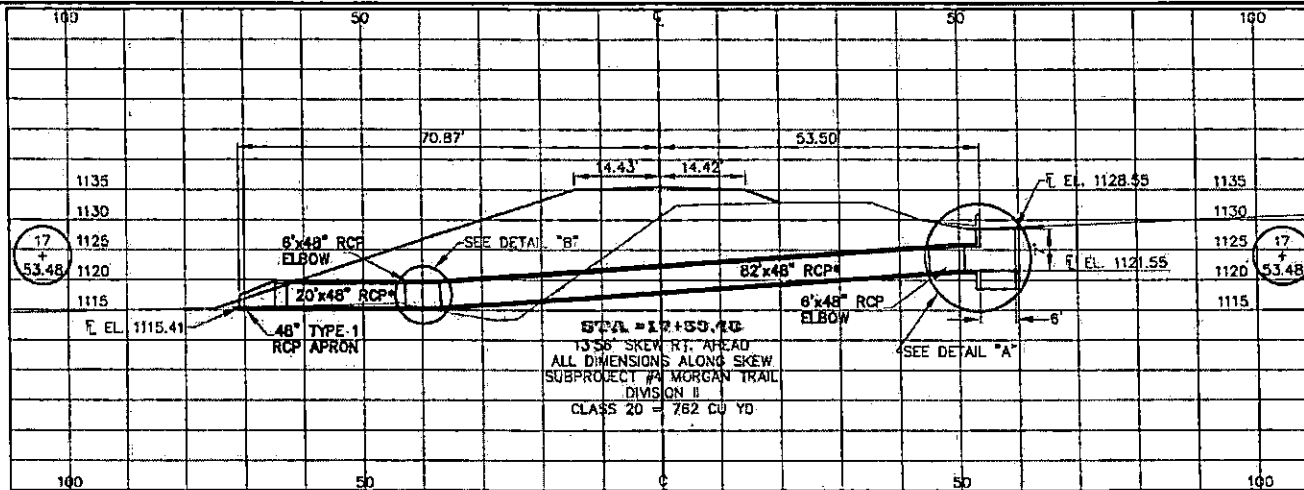


* LENGTH DOES NOT INCLUDE ELBOW

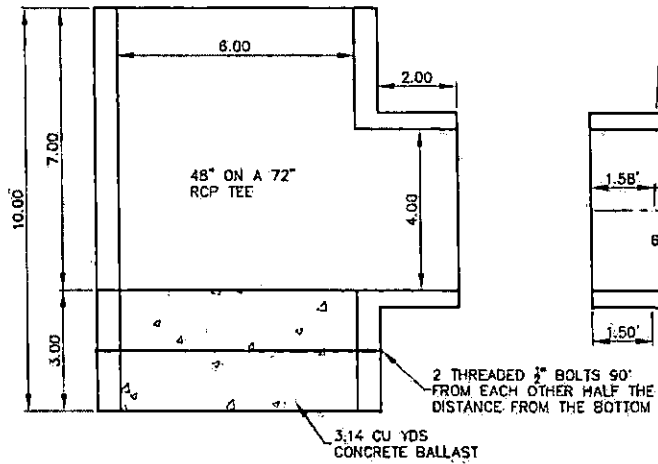


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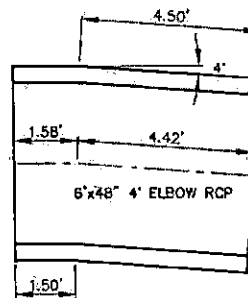
PROJECT NO. LHM40507-2397 SHEET 20	PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP	WOODBURY COUNTY ENGINEERS OFFICE
	SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION 1	
	DRAWN BY: _____ BK	
	DESIGNED BY: _____ MAJN	
	APPROVED BY: _____ DATE: _____ REVISION: _____ DATE: _____	



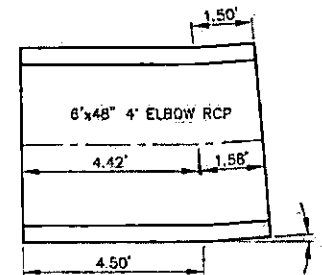
* LENGTH DOES NOT INCLUDE ELBOWS



DETAIL "A"



DETAIL "B"

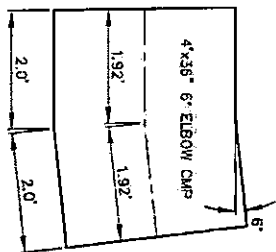
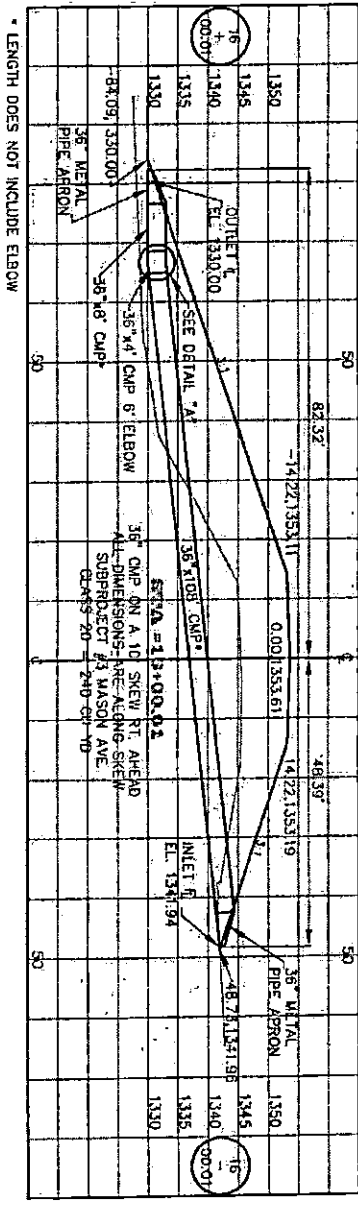


WOODBURY COUNTY
ENGINEERS OFFICE

DATE: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 M.A.N.
 APPROVED BY: _____
 DATE: _____

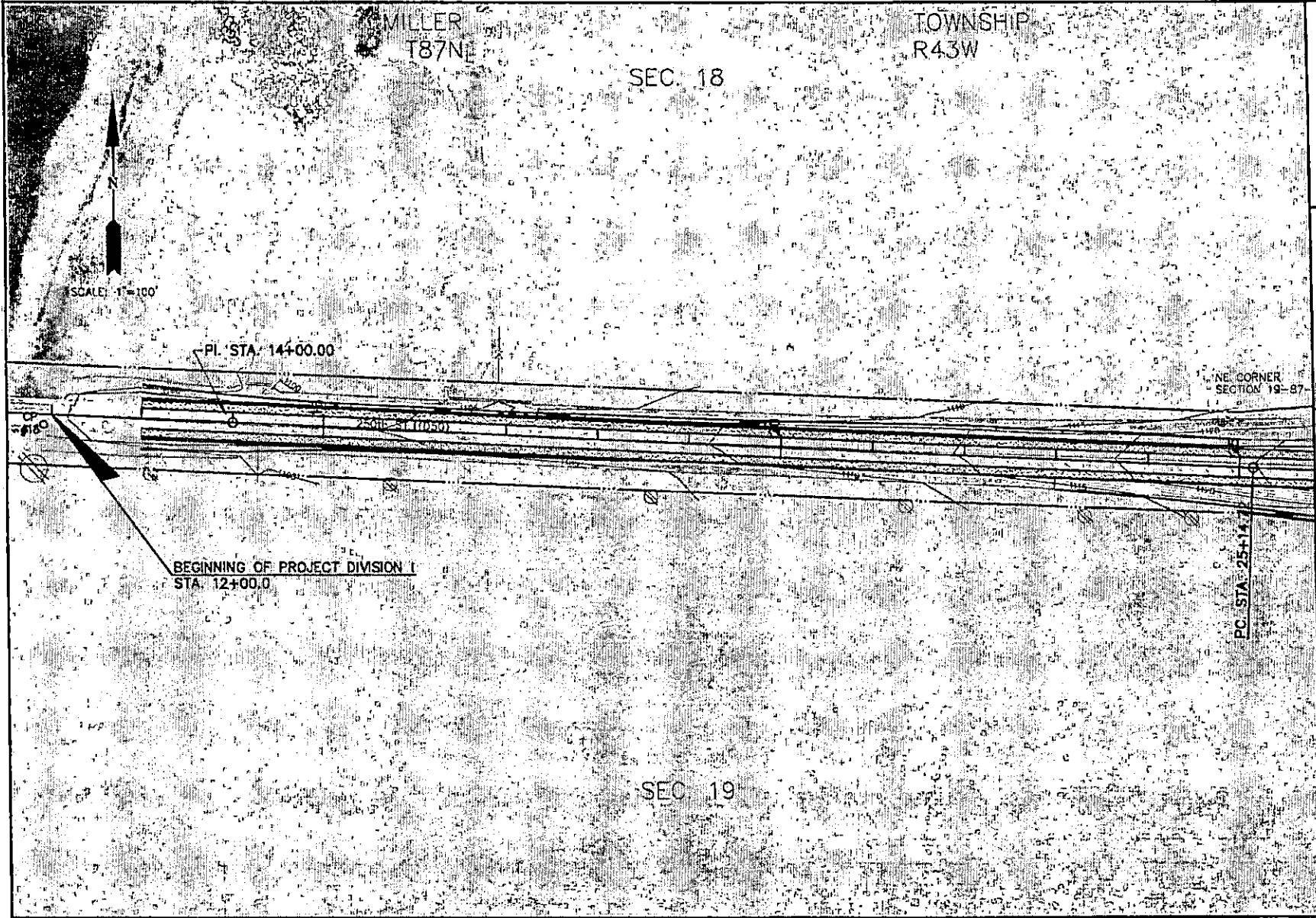
PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
 MILLER TOWNSHIP
 SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION II

PROJECT NO.
 LFM-(D50)-73-07
 SHEET
 21



DETAIL "A"

PROJECT NO. LEMKOR00-7397 SHEET 22	PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP	BSB DRAWN BY: _____ BK DESIGNED BY: _____ M.J.N. APPROVED BY: _____ DATE: _____ REVISION: _____ DATE: _____	WOODBURY COUNTY ENGINEERS OFFICE
	SHEET DESCRIPTION: ROADWAY PIPE DETAILS DIVISION III		



WOODBURY COUNTY
ENGINEERS OFFICE

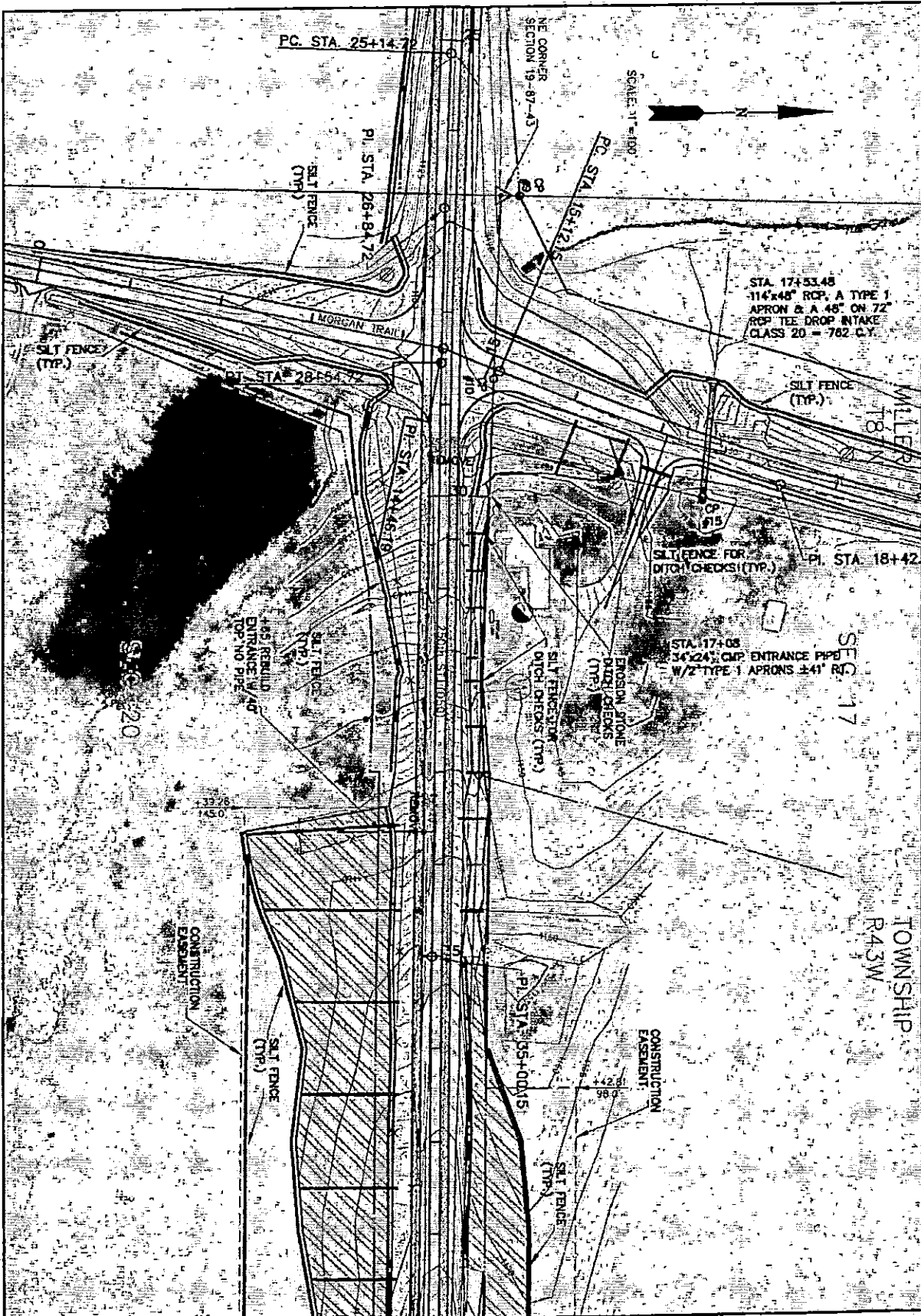
DATE:	
REVISION:	
APPROVED BY:	
DESIGNED BY:	
SKETCH BY:	
DATE:	

PROJECT DESCRIPTION: GRADING 250TH STREET (050)
MILLER TOWNSHIP

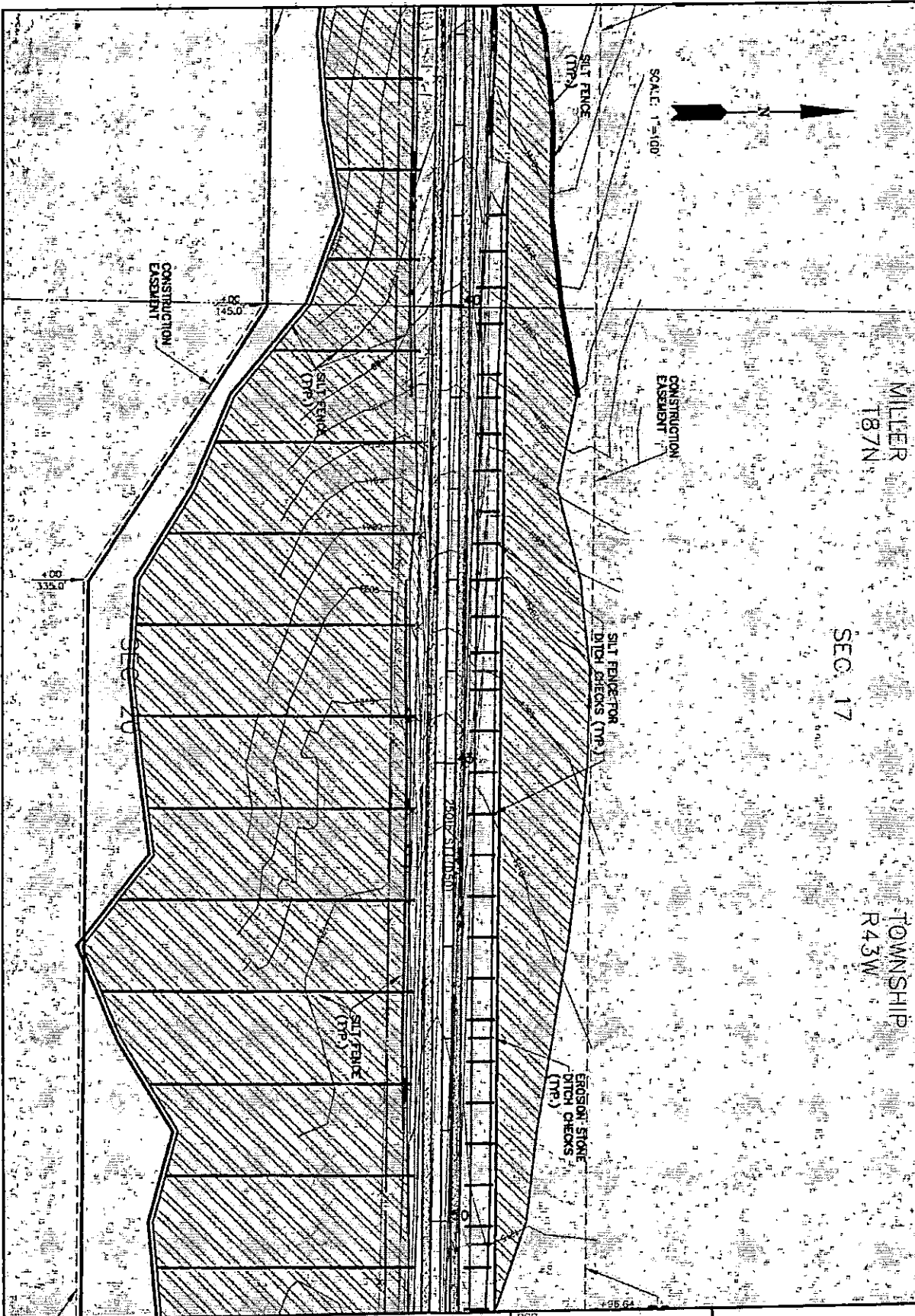
SHEET DESCRIPTION: PLAN VIEW DIVISION I

PROJECT NO.
LFM-(050)-73-97

SHEET
23



PROJECT NO. LFM-000-7387 SHEET 24	PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP	DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____ DATE: _____	WOODBURY COUNTY ENGINEERS OFFICE
	SHEET DESCRIPTION: PLAN VIEW DIVISION I	DATE: _____	



PROJECT NO.
LPA-050-7397
SHEET
25

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP
SHEET DESCRIPTION: PLAN VIEW DIVISION I

DATE:	REVISION:	DATE:
BSB	DESIGNED BY:	
BK	DESIGNED BY:	
MJM	DESIGNED BY:	
MJM	APPROVED BY:	

WOODBURY COUNTY
ENGINEERS OFFICE

MILLER
T87N

TOWNSHIP
R43W

SEC. 17



SCALE: 1"=100'

CONSTRUCTION
EASEMENT

Pl. STA. 53+33.67
N1/4 CORNER
SECTION 20-87-43

STA. 53+33.60
REBUILD ENTRANCE
W/80' TOP 24"x84"
CMP W/SAFETY
APRONS

SILT FENCE FOR
DITCH CHECKS (TYP.)

EROSION STONE
DITCH CHECKS
(TYP.)

DITCH CHECK

Pl. STA. 54+11.67

Pl. STA. 54+33.67

SILT FENCE
(TYP.)

20' OF SILT FENCE AND ROCK
CHECK PLACED IN FRONT OF
OUTLET

STA. 53+47
REBUILD ENTRANCE
W/40' TOP NO PIPE

STA. 58+89.15
98"x24" RCP, A TYPE 1
APRON & 24" DN/A 38"
RCP TEE DROP INTAKE
CLASS 20 = 295 C.Y.

50' OF SILT FENCE PLACED 33',
75', 125' AND 200' DOWNSTREAM
OF OUTLET OF NEW DRAINAGE
STRUCTURES (TYP.)

CONSTRUCTION
EASEMENT

SEC. 20

WOODBURY COUNTY
ENGINEERS OFFICE

DESIGNED BY:	DATE:
DRAWN BY:	REVISION:
CHECKED BY:	
APPROVED BY:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP

SHEET DESCRIPTION: PLAN VIEW DIVISION I

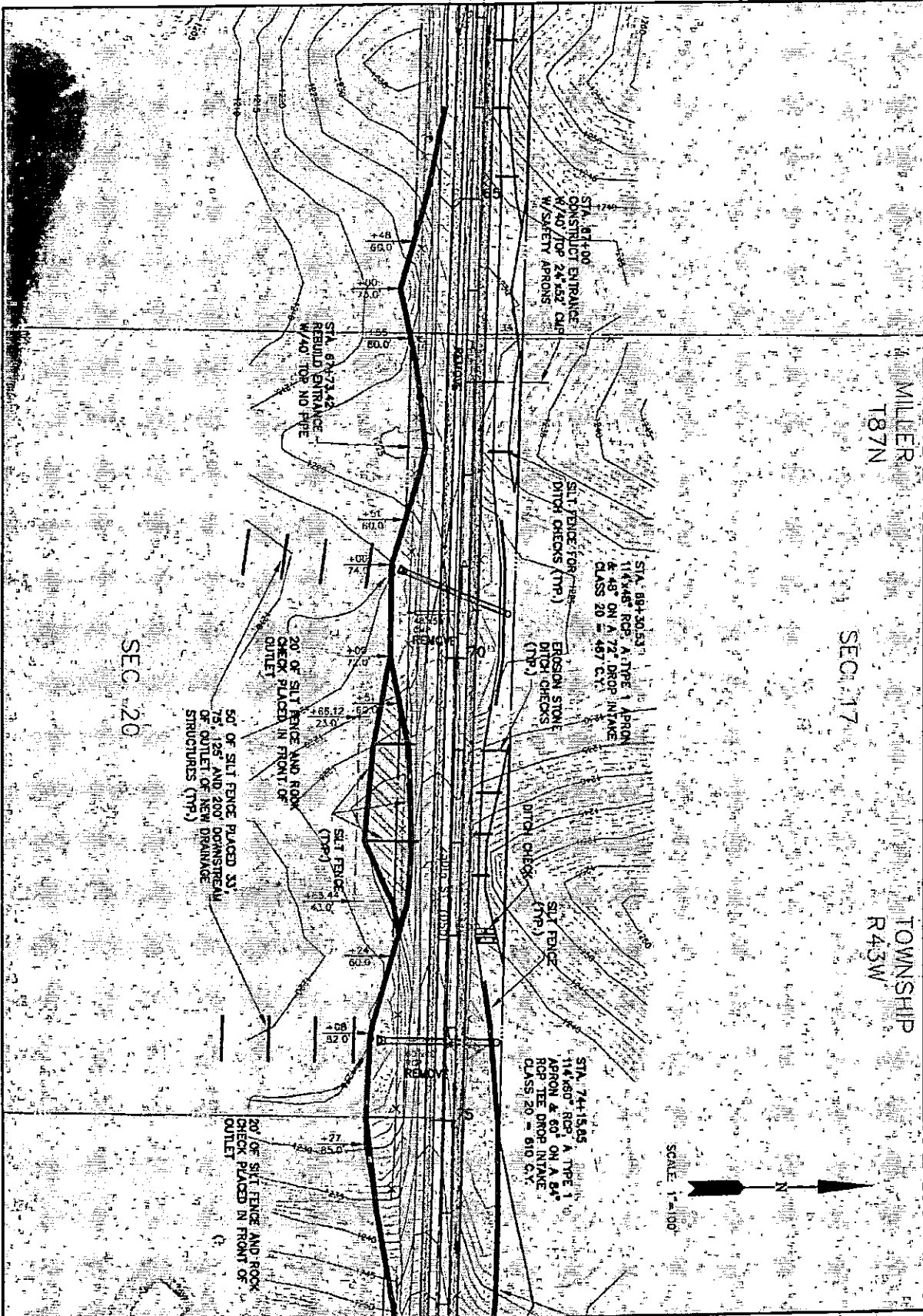
PROJECT NO.
LFM(D50)-73-87
SHEET
26

MILLER
T87N

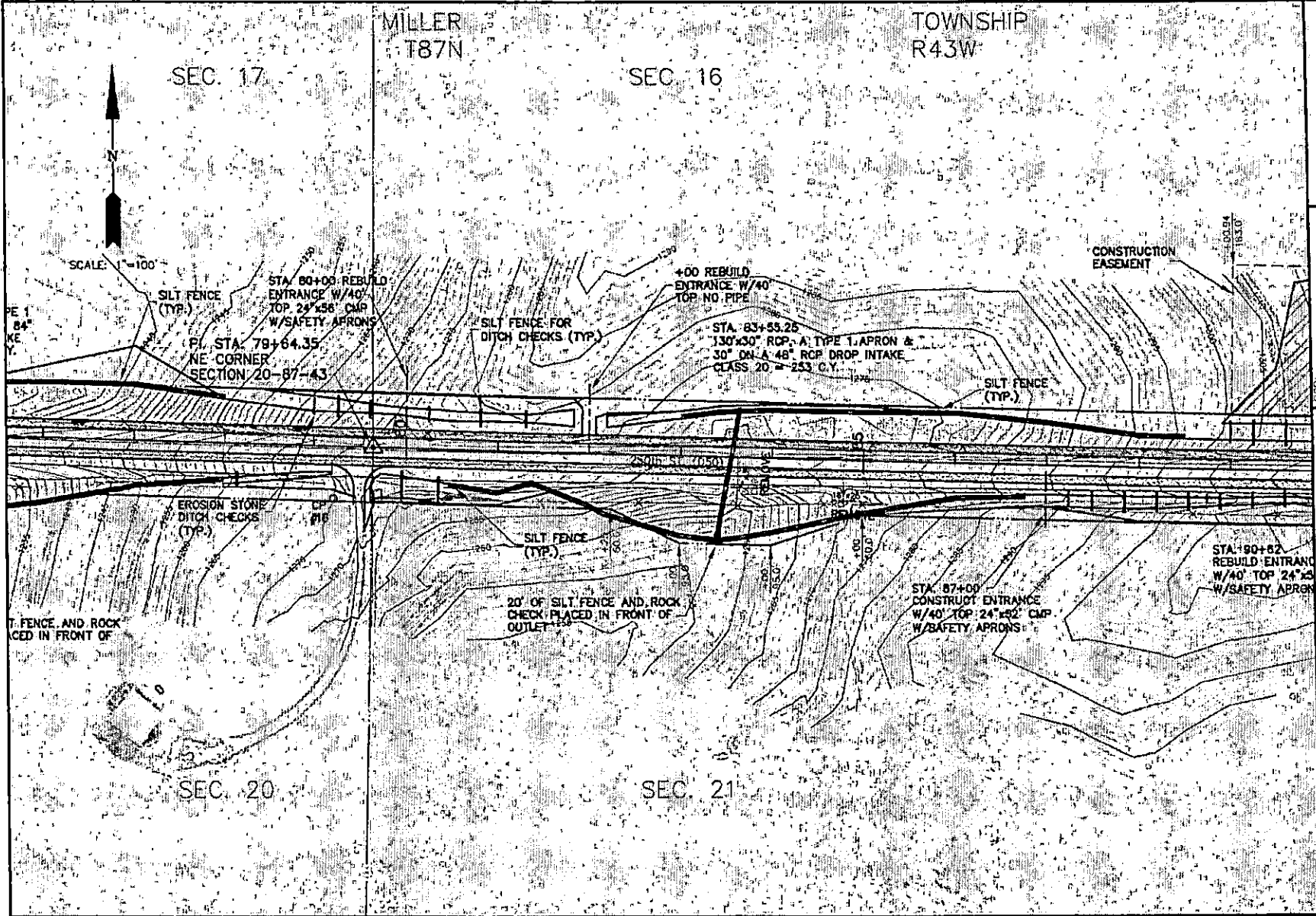
TOWNSHIP
R43W

SEC. 17

SEC. 20



PROJECT NO. LFN 0500-73-97 SHEET 27	PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP	DESIGNED BY: BK CHECKED BY: M.J.N. APPROVED BY: DATE: _____	WOODBURY COUNTY ENGINEERS OFFICE
	SHEET DESCRIPTION: PLAN VIEW DIVISION I	DATE: _____ REVISION: _____ DATE: _____	



WOODBURY COUNTY ENGINEERS OFFICE
 DRAWN BY: _____
 DESIGNED BY: _____
 APPROVED BY: _____
 DATE: _____
 PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP
 SHEET DESCRIPTION: PLAN VIEW DIVISION I
 PROJECT NO. LFM-(D50)-73-97
 SHEET 28

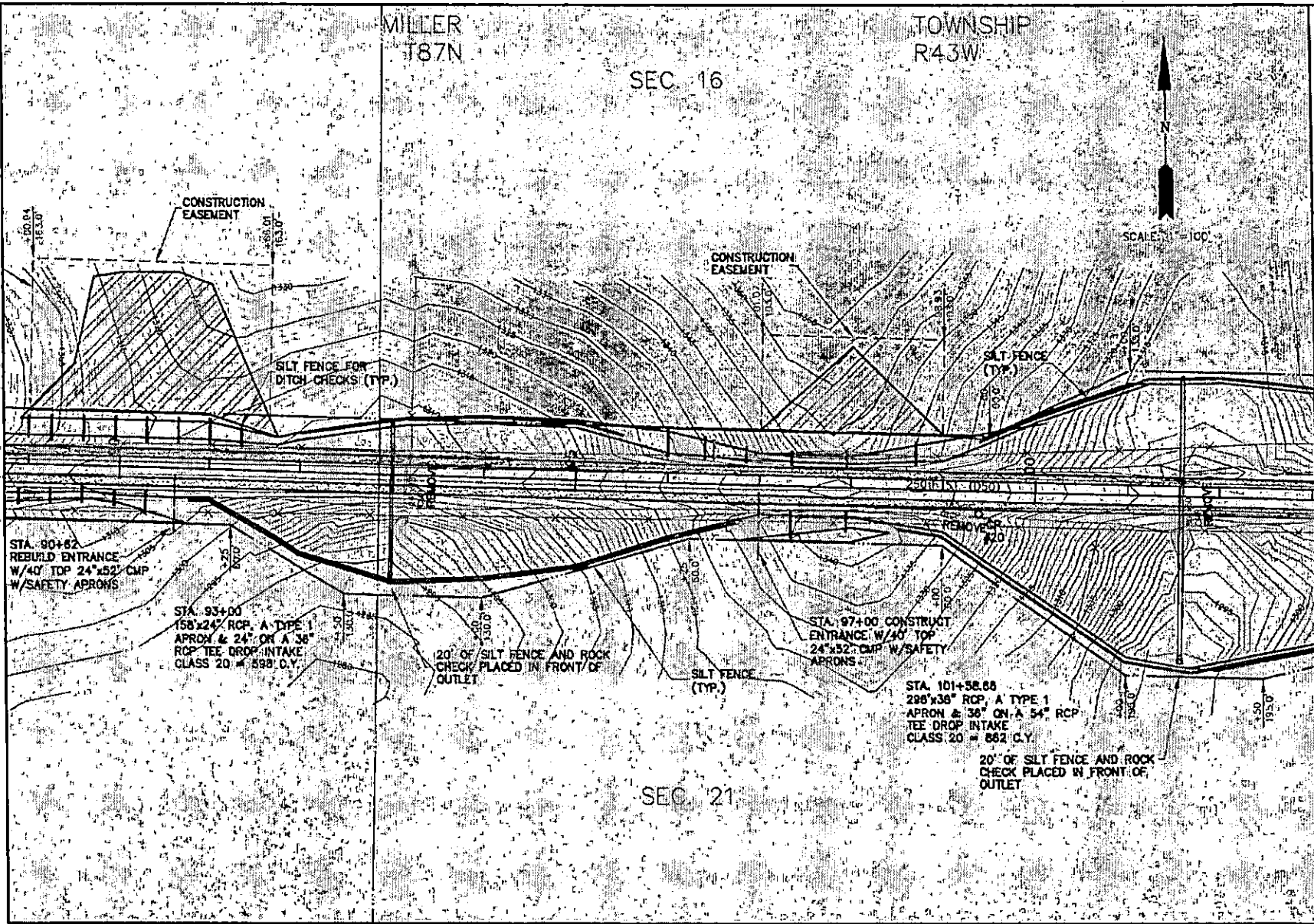
MILLER
T87N

TOWNSHIP
R43W

SEC. 16



SCALE = 1" = 100'



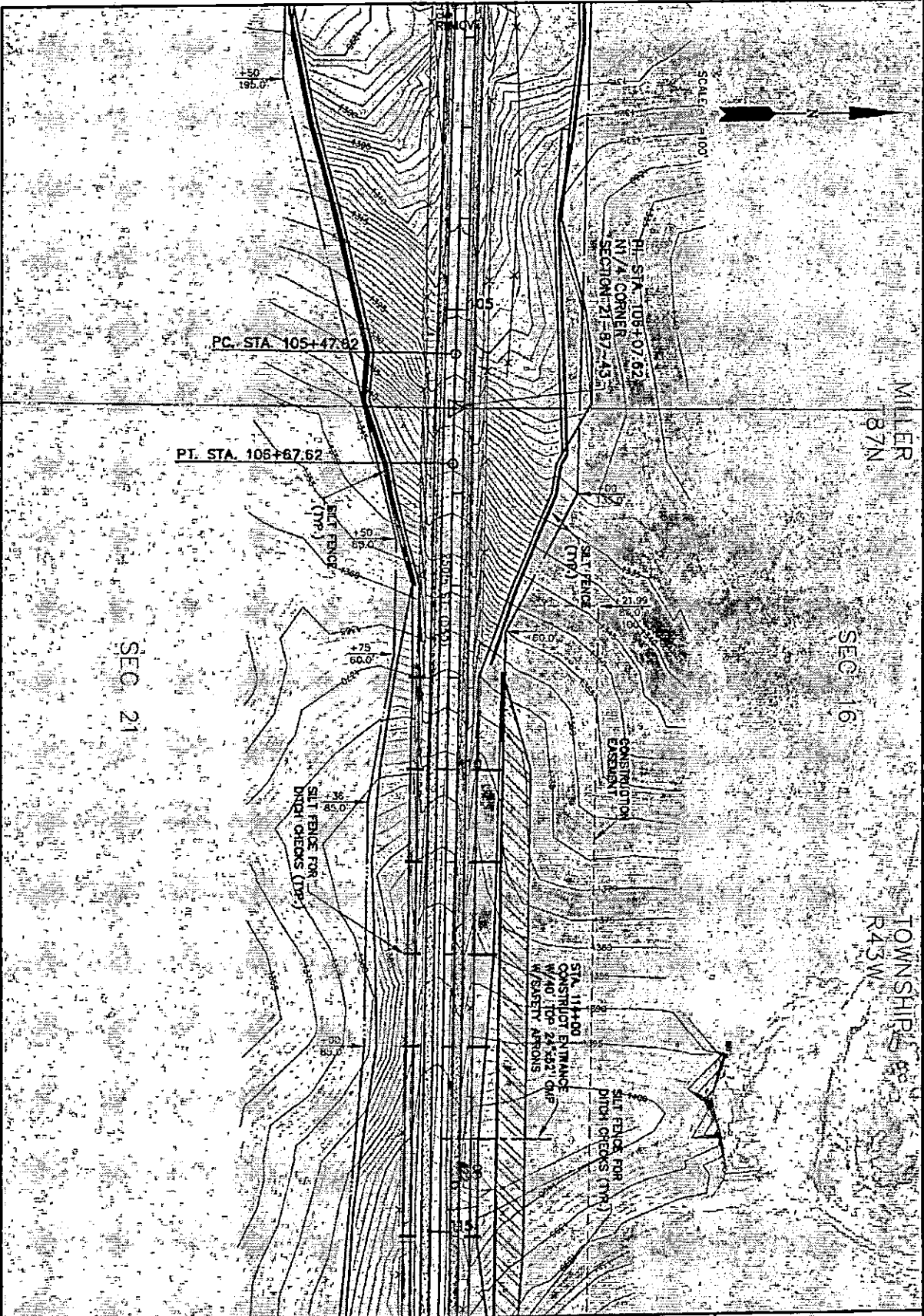
WOODBURY COUNTY
ENGINEERS OFFICE

DESIGNED BY:	DATE:
DRAWN BY:	REVISED BY:
APPROVED BY:	DATE:

PROJECT DESCRIPTION: GRADING 250TH STREET (050)
MILLER TOWNSHIP
SHEET DESCRIPTION: PLAN VIEW, DIVISION I

PROJECT NO.
LFM(050)-73-B7

SHEET
29

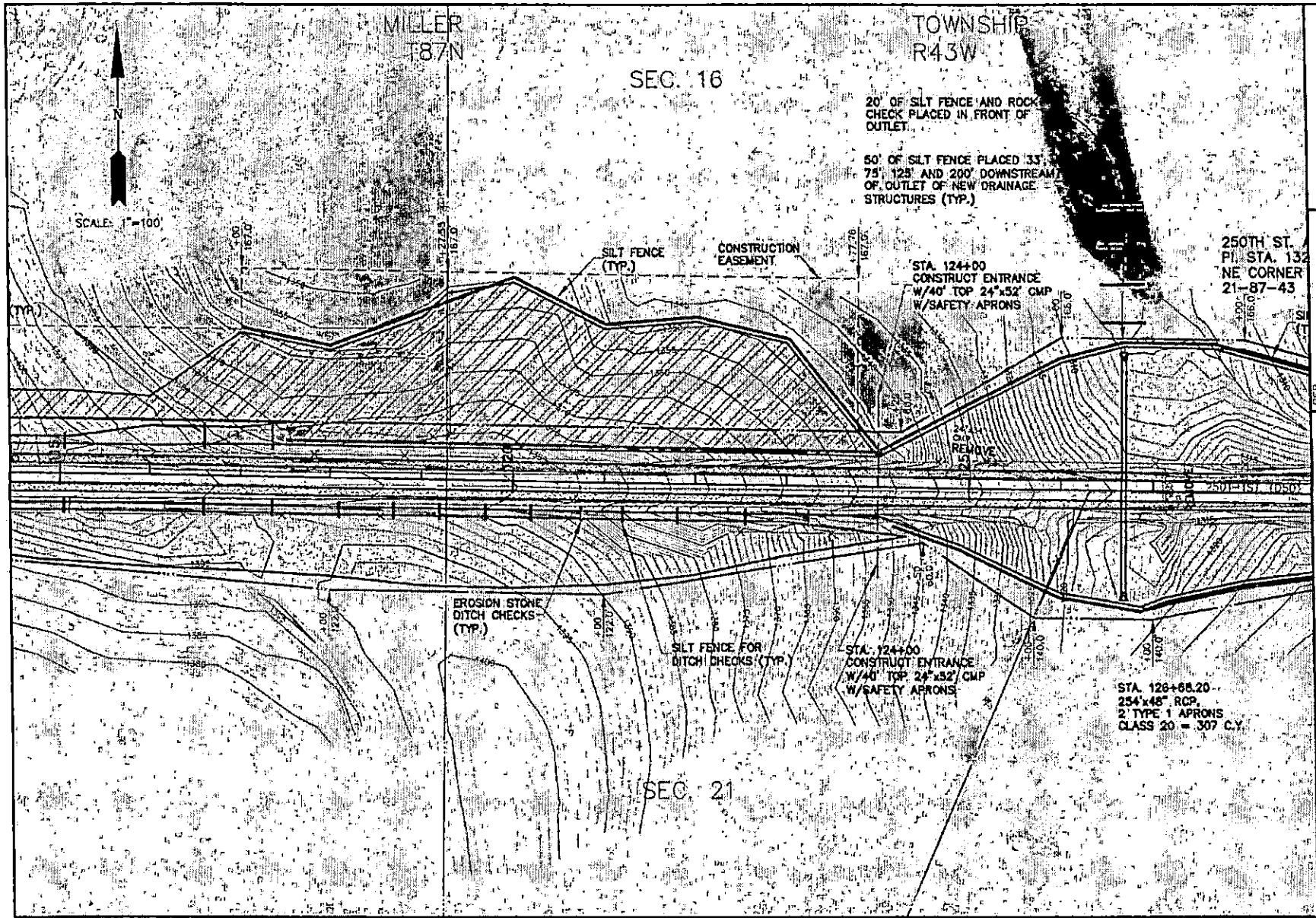


PROJECT NO.
UTM(000)-7387
SHEET
30

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP
SHEET DESCRIPTION: PLAN VIEW DIVISION I

BSB
DRAWN BY: _____
CHK
DESIGNED BY: _____
M.J.N.
APPROVED BY: _____
DATE: _____ REVISION: _____ DATE: _____

WOODBURY COUNTY
ENGINEERS OFFICE

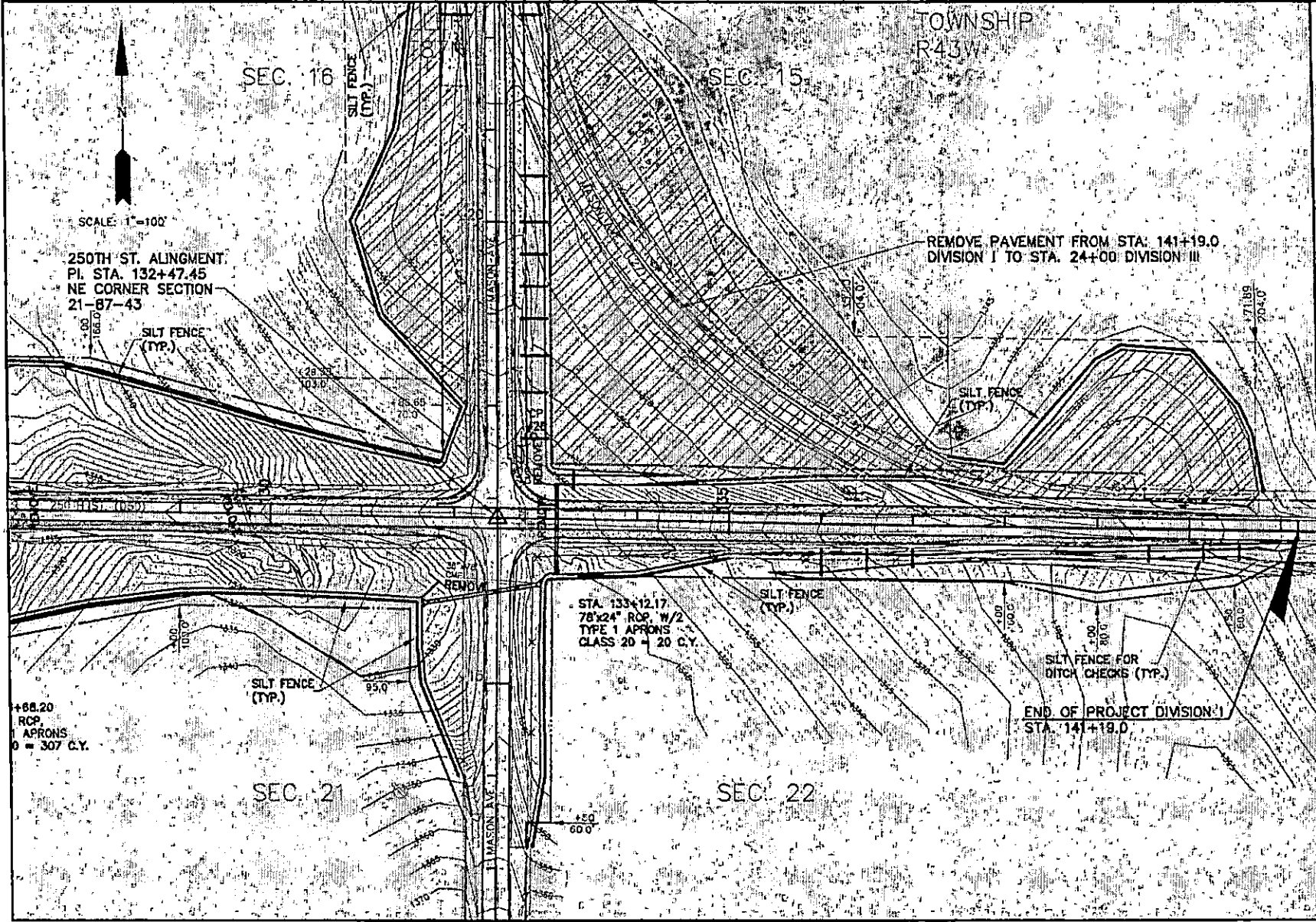


WOODBURY COUNTY
 ENGINEERS OFFICE

DESIGNED BY:	DATE:
DRAWN BY:	REVISION:
CHECKED BY:	
APPROVED BY:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP
 SHEET DESCRIPTION: PLAN VIEW DIVISION I

PROJECT NO. LFM-(D50)-73-97
 SHEET 31



SCALE: 1"=100'

250TH ST. ALIGNMENT,
P.I. STA. 132+47.45
NE CORNER SECTION
21-87-43

REMOVE PAVEMENT FROM STA. 141+19.0
DIVISION I TO STA. 24+00 DIVISION III

STA. 133+12.17
78"x24" RCP, W/2
TYPE 1 APRONS
CLASS 20 = 20 C.Y.

END OF PROJECT DIVISION I
STA. 141+19.0

WOODBURY COUNTY
ENGINEERS OFFICE

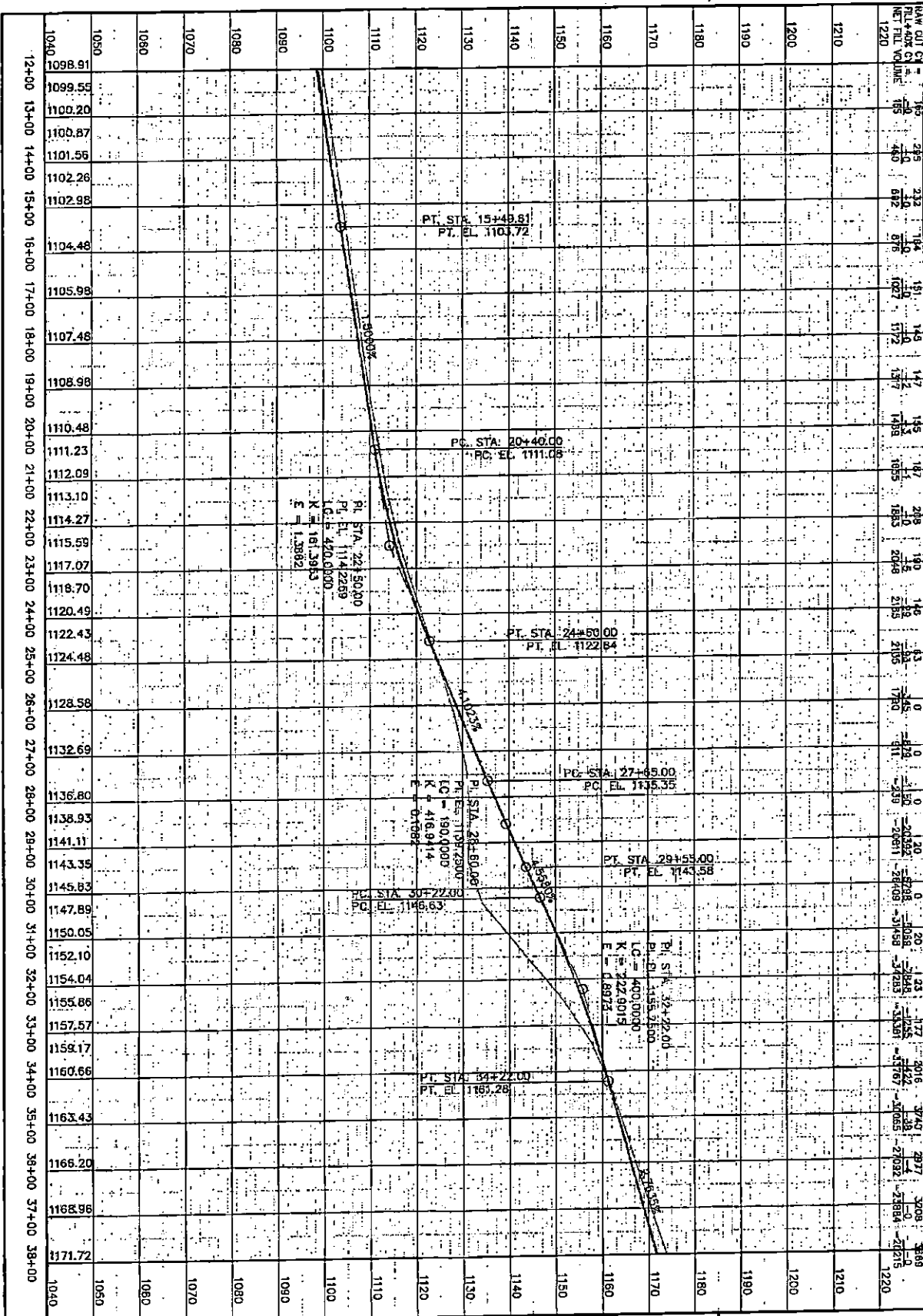
DESIGNED BY:	DATE:
CHECKED BY:	
APPROVED BY:	
DATE:	

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP

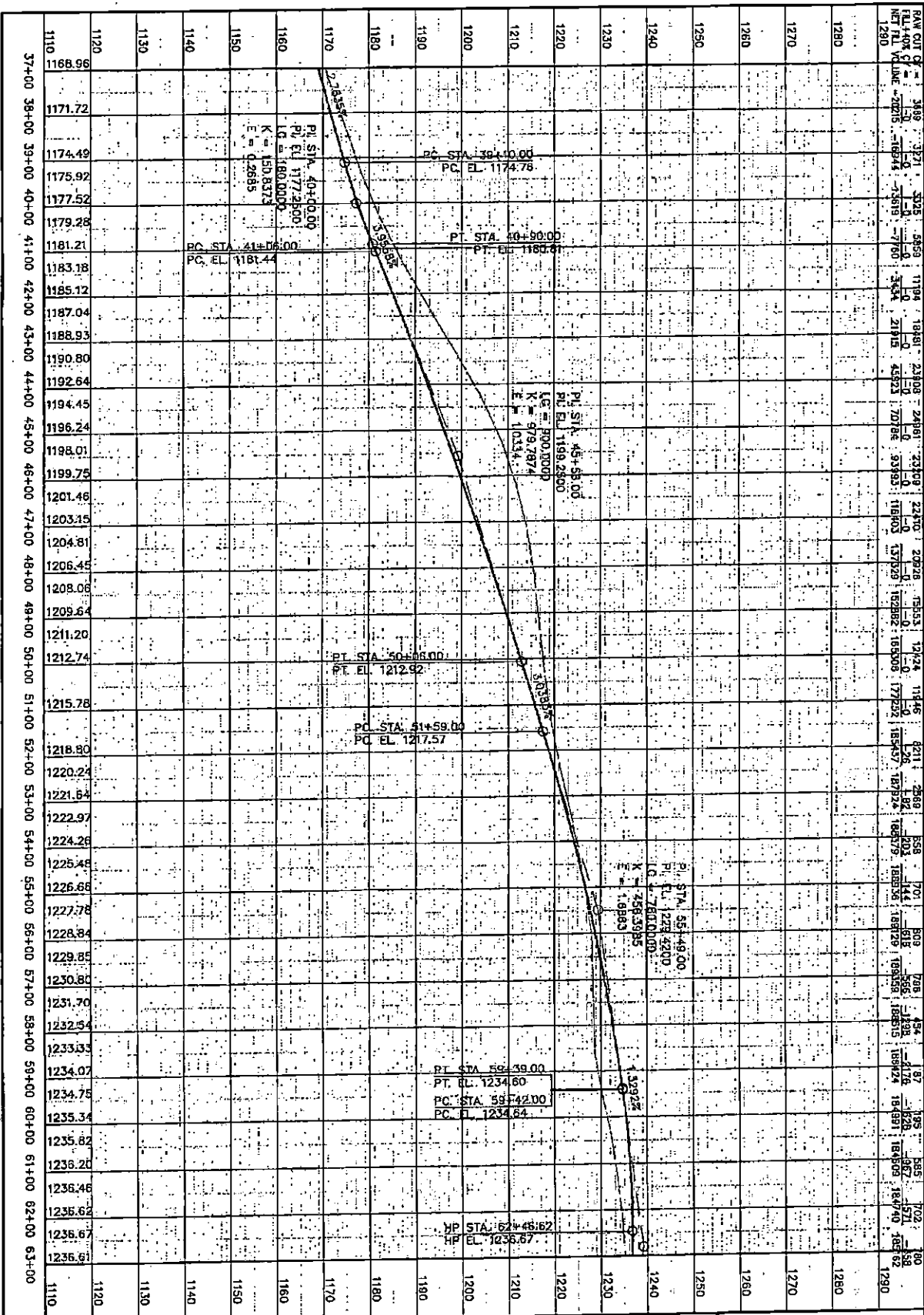
SHEET DESCRIPTION: PLAN VIEW DIVISION I

PROJECT NO.
LFM-050-73-97

SHEET
32



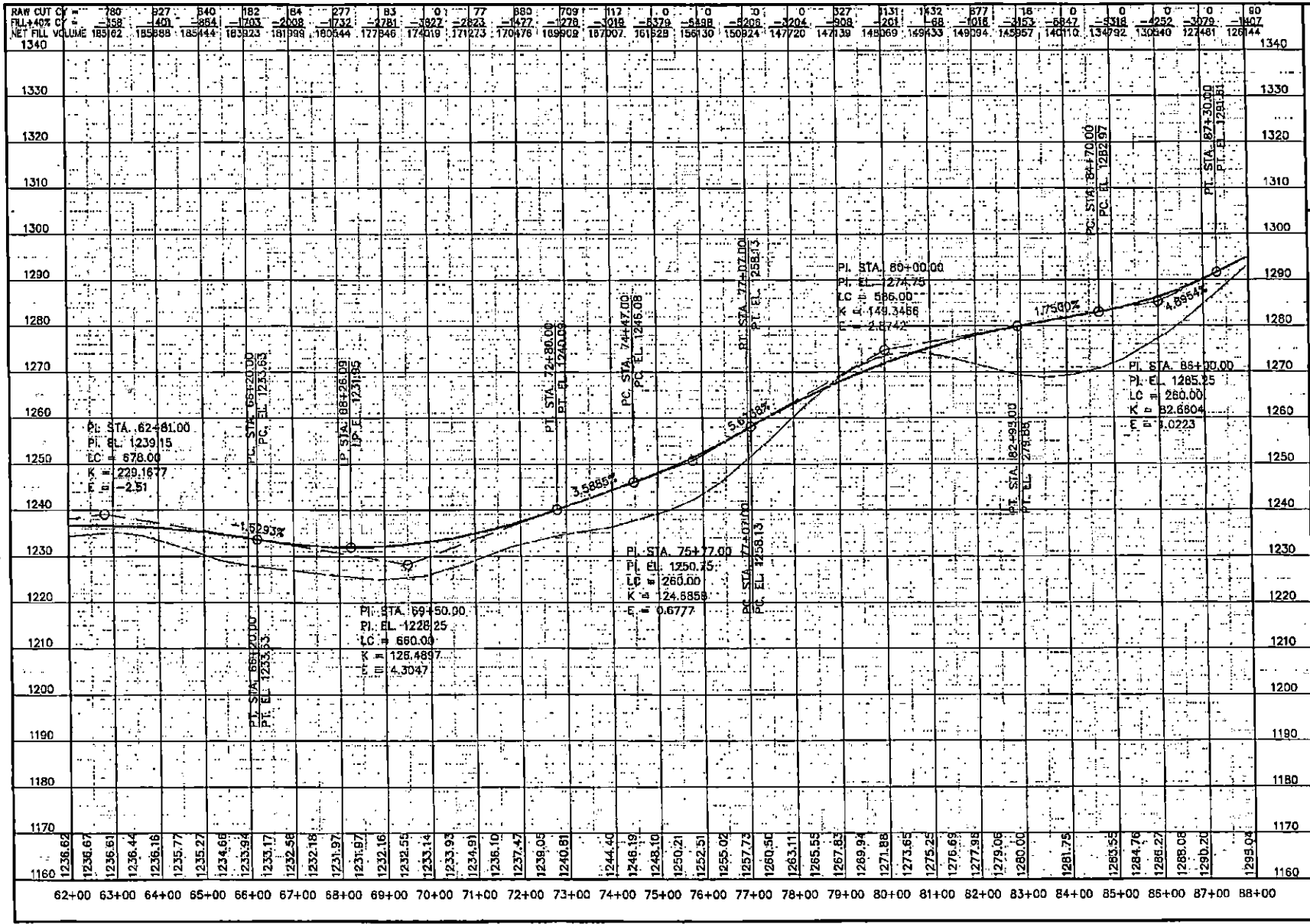
PROJECT NO. LHM(050)-7347 SHEET 33	PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP SHEET DESCRIPTION: PROFILE DIVISION I	BSS DRAWN BY: BK DESIGNED BY: M.J.N. APPROVED BY: DATE: _____ REVISION: _____ DATE: _____	WOODBURY COUNTY ENGINEERS OFFICE
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37+00 38+00 39+00 40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00 62+00 63+00

RAW CUT	3199	3271	3325	3653	1194	1841	2340	2491	3319	2240	2092	1503	1212	1146	821	589	701	808	708	454	197	195	585	702	80
FINISH	1174	1175	1177	1179	1181	1183	1185	1188	1190	1192	1194	1196	1198	1200	1202	1204	1206	1208	1210	1212	1214	1216	1218	1220	1222
NET TALL	-175	-174	-178	-180	-182	-184	-187	-191	-194	-197	-200	-203	-206	-209	-212	-215	-218	-221	-224	-227	-230	-233	-236	-239	-242
WIDTH	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00

PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP
 SHEET DESCRIPTION: PROFILE DIVISION I
 PROJECT NO. LHM-050-7347
 SHEET 34
 WOODBURY COUNTY ENGINEERS OFFICE
 DRAWN BY: _____
 DESIGNED BY: _____
 M.J.N.
 APPROVED BY: _____
 DATE: _____ REVISION: _____ DATE: _____



WOODBURY COUNTY
ENGINEERS OFFICE

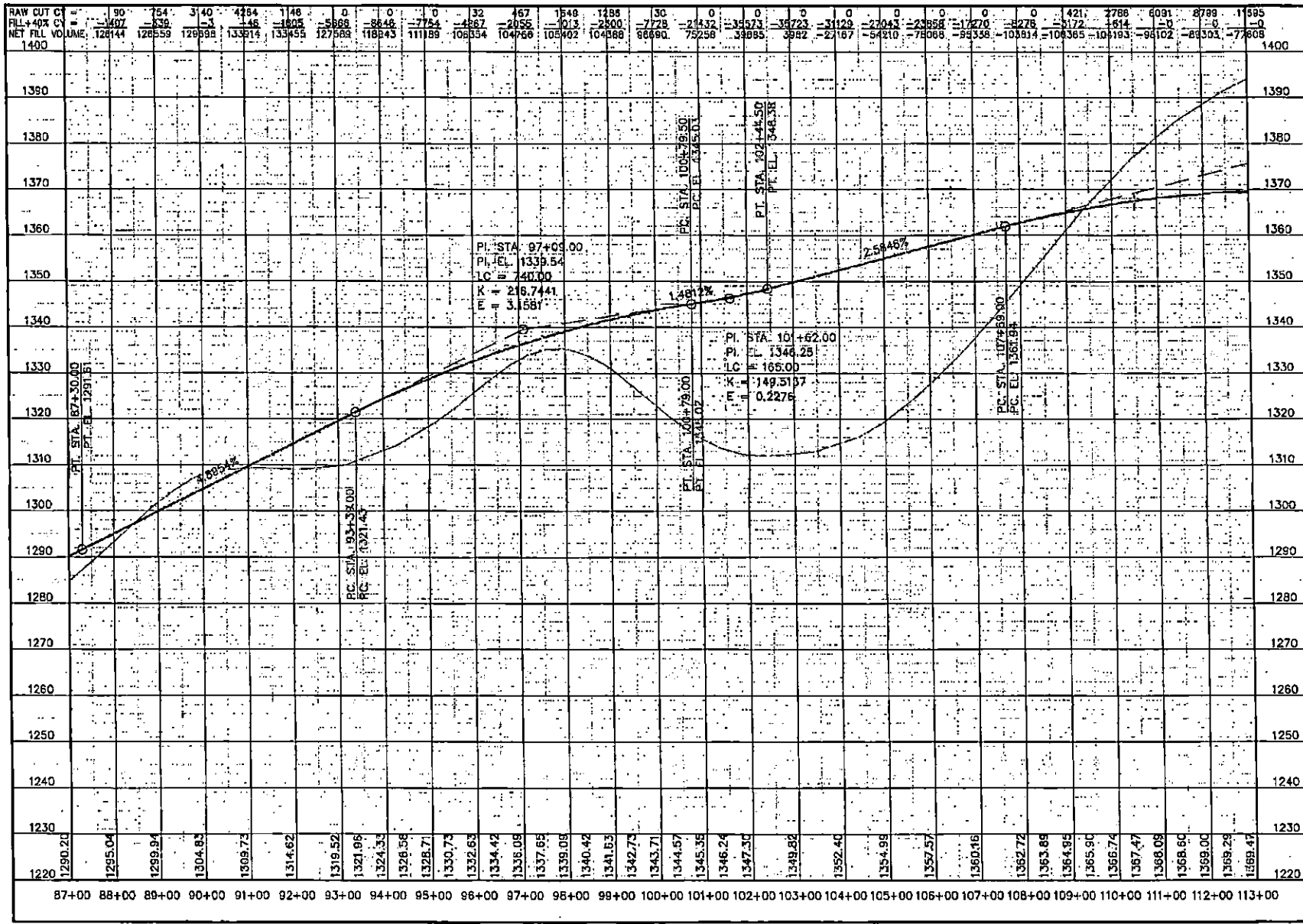
PROJECT DESCRIPTION: **GRADING 250TH STREET (D50)**
MILLER TOWNSHIP

SHEET DESCRIPTION: **PROFILE**

PROJECT NO. **LFM(D50)-73-97**

SHEET **35**

DESIGNED BY: _____ DATE: _____
 DRAWN BY: _____ REVISION: _____
 APPROVED BY: _____



**WOODBURY COUNTY
ENGINEERS OFFICE**

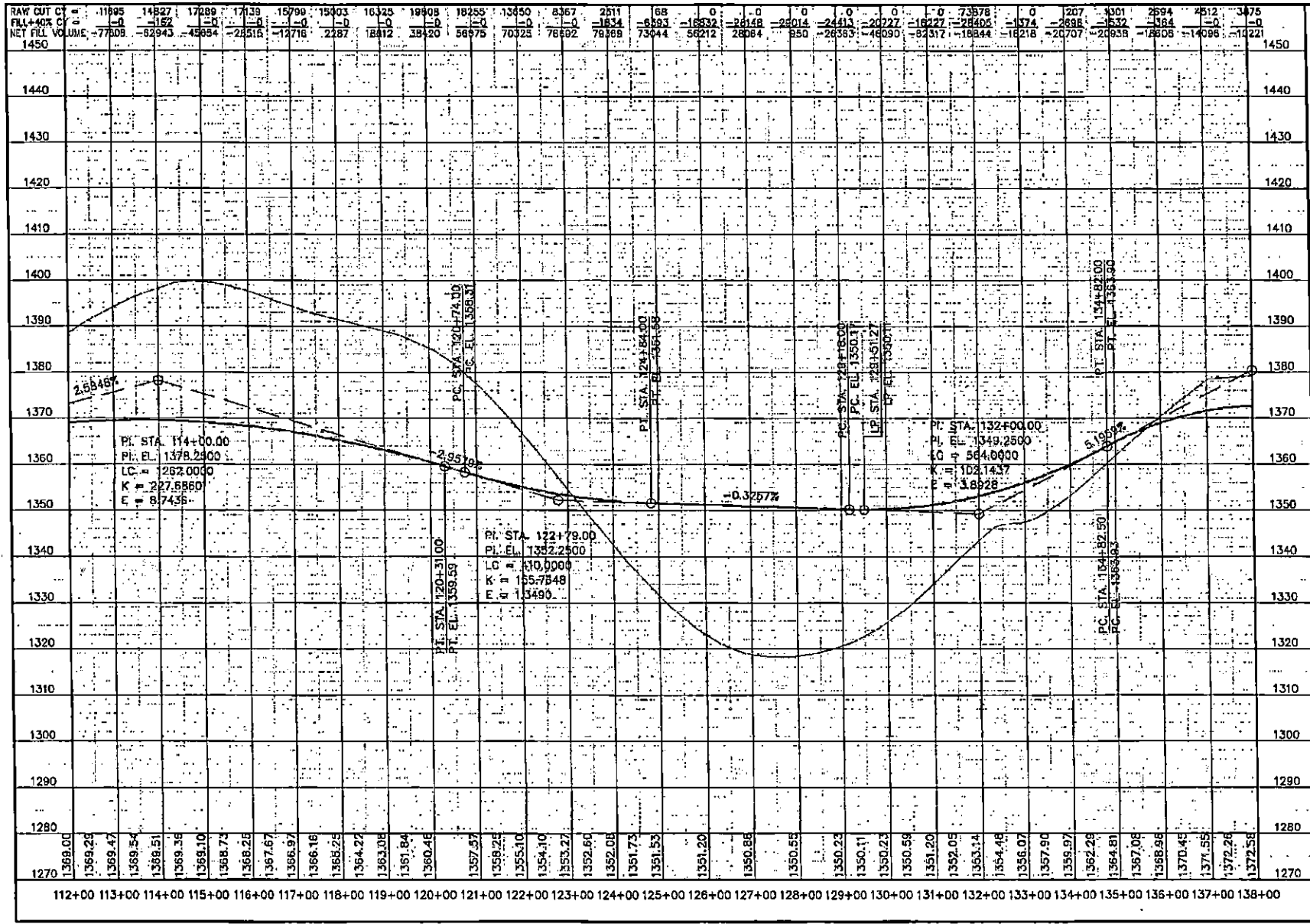
PROJECT DESCRIPTION: **GRADING 250TH STREET (D50)
MILLER TOWNSHIP**

SHEET DESCRIPTION: **PROFILE**

DRAWN BY: _____ DATE: _____
 DESIGNED BY: _____ REVISION: _____
 MAIN: _____
 APPROVED BY: _____

PROJECT NO.
LFM-(06)-73-97

SHEET
36

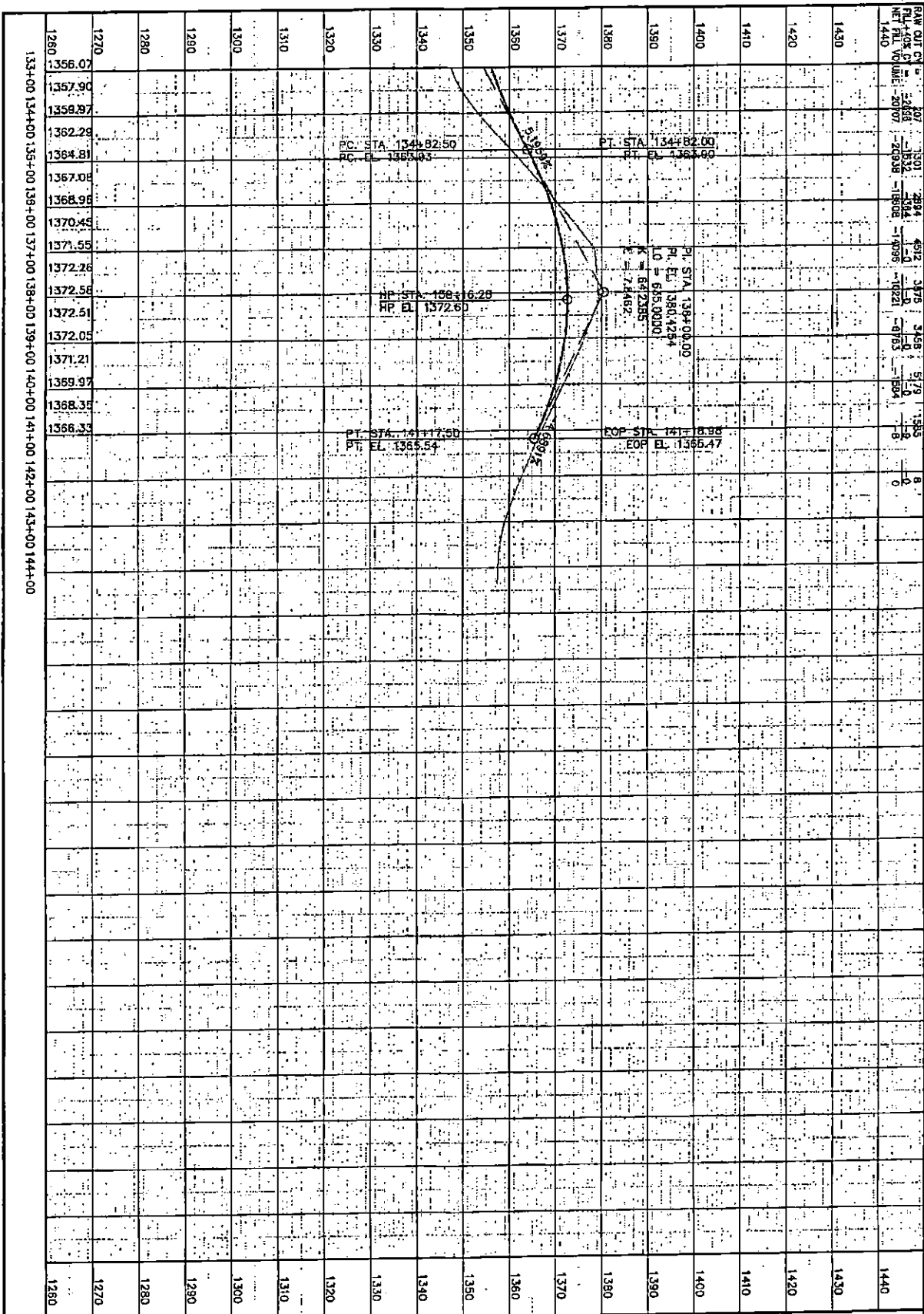


WOODBURY COUNTY
ENGINEERS OFFICE

DRAWN BY: _____ DATE: _____
 BK DESIGNED BY: _____
 MAIN APPROVED BY: _____
 DATE: _____

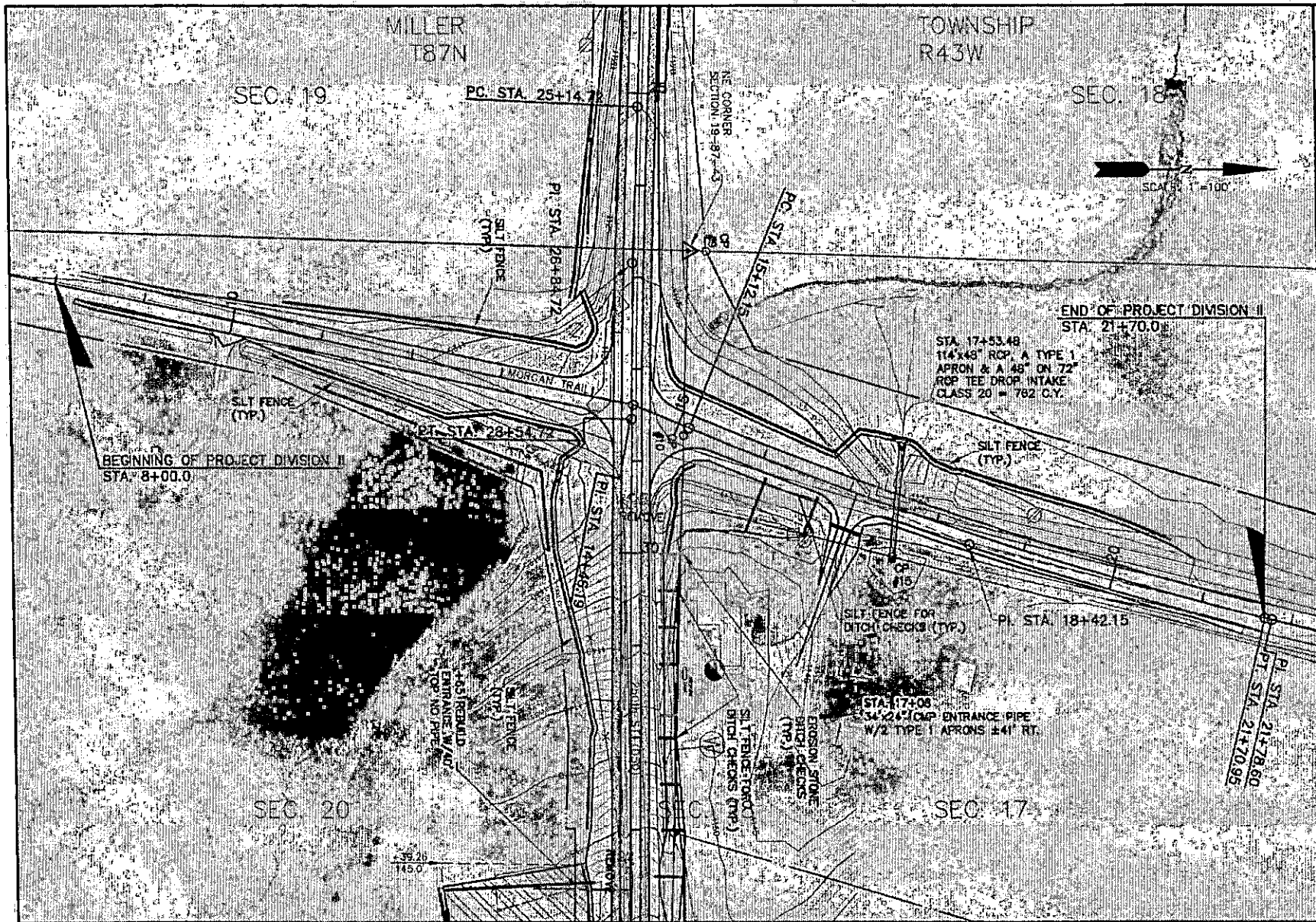
PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
 MILLER TOWNSHIP
 SHEET DESCRIPTION: PROFILE DIVISION I

PROJECT NO.
 LFM-D50-73-97
 SHEET
 37



133+00 134+00 135+00 136+00 137+00 138+00 139+00 140+00 141+00 142+00 143+00 144+00

PROJECT NO. LHM-090-73-97 SHEET 38	PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP SHEET DESCRIPTION: PROFILE DIVISION I	BSB DRAWN BY: _____ BK DESIGNED BY: _____ MJN APPROVED BY: _____ DATE: _____ REVISION: _____ DATE: _____	WOODBURY COUNTY ENGINEERS OFFICE
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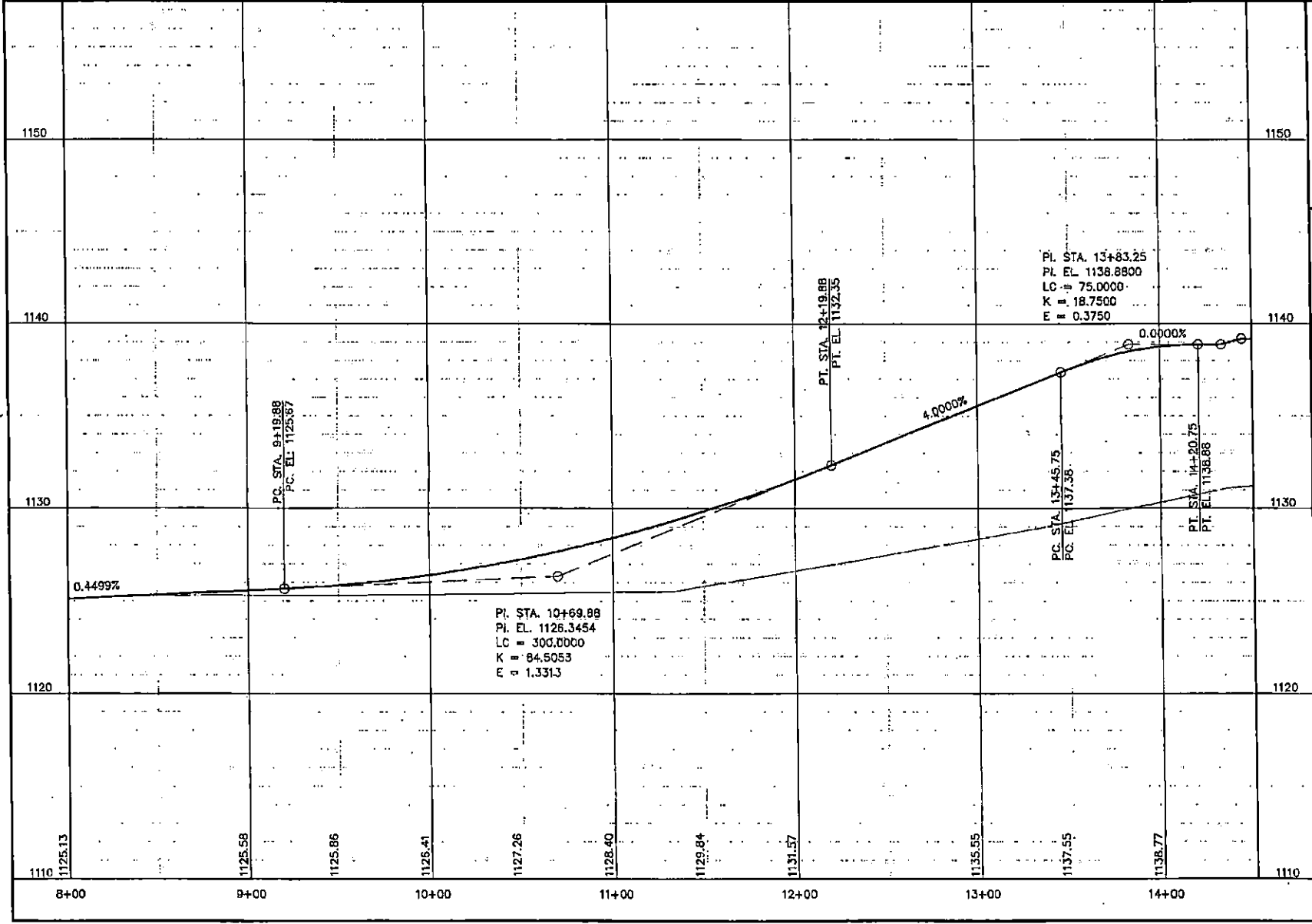


WOODBURY COUNTY
ENGINEERS OFFICE

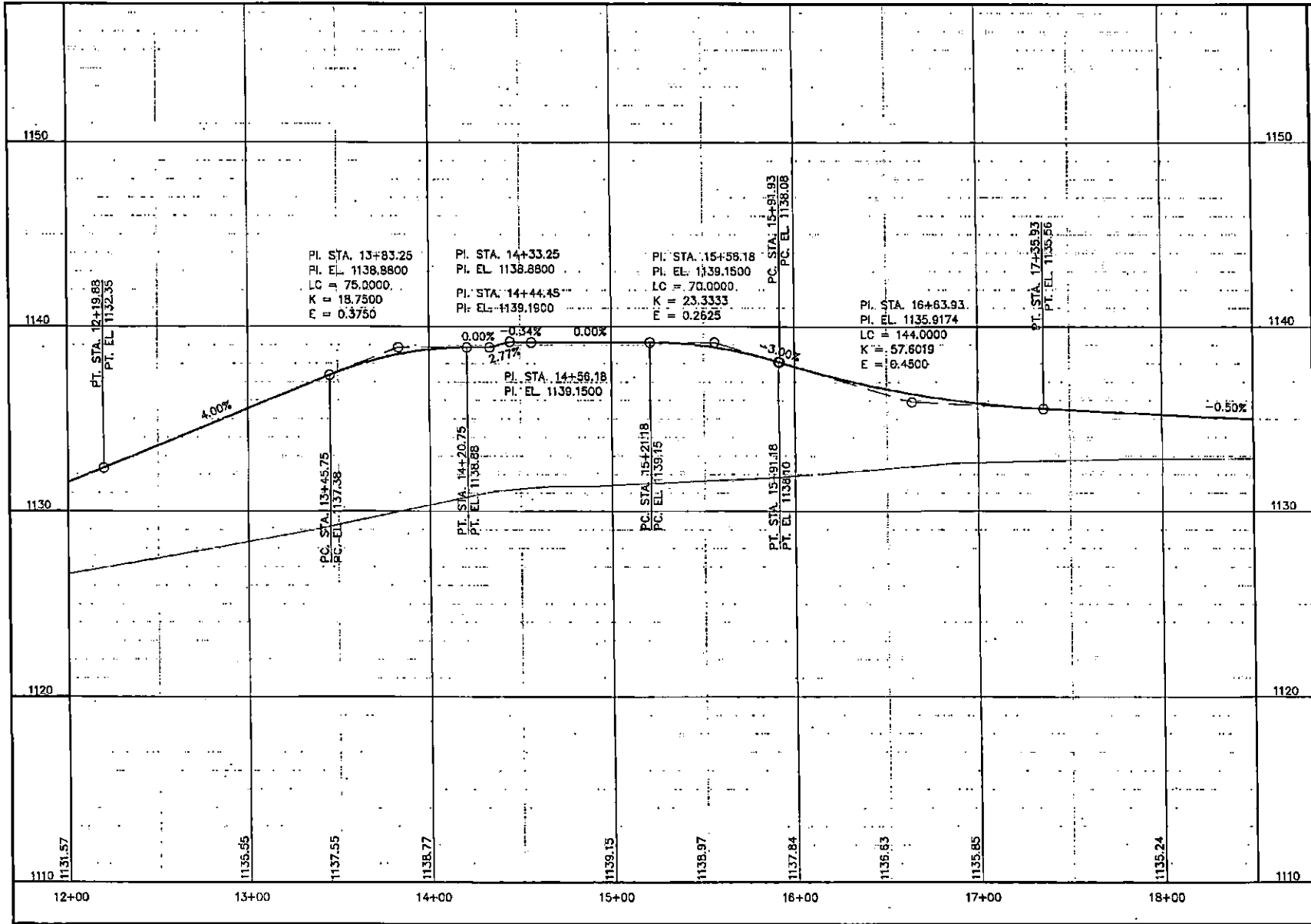
DATE	REVISION

PROJECT DESCRIPTION: GRADING 250TH STREET (D50)
MILLER TOWNSHIP
SHEET DESCRIPTION: PLAN VIEW DIVISION II

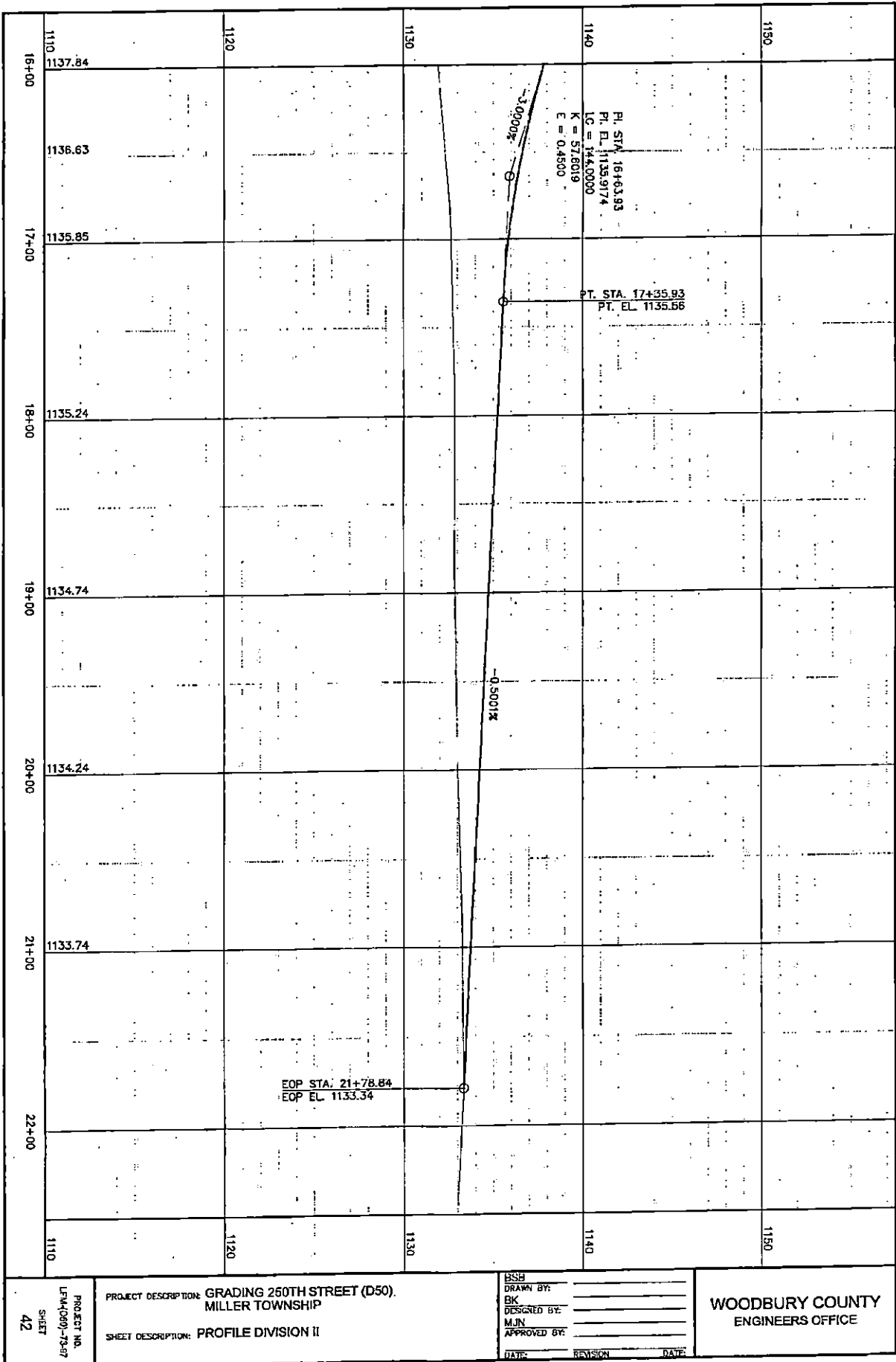
PROJECT NO.: LFM-D50-73-97
SHEET
39



WOODBURY COUNTY ENGINEERS OFFICE	
PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP	SHEET DESCRIPTION: PROFILE DIVISION II
PRO. ECT NO. LFM-060-73-87	
SHEET 40	
DATE: _____ REVISION: _____ APPROVED BY: _____ MAIN: _____ DESIGNED BY: _____ BK: _____ DRAWN BY: _____ BSE: _____	DATE: _____ REVISION: _____



PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP		SHEET DESCRIPTION: PROFILE DIVISION II	
BSS DRAWN BY: _____ CHK DESIGNED BY: _____ M.J.N. APPROVED BY: _____ DATE: _____	RATE: _____ REVISION: _____ DATE: _____	PROJECT NO. LFM-(D50)-73-97	
SHEET 41		WOODBURY COUNTY ENGINEERS OFFICE	

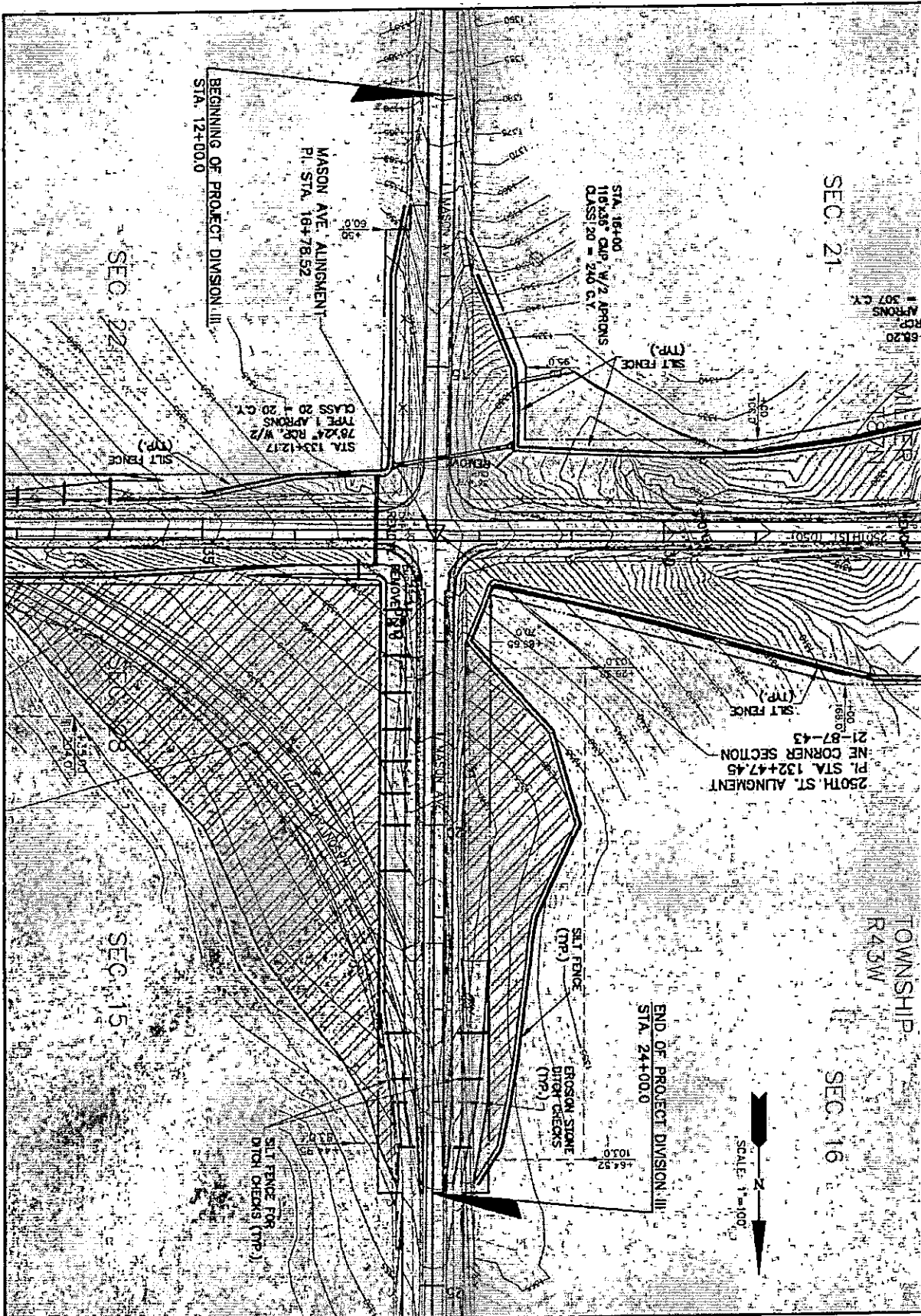


PROJECT DESCRIPTION: GRADING 250TH STREET (D50),
 MILLER TOWNSHIP
 SHEET DESCRIPTION: PROFILE DIVISION II

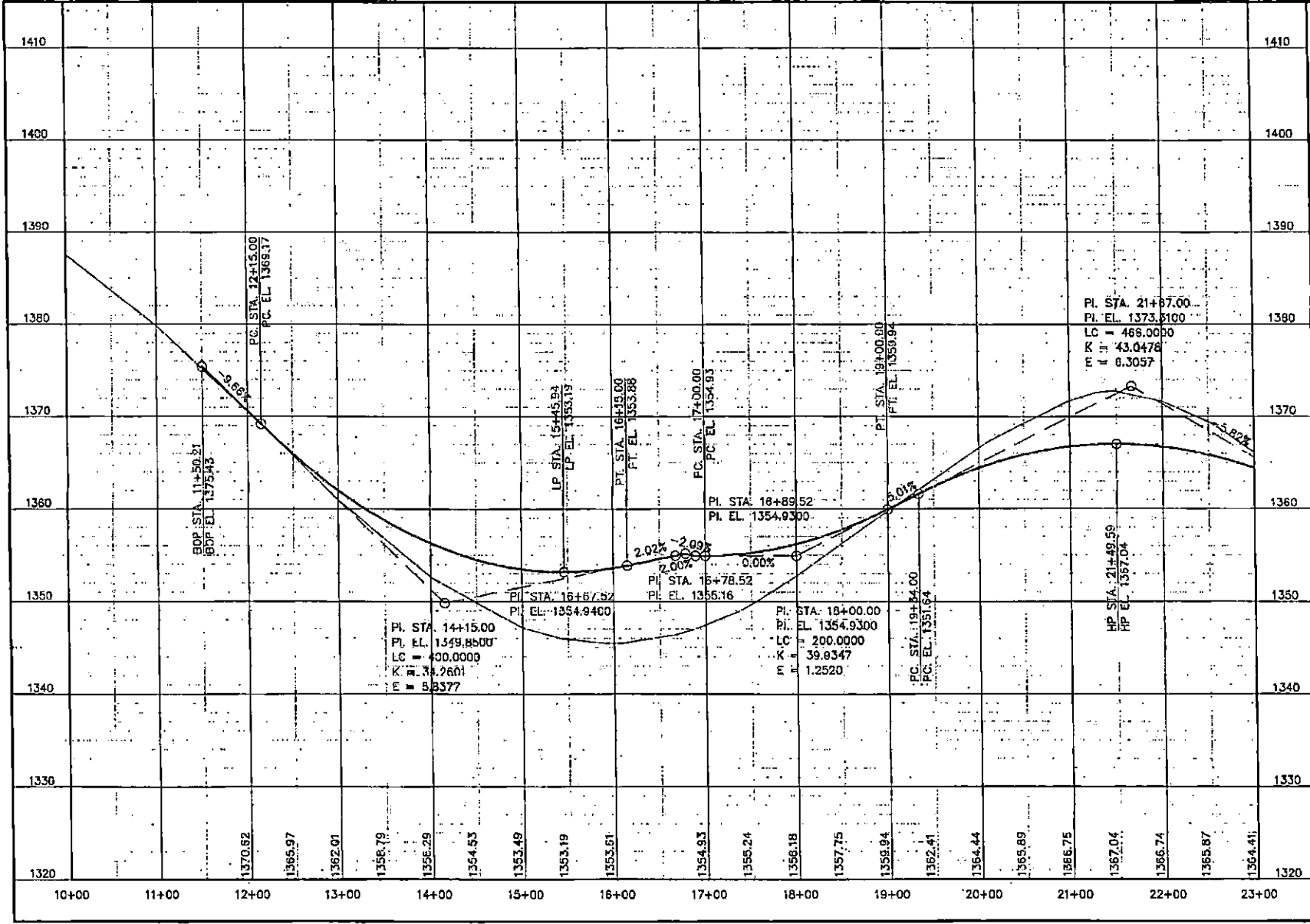
BSH
 DRAWN BY: _____
 BK
 DESIGNED BY: _____
 MJN
 APPROVED BY: _____
 DATE: _____ REVISION: _____ DATE: _____

WOODBURY COUNTY
 ENGINEERS OFFICE

PROJECT NO.
 LFM-090-73-07
 SHEET
 42



PROJECT NO. LPM(050)-7337 SHEET 43	PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP	BSB DRAWN BY: _____ BK DESIGNED BY: _____ MJN APPROVED BY: _____ DATE: _____	WOODBURY COUNTY ENGINEERS OFFICE
	SHEET DESCRIPTION: PLAN VIEW DIVISION III	REVISION: _____ RATE: _____	



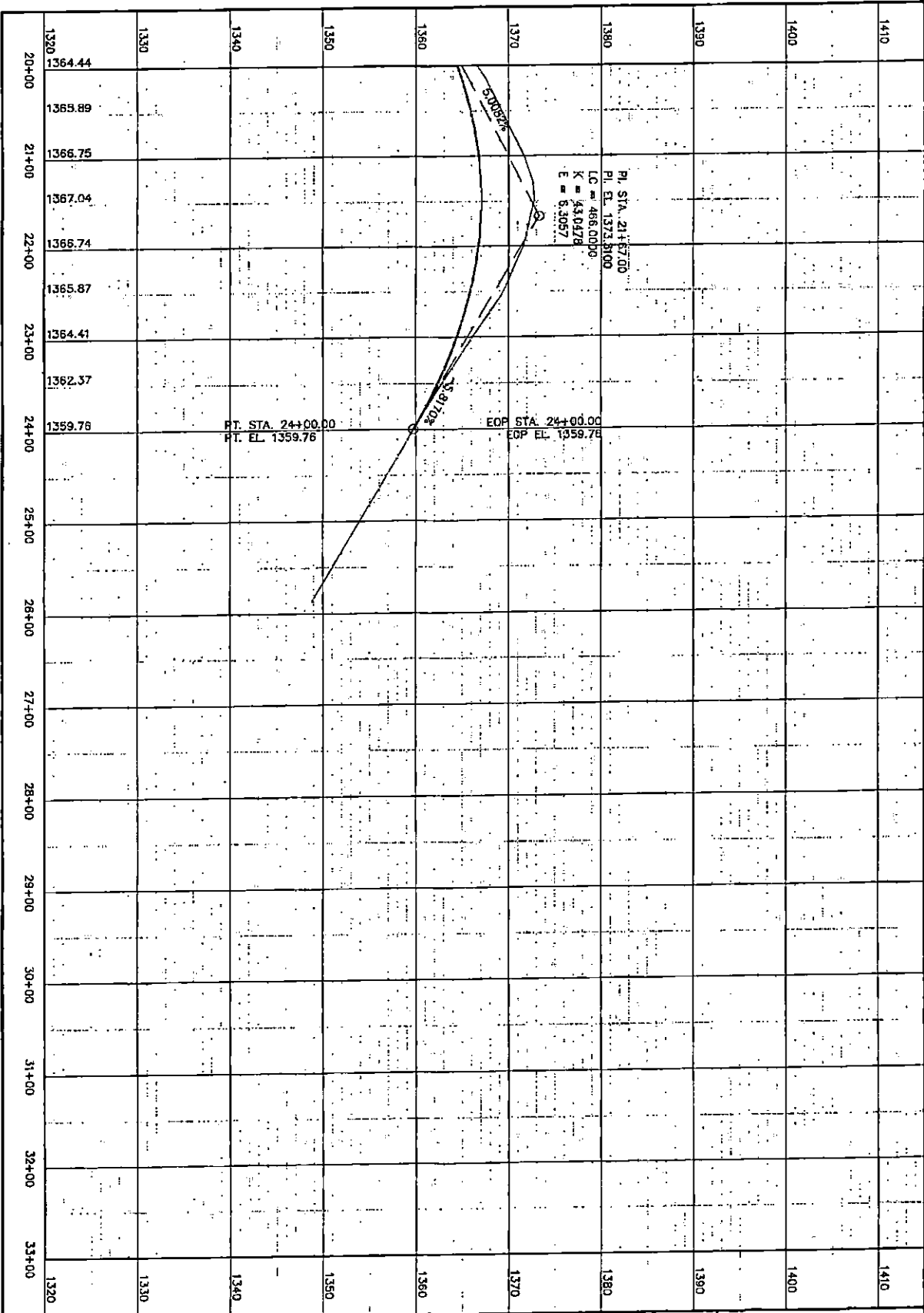
**WOODBURY COUNTY
ENGINEERS OFFICE**

PROJECT DESCRIPTION: **GRADING 250TH STREET (D50)
MILLER TOWNSHIP**

SHEET DESCRIPTION: **PROFILE DIVISION III**

PROJECT NO.
LFM/D50-73-97

SHEET
44



PI STA. 21+67.00
 PL EL. 1373.8000
 LC = 466.0000
 K = 43.0278
 E = 6.3057

RT STA. 24+00.00
 RT EL. 1359.76
 EOP STA. 24+00.00
 EOP EL. 1359.76

PROJECT NO. LHM (050)-75-87 SHEET 45	PROJECT DESCRIPTION: GRADING 250TH STREET (D50) MILLER TOWNSHIP	BSB DRAWN BY: _____ BK DESIGNED BY: _____ MJN APPROVED BY: _____	WOODBURY COUNTY ENGINEERS OFFICE
	SHEET DESCRIPTION: PROFILE DIVISION III		