



ITEM NO	ITEM C.P. 85-03-116	UNIT	TOTAL ESTIMATED QUANTITIES	TOTAL FINAL QUANTITIES
2021.501	MOBILIZATION	LUMP SUM	1	
2031.501	FIELD OFFICE TYPE D	EACH	1	
2101.501	CLEARING	ACRE	4.4	
2101.502	CLEARING	TREE	17	
2101.506	GRUBBING	ACRE	3.8	
2101.507	GRUBBING	TREE	10	
2104.501	REMOVE CULVERT PIPE	LIN. FT.	66	
2104.505	REMOVE BITUMINOUS PAVEMENT	SQ. YD.	5622	
2104.513	SAWING BITUMINOUS PAVEMENT	LIN. FT.	74	
2104.521	SALVAGE FENCE	LIN. FT.	397	
0557.603	INSTALL FENCE	LIN. FT.	252	
2104.521	SALVAGE CULV. PIPE	LIN. FT.	112	
2105.000	CONSTRUCTION FABRIC	SQ. YD.	17,900	
2105.501	COMMON EXCAVATION	CU. YD.	50,261	
2105.505	MUCK EXCAVATION	CU. YD.	8,778	
2105.511	COMMON CHANNEL EXCAVATION	CU. YD.	2537	
2105.521	GRANULAR BORROW (E.V.)	CU. YD.	72,721	
2105.535	SALVAGE TOPSOIL (L.V.)	CU. YD.	3,673	
2130.501	WATER	M-GAL.	100	
2211.503	AGGREGATE BASE PLACED, CLASS 5	CU. YD.	6164	
2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	486	
2331.510	BINDER COURSE MIXTURE	TON	4000	
2331.514	BASE COURSE MIXTURE	TON	6115	
2331.531	TEMPORARY LANE MARKING	ROAD STATION	500	
2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	184	
2341.508	WEARING COURSE MIXTURE	TON	2975	
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL.	3670	
2501.511	15" CM PIPE CULVERT	LIN. FT.	196	
2501.515	15" CM PIPE APRONS	EACH	4	
2501.515	15" RC PIPE APRONS	EACH	3	
2501.515	48" RC PIPE APRONS	EACH	2	
2501.525	22" SPAN RC PIPE-ARCH APRONS	EACH	2	
2501.525	44" SPAN RC PIPE-ARCH APRONS	EACH	2	
2501.525	51" SPAN RC PIPE-ARCH APRONS	EACH	2	
2501.561	48" RC PIPE CULVERT DESIGN 3006 D	LIN. FT.	82	
2501.521	22" SPAN RC PIPE-ARCH CULVERT	LIN. FT.	78	
2501.521	44" SPAN RC PIPE-ARCH CULVERT	LIN. FT.	84	
2501.521	51" SPAN RC PIPE-ARCH CULVERT	LIN. FT.	88	
2503.541	12" RC PIPE SEWER, DESIGN 3006 D CL III	LIN. FT.	67	
2503.541	15" RC PIPE SEWER, DESIGN 3006 D CL III	LIN. FT.	143	
2506.507	CONSTRUCT CATCH BASINS, DESIGN C OR G	LIN. FT.	17.5	
2506.511	RECONSTRUCT MANHOLE	LIN. FT.	3	
2506.516	CASTING ASSEMBLIES	EACH	4	
2506.522	ADJ. FRAME AND RING CASTINGS	EACH	1	
2521.501	4" CONCRETE WALK	SQ. FT.	2730	
2531.501	CONCRETE CURB & GUTTER DESIGN B-612	LIN. FT.	3417	
2531.503	CONCRETE MEDIAN	SQ. YD.	27	
2545.521	3" RIGID STEEL CONDUIT - SIGNAL	LIN. FT.	70	
2545.553	PULL BOXES - SIGNALS	EACH	1	
2575.501	ROADSIDE SEEDING	ACRE	11	
2575.502	SEED MIXTURE #3	POUND	500	
2575.505	SODDING	SQ. YD.	4025	
2575.511	MULCH MATERIAL TYPE #1	TON	22	
2575.519	DISC. ANCHORING	ACRE	11	
2575.531	COMMERCIAL FERTILIZER, ANALYSIS 10-10-10	TON	3	
0575.602	HAY OR STRAW BALES	EACH	40	

- INCLUDES 3728 C.Y. SUB CUT FOR COMPACTION AND 3351 C.Y. SURCHARGE REMOVAL.
- FOR DITCH CONSTRUCTION RT. STATION 108+26
- INCLUDES 6702 C.Y. FOR SURCHARGE STA. 70+00 TO 82+00
- FROM EXCESS MUCK MATERIAL FOR USE AS TOPSOIL COVERING
- PROVIDED FOR DUST CONTROL AS DIRECTED BY THE ENGINEER
- INCLUDES 348 C.Y. FOR 38TH AVE CONNECTION AND 159 C.Y. FOR RT. TURN LANE
- INCLUDES 135 TON FOR 38TH AVE CONNECTION AND 98 TON FOR RT. TURN LANE
- INCLUDES 207 TON FOR 38TH AVE CONNECTION AND 152 TON FOR RT. TURN LANE
- INCLUDES QUANTITY FOR 2341 WEARING COURSE
- INCLUDES 120 TON FOR 38TH AVE CONNECTION AND 70 TON FOR RT. TURN LANE
- FOR MEDIAN CONSTRUCTION
- FOR MEDIAN NOSE
- PROVIDED FOR FUTURE SIGNAL CONSTRUCTION
- PROVIDED FOR EROSION CONTROL

STANDARD PLATES

PLATE NO.	DESCRIPTION
0004 A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000 I	REINFORCED CONCRETE PIPE
3008 D	GASKET JOINT FOR R.C. PIPE
3014 J	REINFORCED CONCRETE PIPE ARCH DETAIL
3100 F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110 F	CONCRETE APRON FOR REINFORCED CONCRETE PIPE-ARCH
2145 C	CONCRETE PIPE TIES
4002 E	MANHOLE OR CATCH BASIN
4006 K	MANHOLE OR CATCH BASIN
4101 C	RING CASTING FOR MANHOLE OR CATCH BASIN
4126 E	CATCH BASIN FRAME CASTING
4140 D	SPECIAL GRATE CASTINGS FOR CATCH BASIN
4149 C	GRATE CASTING FOR CATCH BASIN
4161 F	CURB BOX CASTING FOR CATCH BASIN
7100 F	CONCRETE CURB & GUTTER
7111 G	INSTALLATION & REINFORCEMENT OF CATCH BASIN CASTINGS
8000 I	STANDARD BARRICADES
9102 C	SODDING AT PIPE CULVERT ENDS

BASIS OF PLANNED QUANTITIES

- 2331 PLANT MIXED BASE COURSE. BITUMINOUS MIXTURE 110 LBS./S.Y. PER 1" THICKNESS. BITUMINOUS MATERIAL FOR MIXTURE 4.8% BY WT.
- 2331 PLANT MIXED BINDER COURSE. BITUMINOUS MIXTURE 110 LBS./S.Y. PER 1" THICKNESS. BITUMINOUS MATERIAL FOR MIXTURE 4.8% BY WT.
- 2341 PLANT MIXED WEARING COURSE. BITUMINOUS MIXTURE 110 LBS./S.Y. PER 1" THICKNESS. BITUMINOUS MATERIAL FOR MIXTURE 6.2% BY WT.
- 2357 BITUMINOUS MATERIAL FOR TACK COAT 0.05 GAL. PER S.Y.
- 2575 COMMERCIAL FERTILIZER, ANALYSIS 10-10-10, 500#/AC. ON ALL SOD AREAS & SEED AREAS.
- 2575 ROADSIDE SEEDING BASED ON HORIZONTAL MEASUREMENT PLUS 10% SEED MIXTURE NO. 3 45 LBS. PER ACRE.

SPECIAL DETAILS

EXCAVATED MUCK MATERIAL SHALL BE USED TO CONSTRUCT ENDSLOPES ADJACENT TO MUCK EXCAVATION AREAS AND AS TOPSOIL COVERING THROUGHOUT THE PROJECT.

APPROXIMATELY 3,673 C.Y. OF EXCESS MUCK MATERIAL SHALL BE SPREAD TO A UNIFORM 3" TO 4" DEPTH OVER THE LENGTH OF THE PROJECT. THIS WORK WILL BE COMPENSATED FOR UNDER ITEM 2105.535 SALVAGE TOPSOIL.

ANY MUCK MATERIAL STOCKPILED ADJACENT TO EXCAVATION AREAS DURING CONSTRUCTION, SHALL BE REMOVED BY THE CONTRACTOR FROM LOW LANDS AND WET LANDS PRIOR TO FINISHING OPERATIONS TO APPROXIMATELY THE ORIGINAL GROUND ELEVATIONS.

THE CONTRACTOR SHALL DISPOSE OF EXCESS MUCK MATERIAL IN OTHER AREAS AS APPROVED BY THE ENGINEER. THIS SHALL BE CONSIDERED AS INCIDENTAL TO MUCK EXCAVATION OR CHANNEL EXCAVATION.

EXCESS GRANULAR MATERIAL FROM CHANNEL EXCAVATION SHALL BE REMOVED FROM SITE AND BE USED AS FILL IN ROADWAY CONSTRUCTION. THIS SHALL BE CONSIDERED AS INCIDENTAL TO CHANNEL EXCAVATION.

MATERIAL TO SURCHARGE SUBGRADE FROM STA. 69+00 TO STA. 82+70 IS INCLUDED IN GRANULAR BORROW QUANTITY. REMOVAL OF EXCESS SURCHARGE MATERIAL IS INCLUDED IN GRANULAR BORROW QUANTITY. REMOVAL OF EXCESS SURCHARGE MATERIAL IS INCLUDED WITH COMMON EXCAVATION QUANTITY AND WILL BE USED ON SLOPES AND SUBGRADE STATION 64+00 TO 89+00 AT THE DIRECTION OF THE ENGINEER.

- SUGGESTED PROCEDURE FOR ROADWAY CONSTRUCTION AND FABRIC PLACEMENT STA. 69+00 TO 83+00. (CONTRACTOR MAY MODIFY THIS PROCEDURE WITH ENGINEERS APPROVAL)
- PLACE FABRIC AND FIRST LIFT OF FILL TO STA. 70+65
  - EXCAVATE MUCK FOR CULVERT FOUNDATION STA. 70+75
  - PLACE CONSTRUCTION FABRIC IN TRENCH AND BACK FILL WITH GRANULAR MATERIAL.
  - PLACE CONSTRUCTION FABRIC 70+85 TO 72+35 AND FILL WITH GRANULAR MATERIAL TO GROUND LEVEL ELEVATION.
  - PLACE FABRIC 71+00 TO 82+20 AND COMPLETE FIRST LIFT OF FILL FROM 70+65 TO 82+20.
  - Place fill 69+00 TO 83+00 IN 4 LIFTS, ALLOWING 5 TO 10 DAYS SETTLEMENT BETWEEN LIFTS (SEE SPECIAL PROVISIONS).
  - PLACE TEMPORARY 15" C.M.P. CULVERT STA. 70+75 AFTER FIRST LIFT HAS BEEN PLACED, AT DIRECTION OF ENGINEER.
  - REMOVE TEMPORARY 15" C.M.P. CULVERT AND INSTALL PERMANENT 48" R.C.P. CULVERT AFTER ROADWAY IS CONSTRUCTED TO GRADING GRADE.

CLEARING AND GRUBBING

STATION (TO STATION)	LOC	CLEARING TREE/ACRE	GRUBBING TREE/ACRE
54+27	2'LT	1	1
54+30	6'RT	1	1
54+34	9'RT	1	1
54+42	C	1	1
54+54	8'LT	1	1
54+58	51'LT	1	1
54+66	2'RT	1	1
54+75	11'RT	3	1
55+18	45'LT	1	1
66+12 - 66+40	30-75'LT	0.05	
67+39 - 67+62	33-37'LT	0.05	
67+82 - 69+63	0-66'LT	0.60	
	0-59'RT		
70+80	20'LT	1	
70+82	50'LT	1	
71+25	25'RT		
71+25	30'RT		
71+25	40'RT	1	
71+73	45'LT	1	
71+75	48'LT	1	
74+90 - 75+20	45-58'LT	0.05	
79+39 - 81+65	0-66'LT	0.65	
	0-55'RT		
84+12	31'LT	1	1
84+40 - 84+50	30-40'RT	0.05	0.05
84+90 - 92+72	4'LT90'RT	2.45	2.45
104+00 - 104+25	36-43'LT	0.05	0.05
1 <sup>1</sup> 9+52 - 1 <sup>1</sup> 9+72	30-40'LT	0.05	0.05
7+20 - 8+80	DITCH CON.	0.15	0.15
11+00 - 13+35	RT. 108+26	0.25	0.25
	TOTALS	17.40	10.36

SALVAGE & INSTALL FENCE

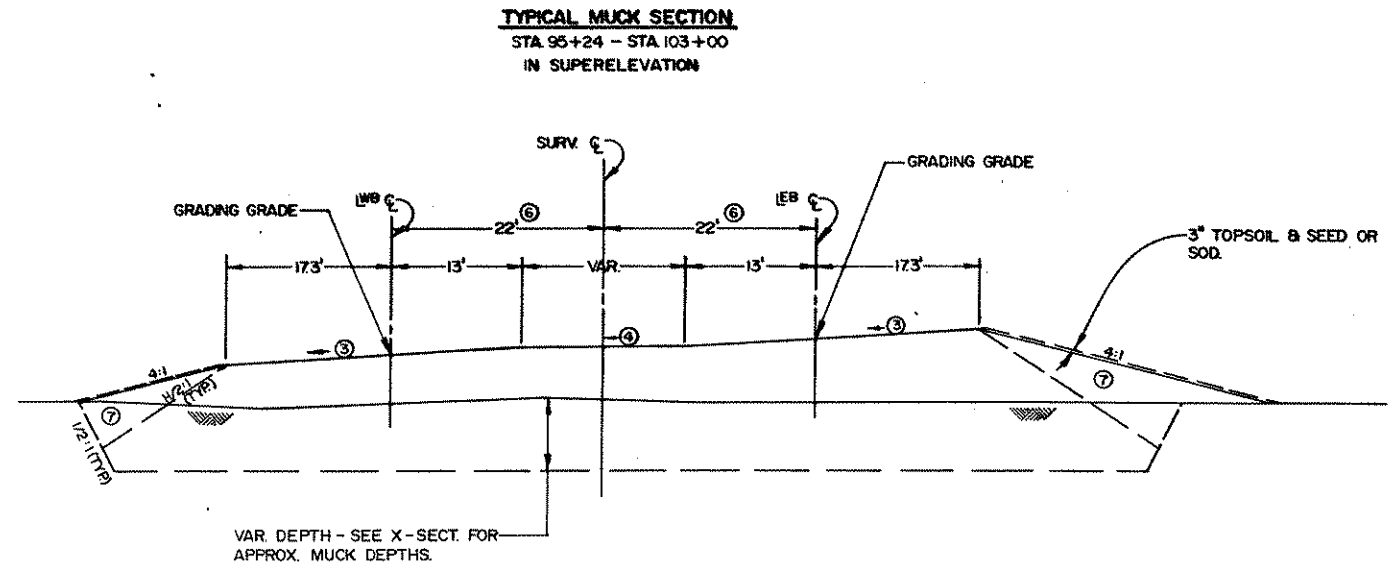
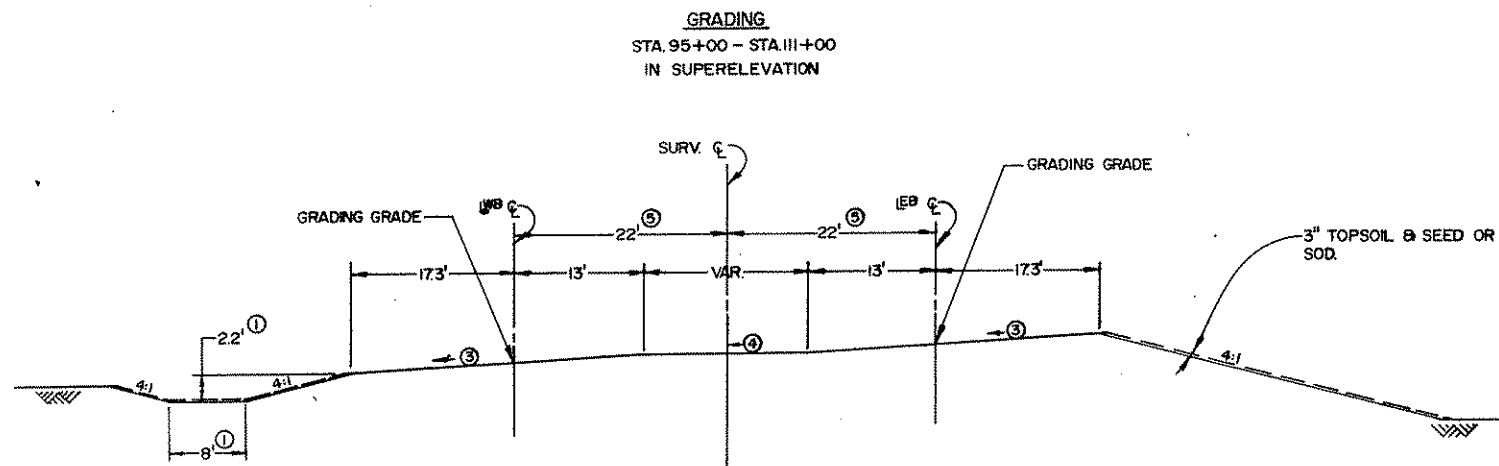
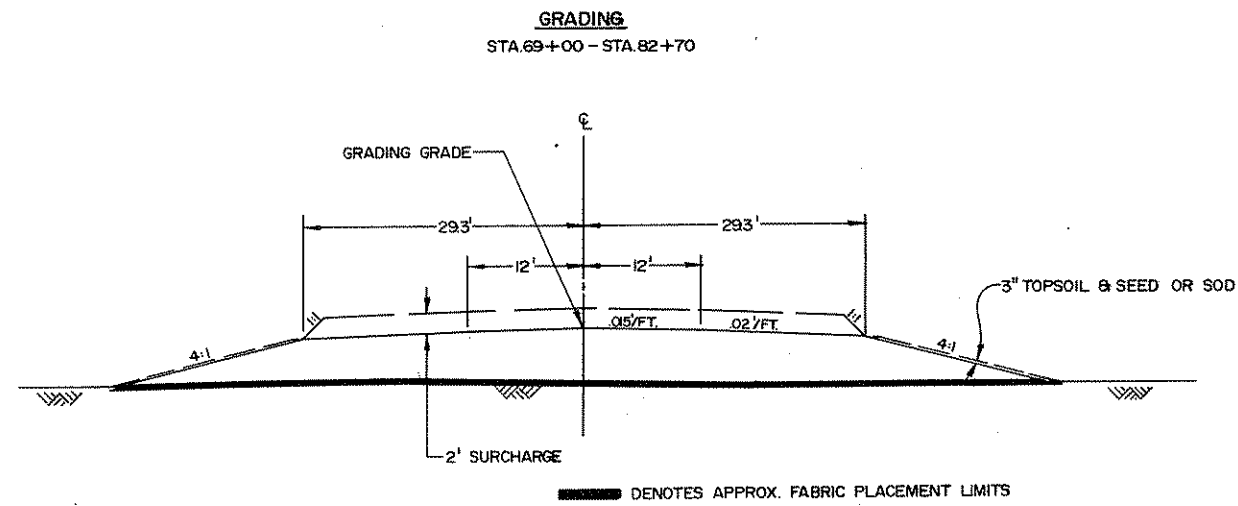
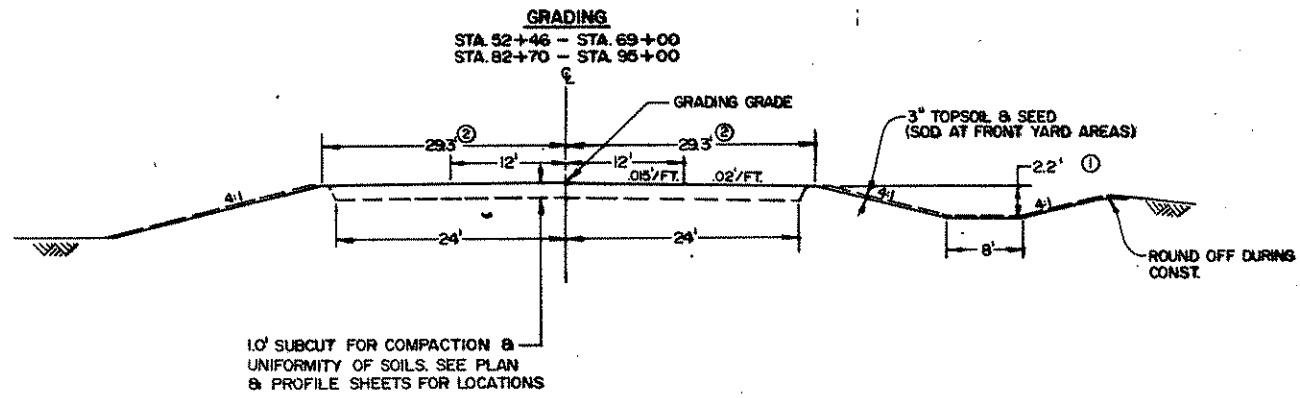
STATION	LOC	SALVAGE	INSTALL	REMARKS
52+84	70'LT 75'RT	145'	0'	LINE FENCE
52+75 TO 52+84	75'RT	9'	9'	
52+75 TO 55+18	75'RT	243'	243'	
TOTALS=		397'	252'	

SODDING

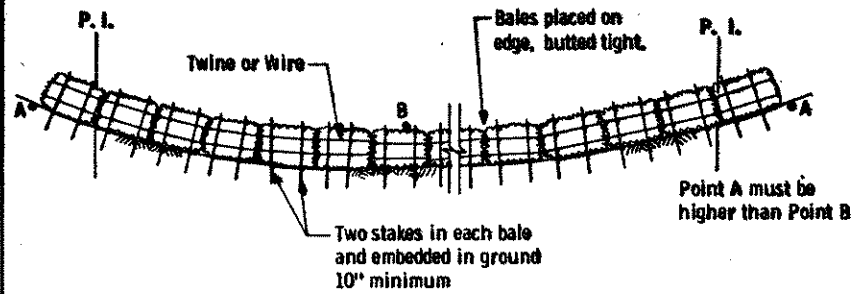
STATION	LOC	S Y
56+40 TO 59+90	MEDIAN	445
69+00 TO 88+00	1	1267
92+00 TO 109+00	1	1133
98+80 TO 100+55	MEDIAN	235
105+30 TO 108+81	MEDIAN	465
1+50 TO 5+30	1 RT. TURN LANE	255
CULV. ENDS		225
TOTALS		4025

**TYPICAL SECTIONS**

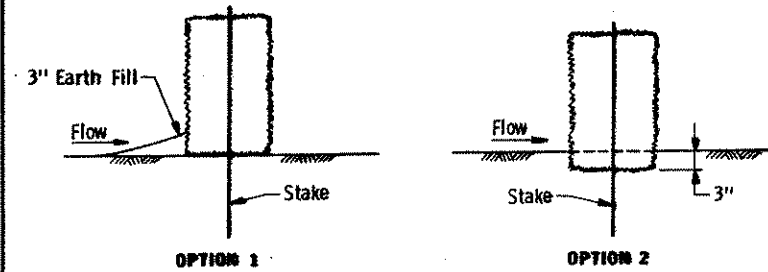
ALL DIMENSIONS NOMINAL



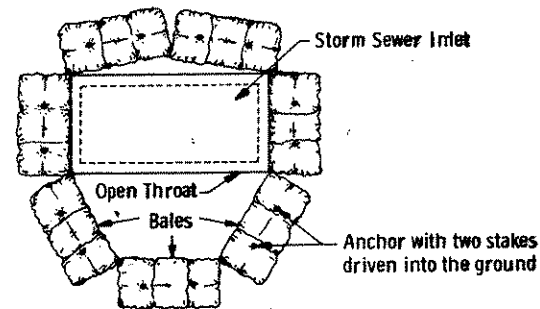
- ① FOR SPECIAL DITCHES SEE PLANS & CROSS SECTIONS
- ② VAR. WIDTH IN ISLAND CONST. AREAS SEE PLAN & PROFILE SHEETS FOR GEOMETRICS & E.B. OR W.B. ALIGN.
- ③ SEE SUPER CHART FOR SLOPE
- ④ VAR. - .015'/FT. IN LT. TURN LN. AREA
- ⑤ TAPERS FROM 22' - 12'  
STA. 95+00 - STA. 100+00  
STA. 106+46.5 - STA. 110+67  
SEE PLAN & PROFILE SHEETS FOR GEOMETRICS
- ⑥ TAPERS FROM 22' - 12'  
STA. 95+00 - STA. 100+00  
SEE PLAN & PROFILE SHEETS FOR GEOMETRICS.
- ⑦ FILL WITH SWAMP EXCAVATION MATERIAL.



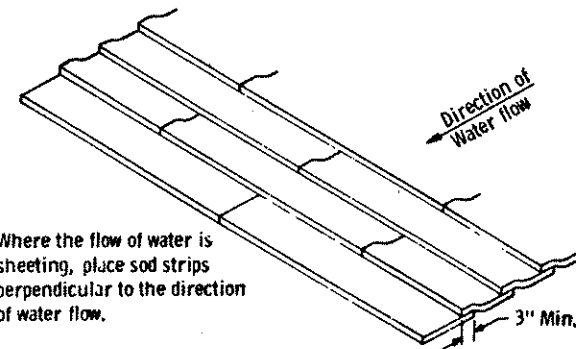
**BALE HAY OR STRAW DITCH CHECK**



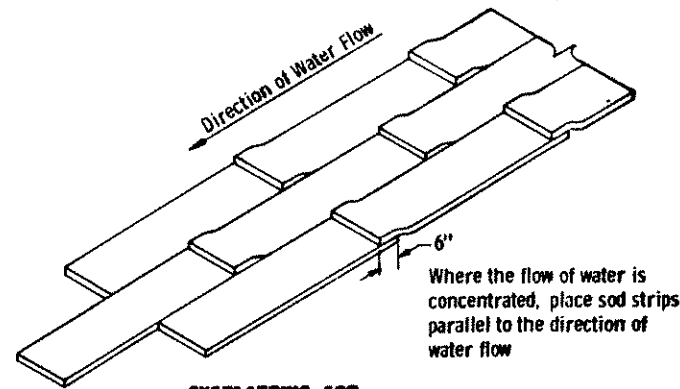
**DITCH CHECK SECTIONS**



**BALE DIVERSION TO PROTECT STORM SEWER INLETS**



**SHINGLING SOD**



**OVERLAPPING SOD**

**SPECIAL SOD PLACEMENT TECHNIQUES**

**STORM SEWER SYSTEM**

NO.	STATION	LOCATION	REMARKS	TYPE	DESIGN	LIN. FT.	REMOVE SEWER PIPE	TOP	OUTLET	CASTING ASSEMBLY	DRAINS TO	RCP SEWER					
												12" CL. I.	15" CL. I.				
1	100+00	12.9' LT EBL	F&L 15" RC APRON	CB	C OR G	4.2	-	868.93	864.50	B	FONDIING AREA		44'				
2	101+50	12.9' LT EBL	F&L 15" RC APRON	CB	C OR G	5.0	-	869.31	864.14	B	FONDIING AREA		58'				
3	101+50	54' RT EBL	CONST. CB IN DEPRESSED MEDIAN	CB	C OR G	3.8	-	868.35	864.68	A	CB 4	67'					
4	108+00	12.9' LT EBL	F&L 15" RC APRON	CB	C OR G	4.5	-	868.71	864.00	B	DITCH		41'				
TOTALS												17.5				67'	143'

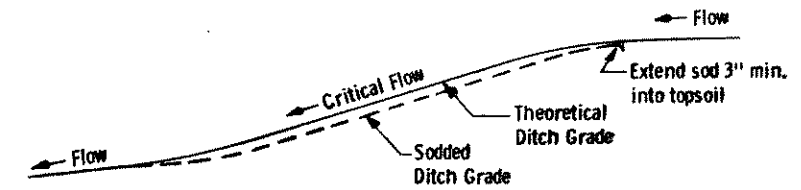
**CASTING ASSEMBLIES**

ASSEMBLY	ITEM	CASTING NO.	QUANTITY
A	FRAME GRATE	700-7 721	1
B	FRAME GRATE CURB BOX	801 810 821 B	3

**DRAINAGE**

STATION	LOCATION	IN PLACE	REMARKS	REMOVE																			
				PORT. CULV.		CONC. STRUCT.		SALVAGE CULV.		SOD-DING		RIP-RAP		22" SPAN RCP-A		48" RCP		44" SPAN RCP-A		51" SPAN RCP-A		15" CMP	
				LIN. FT.	CUL. YD.	LIN. FT.	CUL. YD.	LIN. FT.	CUL. YD.	SQ. YD.	CUL. YD.	LIN. FT. AP.	LIN. FT. AP.	LIN. FT. AP.	LIN. FT. AP.	LIN. FT. AP.	LIN. FT. AP.	LIN. FT. AP.	LIN. FT. AP.	LIN. FT. AP.	LIN. FT. AP.	LIN. FT. AP.	
53+50	E	-						29					78	2									
61+00	LT.	-	ENT.					17													42	2	
68+00	LT.	-	ENT. NO CULV. REQ.																				
70+75	E	-					112	50					82	2							112		
81+90	LT.	-	ENT.					17													42	2	
90+17	LT.	-	RD. APR. NO CULV. REQ.																				
97+00	E	-						50								84	2						
108+26	E	36" X 86" CMP		66			58														88	2	
81+00	E	-	SALVAGE FROM STA. 97+00	66												128	2						
TOTALS				66			112	221					78	2	82	2	84	2	88	2	196	4	

① FOR TEMPORARY USE UNTIL ROADWAY CONSTRUCTED TO GRADING GRADE AND PERMANENT PLACEMENT OF 48" RCP CULV.  
NOTE: TIE ALL SECTIONS RCP & RCP-A CULVERT EXCEPT 22" SPAN RCP-A TIE APRON AND 2 SECTIONS OF 22" SPAN RCP-A CULVERT.



NOTE: APPLIES TO DITCH GRADES 2.0% OR GREATER.

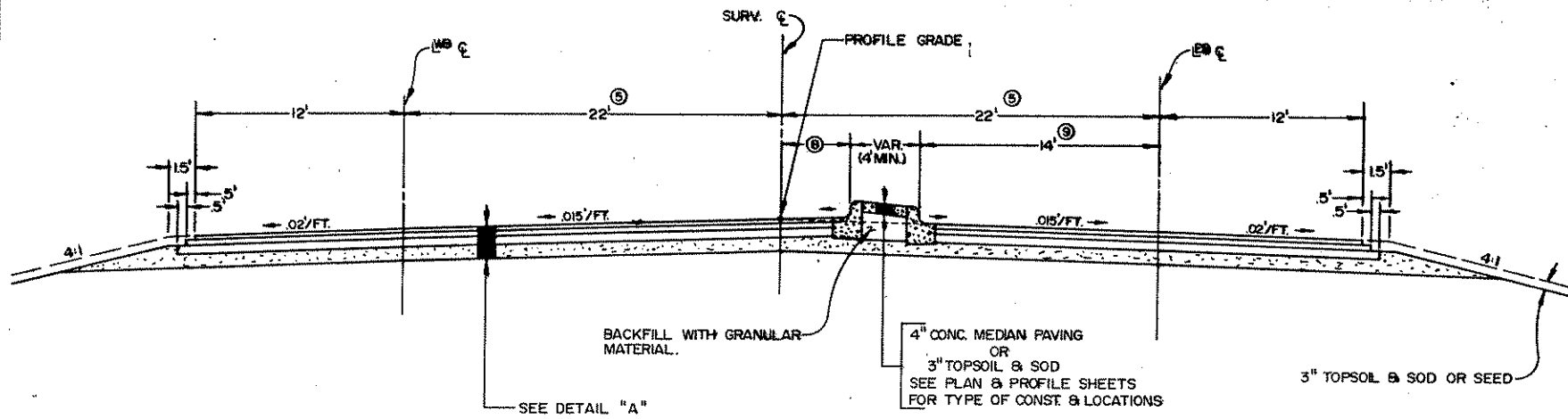
**DITCH PROFILE**

**SODDED DITCH DETAILS**

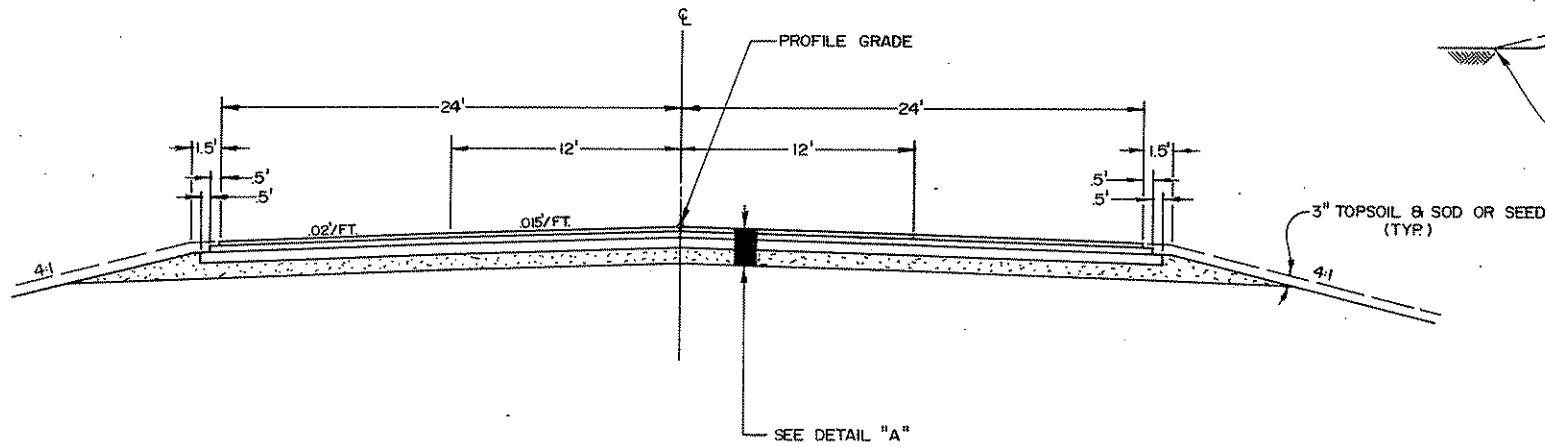
ALL DIMENSIONS NOMINAL

TYPICAL SECTIONS

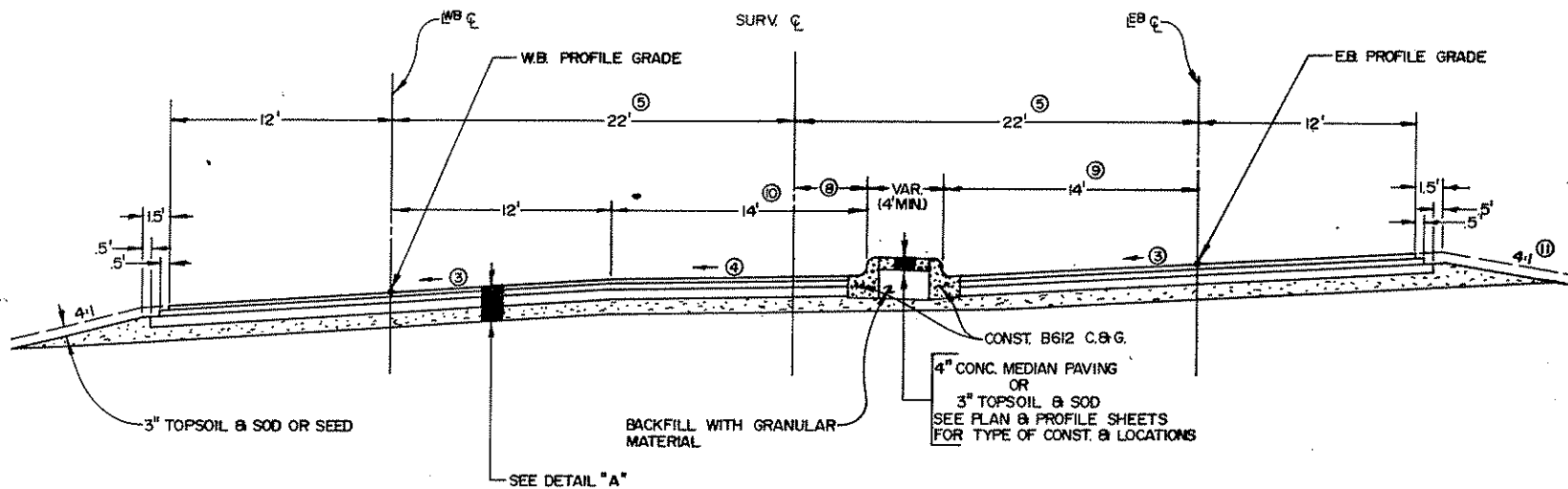
BASE & BITUMINOUS SECTION  
STA. 52+48 - STA. 63+75



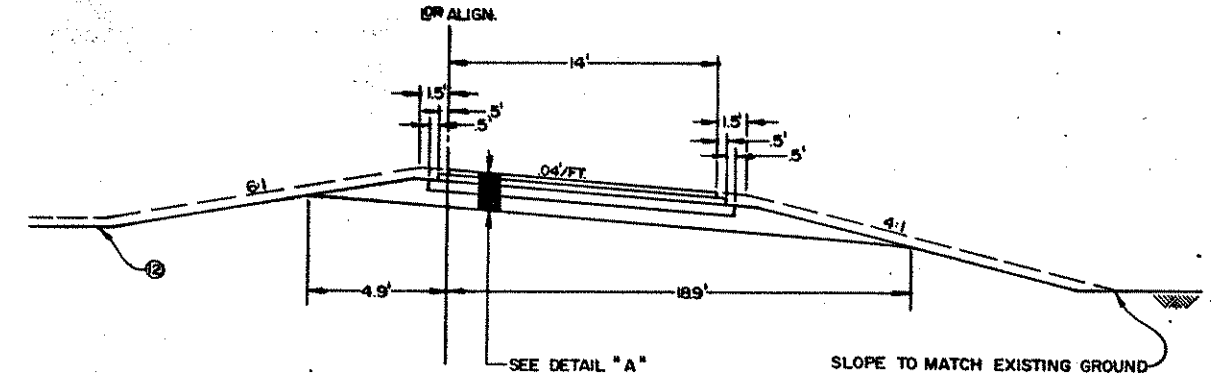
BASE & BITUMINOUS SECTION  
STA. 63+75 - STA. 95+00



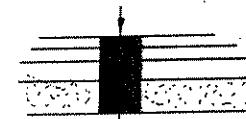
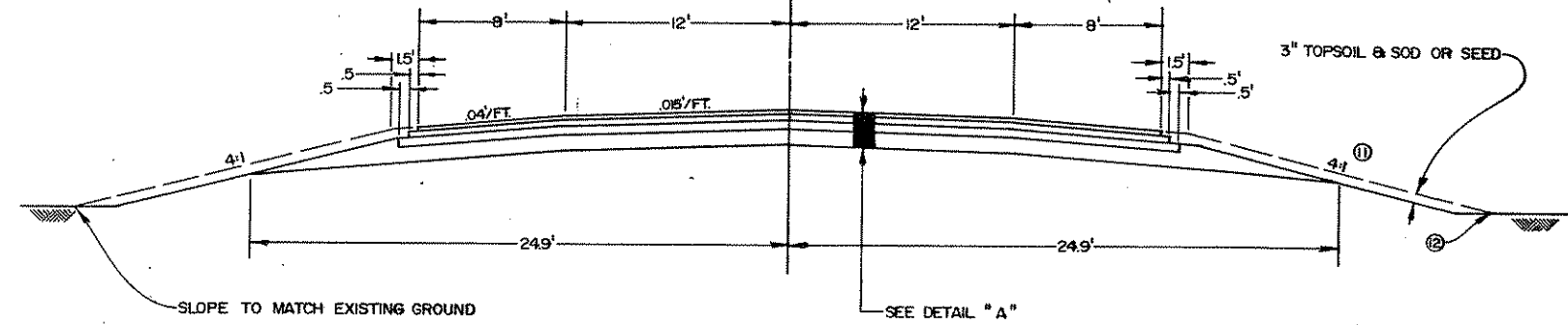
BASE & BITUMINOUS SECTION  
STA. 95+00 - STA. 111+00



OR FREE RIGHT LANE  
GRADING, BASE & BITUMINOUS SECTION



ROAD APPROACH  
GRADING, BASE & BITUMINOUS SECTION  
STA. 101+00 RT.



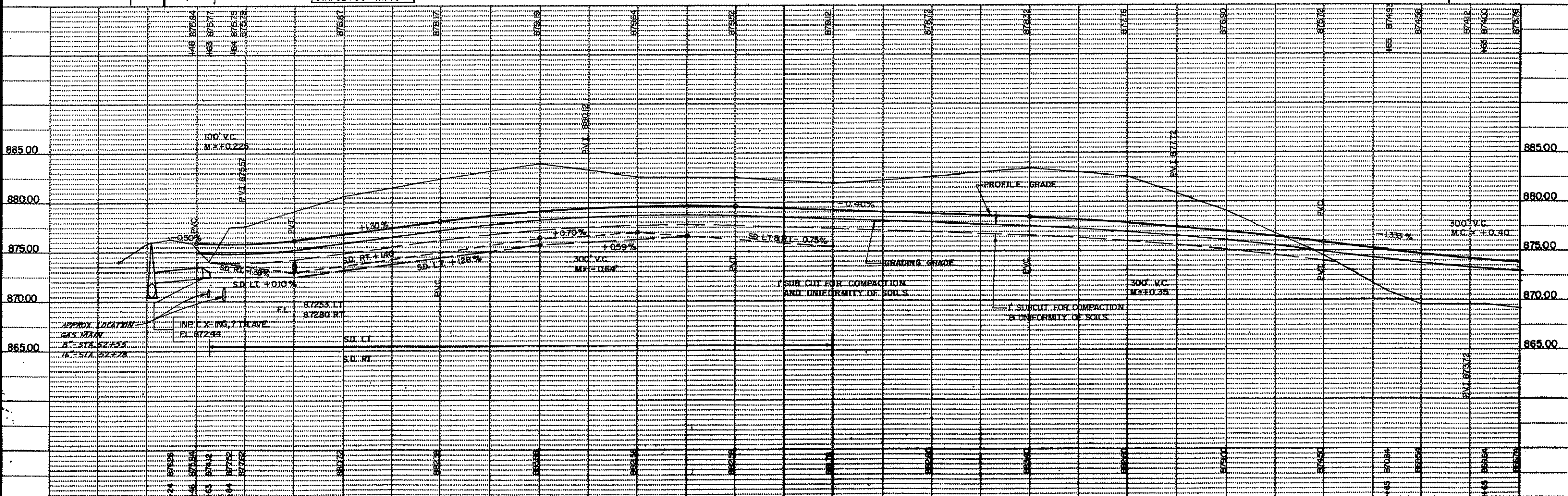
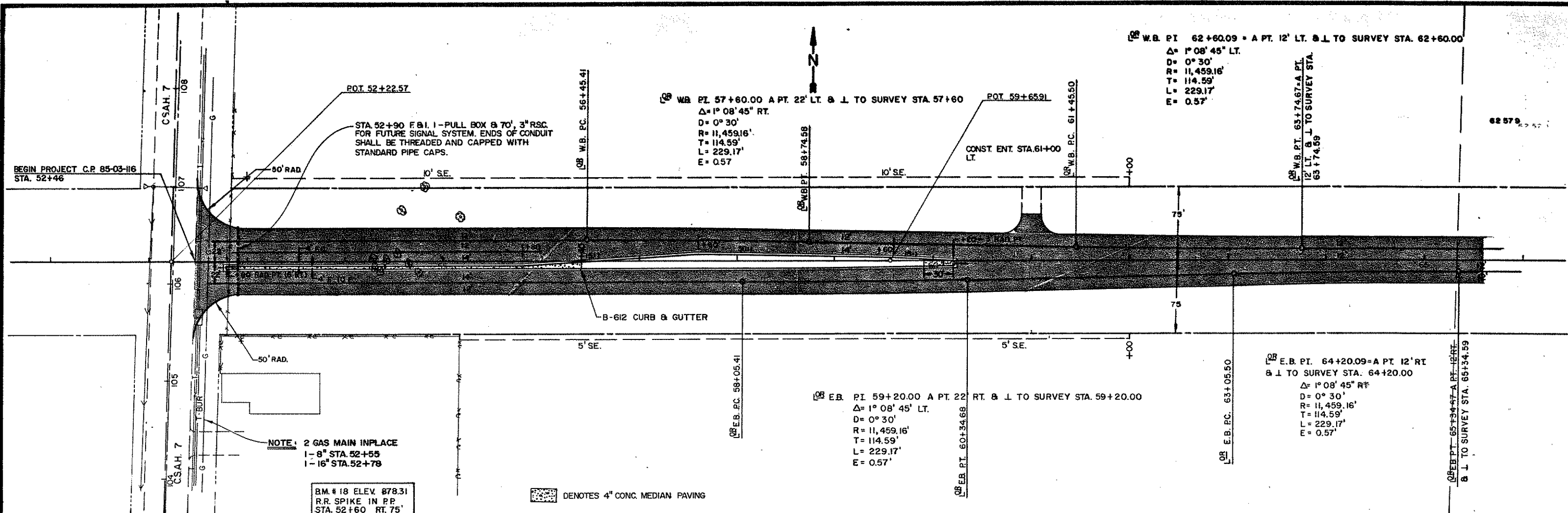
1 1/2" 2341 WEARING COURSE  
2" 2331 BINDER COURSE  
3" 2331 BASE COURSE  
5" 2211 AGGREGATE BASE CL.-5A

DETAIL "A"

- ③ SEE SUPER CHART FOR SLOPE
- ④ VAR. - .015'/FT. IN LT. TURN LN. AREA
- ⑤ TAPERS FROM 22' - 12'  
STA. 95+00 - STA. 100+00  
STA. 106+46.5 - STA. 110+67  
SEE PLAN & PROFILE SHEETS FOR GEOMETRICS

- ⑥ VARIES FROM 4' RT. TO 8' LT.  
SEE PLAN & PROFILE SHEETS  
FOR ISLAND GEOMETRICS.
- ⑦ APPLIES IN ISLAND CONST. AREAS ONLY.
- ⑧ VARIES FROM 2' TO 14'
- ⑨ 6:1 IN DEPRESSED MEDIAN CONST. AREA.
- ⑩ SLOPE TO MATCH EXISTING GROUND  
SEE ROAD APPROACH X-SECTIONS  
FOR DEPRESSED MEDIAN CONST.





TYPING FOR - SINGLE PLAN - NOTES - 1953

B.M. #20 ELEV. 874.54  
DBL. SPIKE IN STUMP  
STA. 84+50 LT. 65'



B.M. #21 ELEV. 871.63  
DBL. SPIKE IN P.R.  
STA. 93+00 RT. 90'

140 TH. AVE. NW.

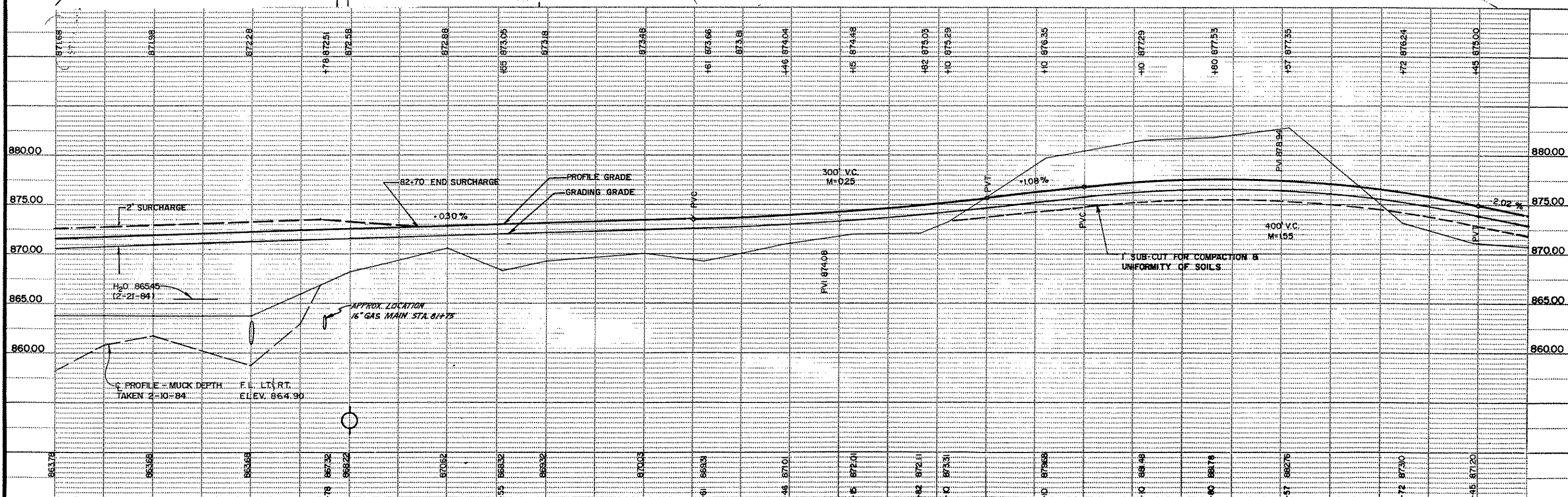
CONST. STREET  
APPROACH  
STA. 90+17 LT.

PQT. 92+35.15

CONST. ENT. STA. 81+90 LT.

NOTE: 16" GAS MAIN INPLACE  
STA. 81+75 ±

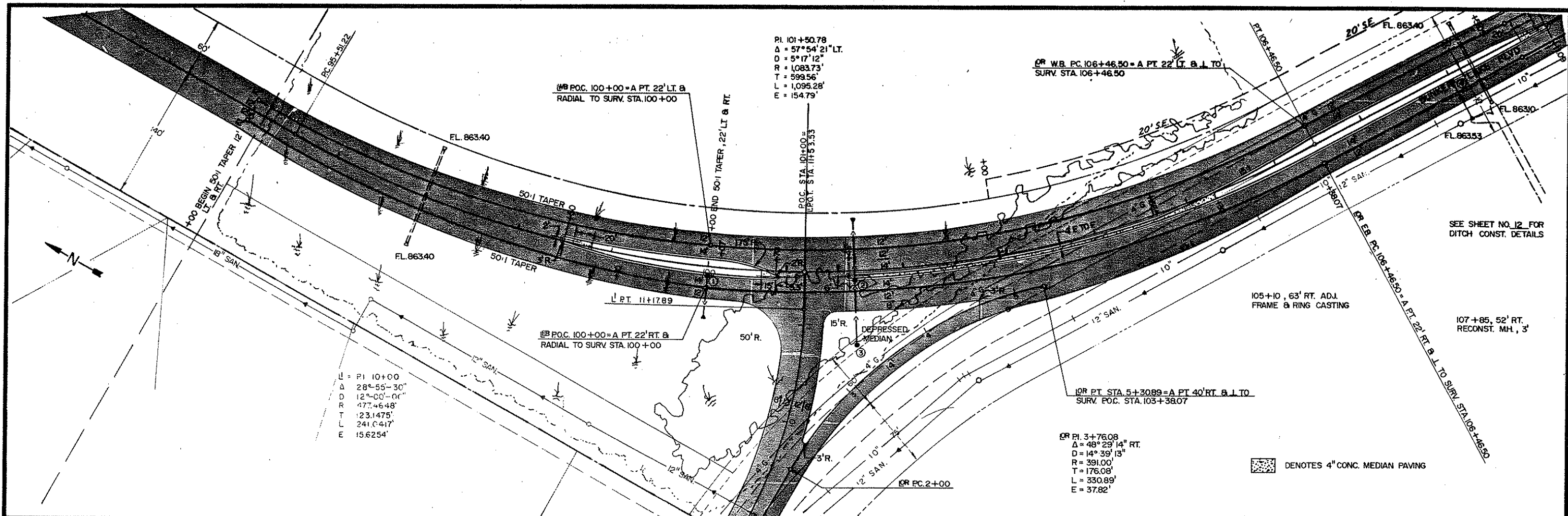
PI. 80+00  
Δ = 91° 22' 28"  
D = 6° 15'  
R = 916.73'  
T = 938.99'  
L = 1461.99'  
E = 395.56'



ILLINOIS ROAD & BRIDGE BUREAU - PROFILE - 1924







L = PI 10+00  
 Δ = 28° 55' 30"  
 D = 12° 00' 00"  
 R = 477.4648'  
 T = 23.1475'  
 L = 241.0417'  
 E = 15.6254'

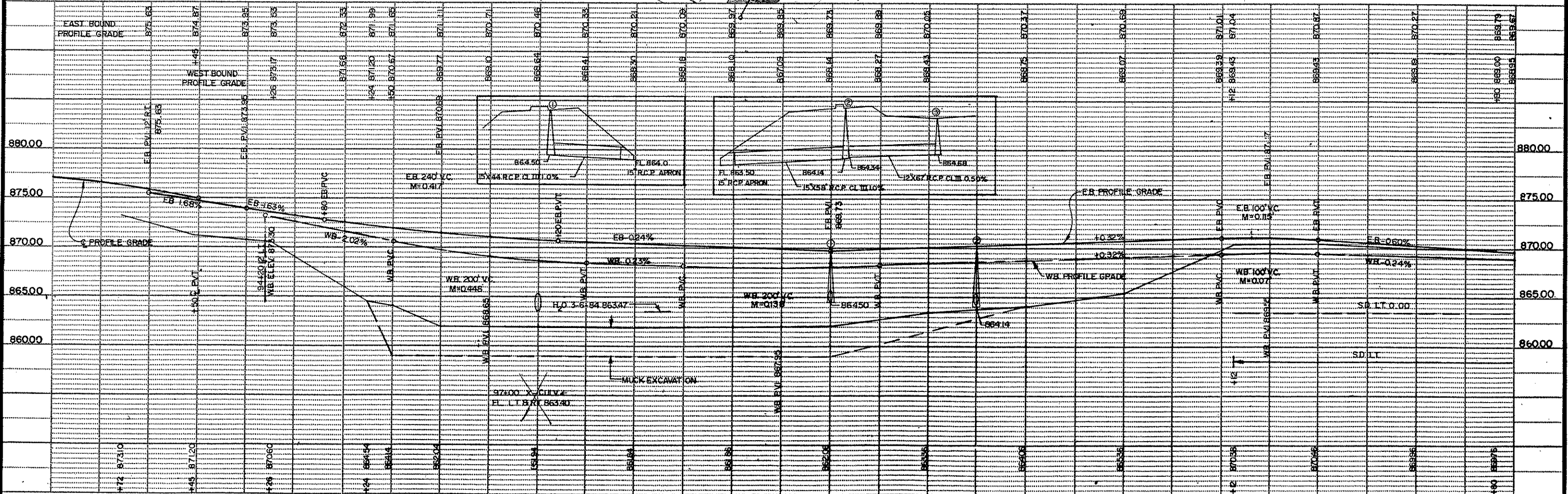
OR PI. 3+7608  
 Δ = 48° 29' 14" RT.  
 D = 14° 39' 13"  
 R = 391.00'  
 T = 176.08'  
 L = 330.89'  
 E = 37.82'

DENOTES 4" CONC. MEDIAN PAVING

SEE SHEET NO. 12 FOR DITCH CONST. DETAILS

105+10, 63' RT. ADJ. FRAME & RING CASTING

107+85, 52' RT. RECONST. MH, 3'



ELEVATION POST - SINGLE PLAN - PROFILE - 1024

B.M. #23, ELEV. 871.82  
 TOP HYD., 112th AVE.  
 & CR. #116, STA. 112+00  
 RT.

OR WB P.I. 107+61.09 = A PT. 22' LT.  
 & L. TO SURV. STA. 107+61.09  
 $\Delta = 1^{\circ}08'45''$  LT.  
 $D = 0^{\circ}30'$   
 $R = 11,459.16'$   
 $T = 114.59'$   
 $L = 229.17'$   
 $E = 0.57'$

OR EB P.I. 107+61.09 = A PT. 22' RT.  
 & L. TO SURV. STA. 107+61.09  
 $\Delta = 1^{\circ}08'45''$  RT.  
 $D = 0^{\circ}30'$   
 $R = 11,459.16'$   
 $T = 114.59'$   
 $L = 229.17'$   
 $E = 0.57'$


OR WB P.O.T. III+00.06 = A PT. 15.22' LT. OF  
 & L. TO SURV. STA. III+00

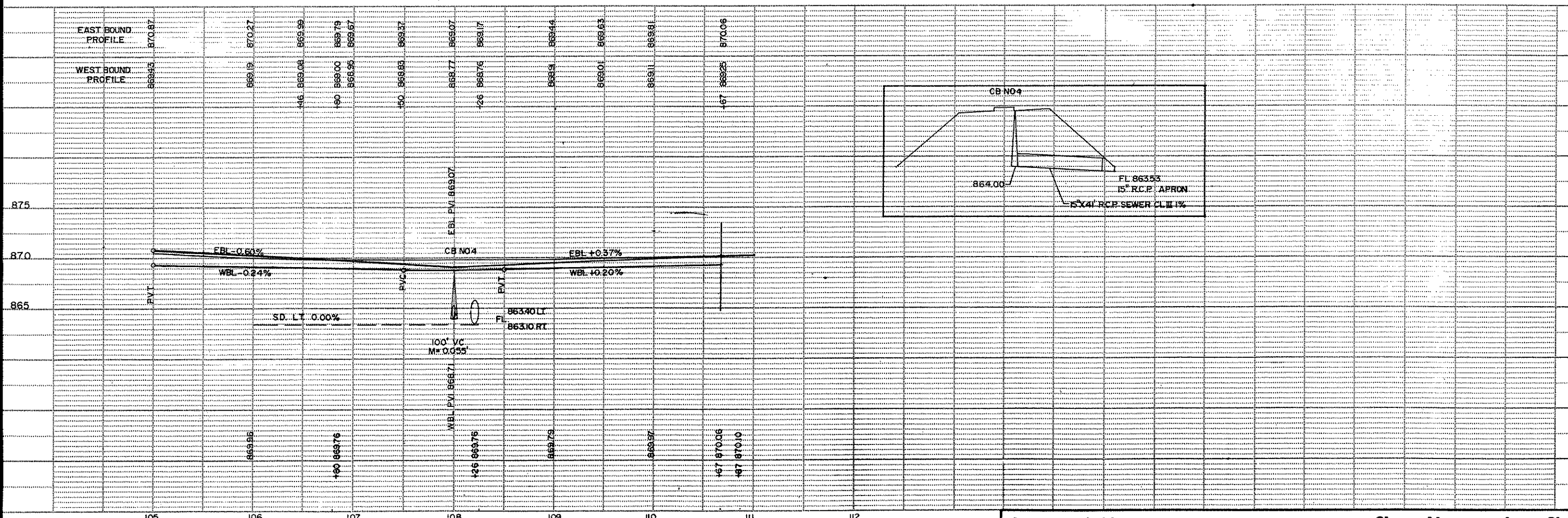
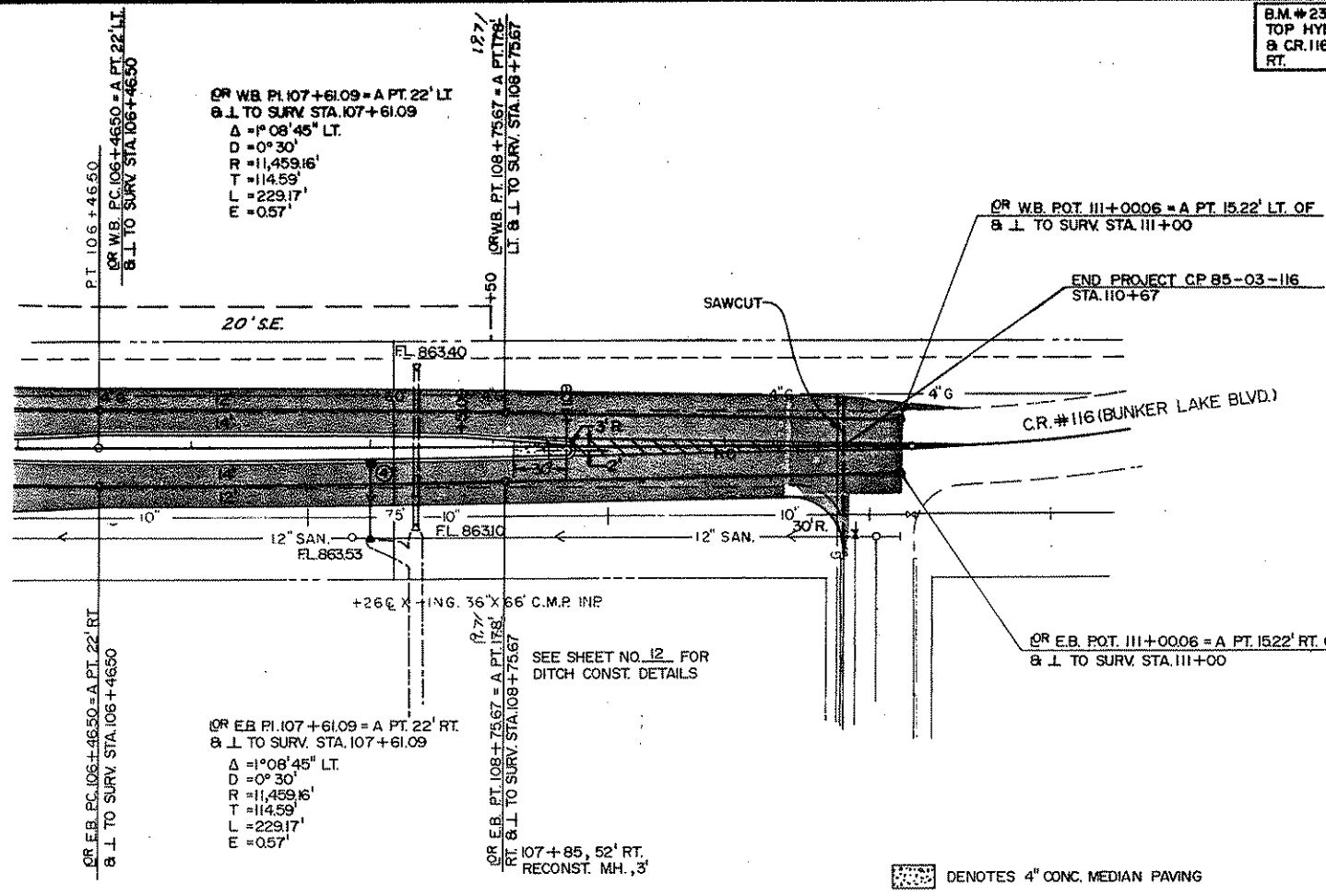
END PROJECT CP 85-03-116  
 STA. 110+67

OR E.B. P.O.T. III+00.06 = A PT. 15.22' RT. OF  
 & L. TO SURV. STA. III+00

SEE SHEET NO. 12 FOR  
 DITCH CONST. DETAILS

107+85, 52' RT.  
 RECONST. MH, 3'

 DENOTES 4" CONC. MEDIAN PAVING



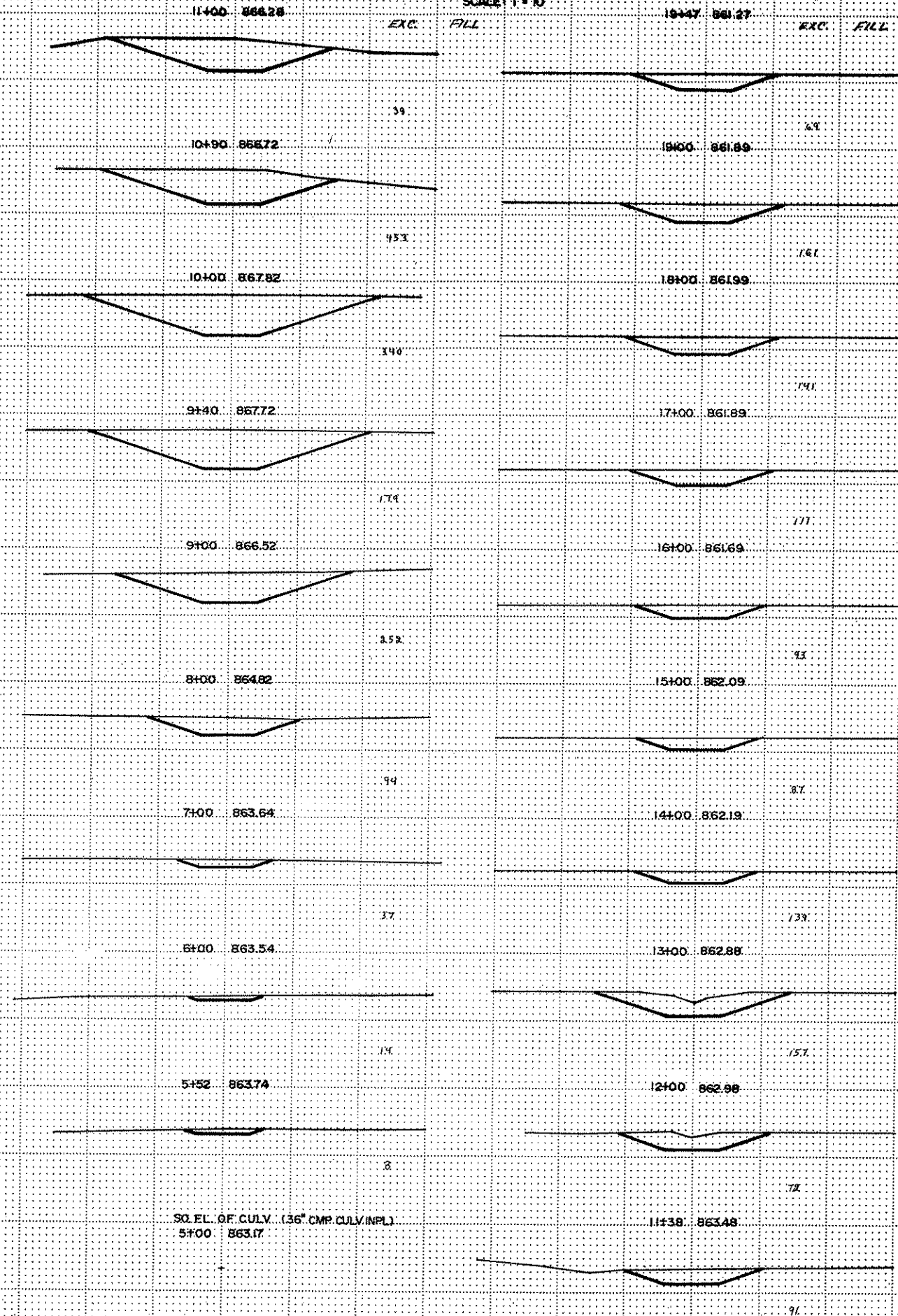
ELEVATION POST - SINGLE PLAN - PROFILE - 1/2\"/>



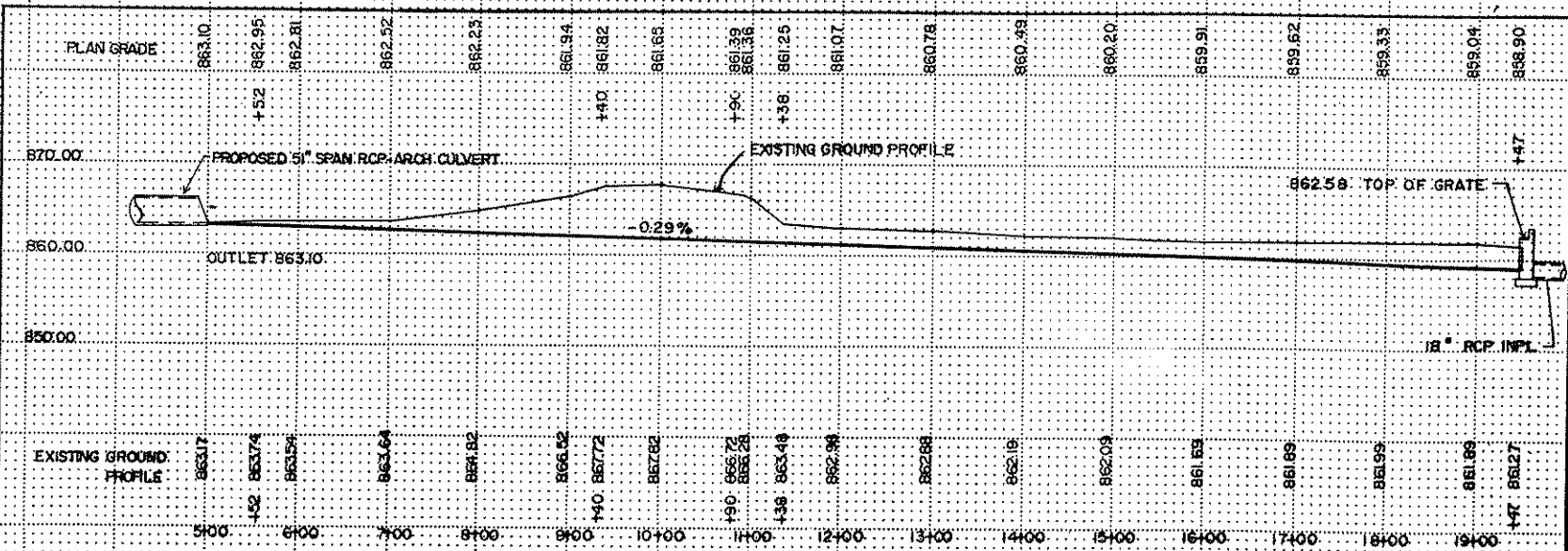
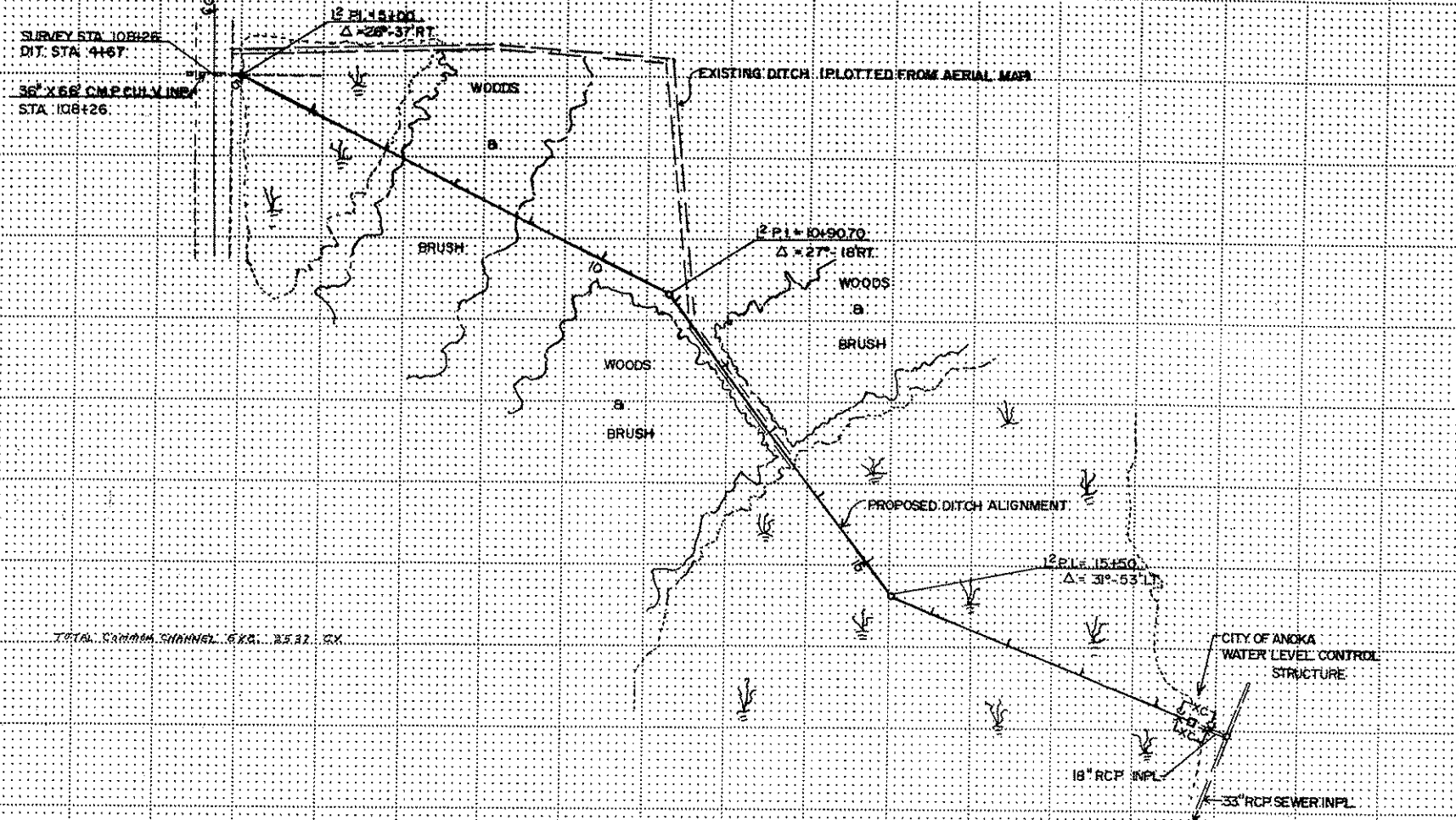


**DITCH CROSS SECTIONS**

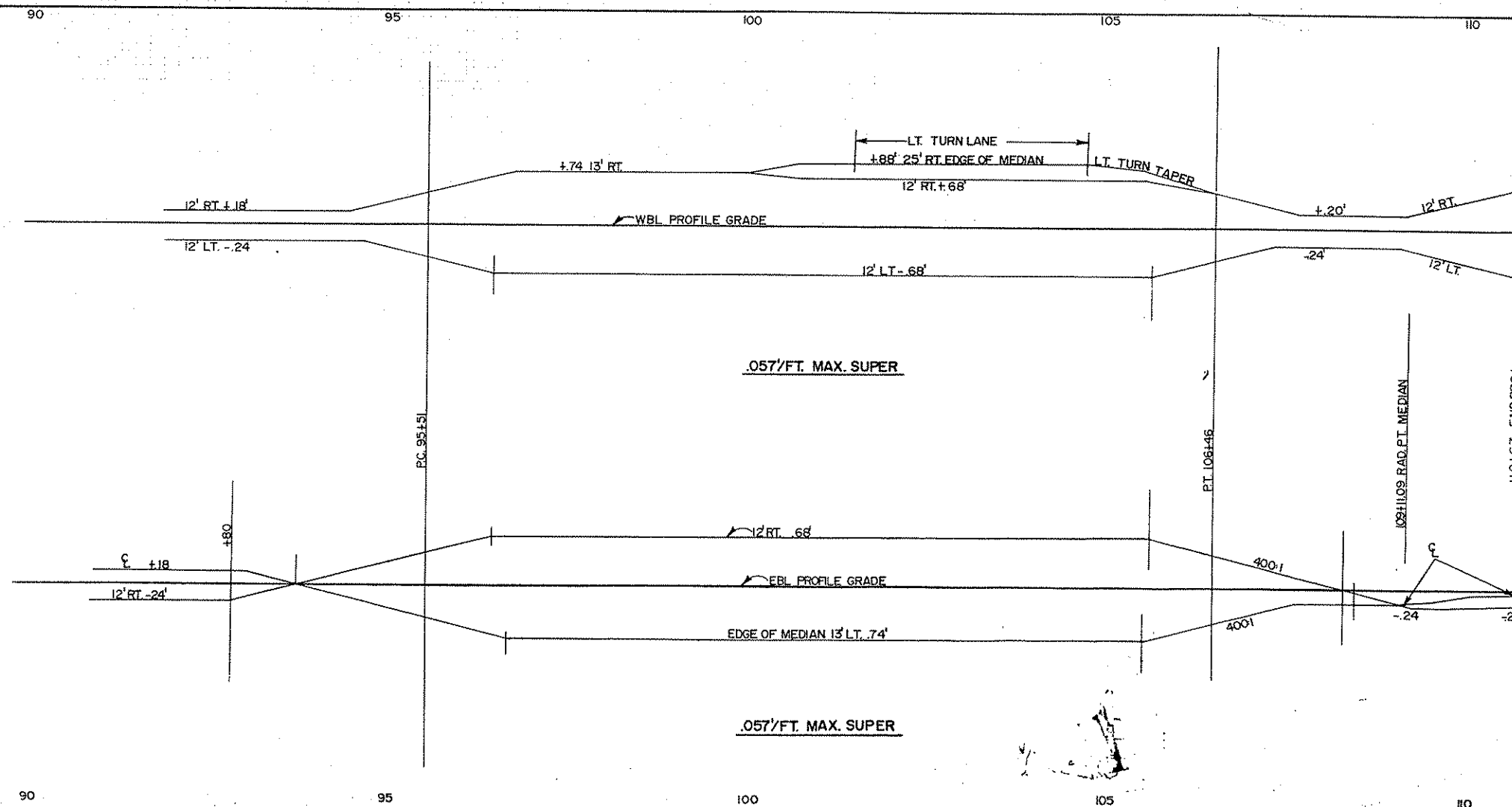
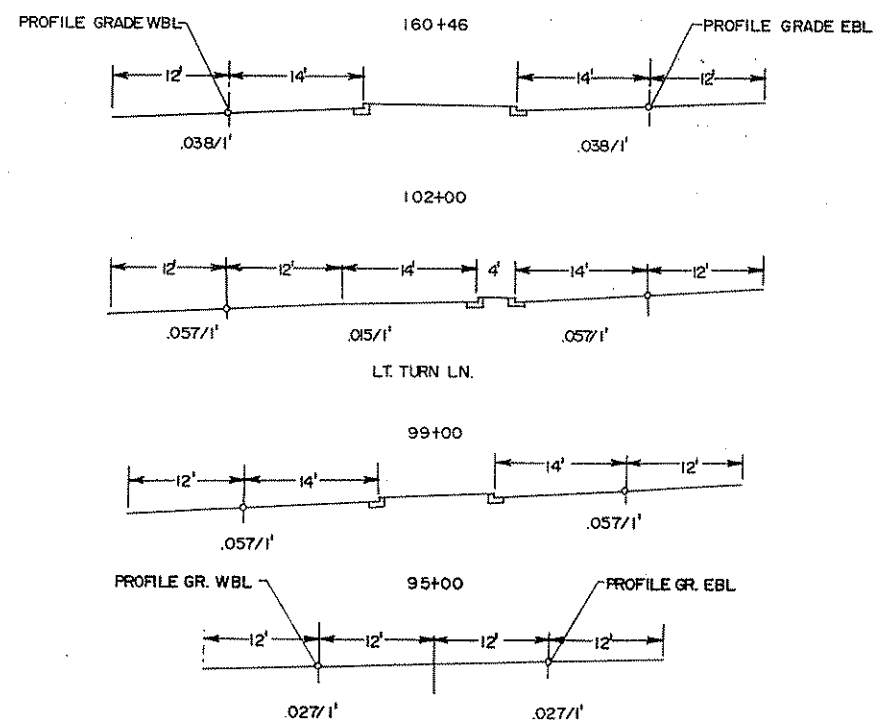
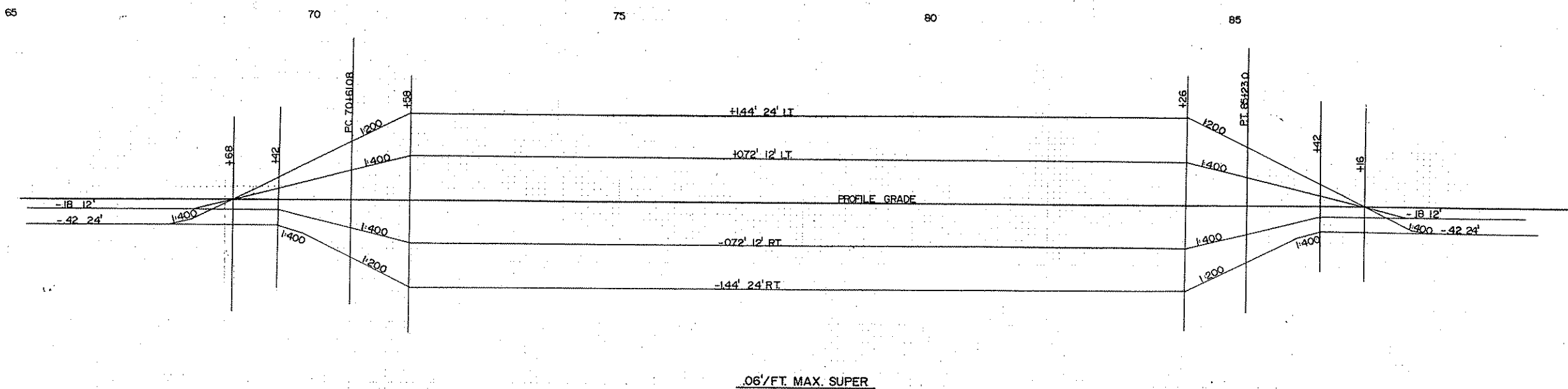
SCALE: 1" = 10'



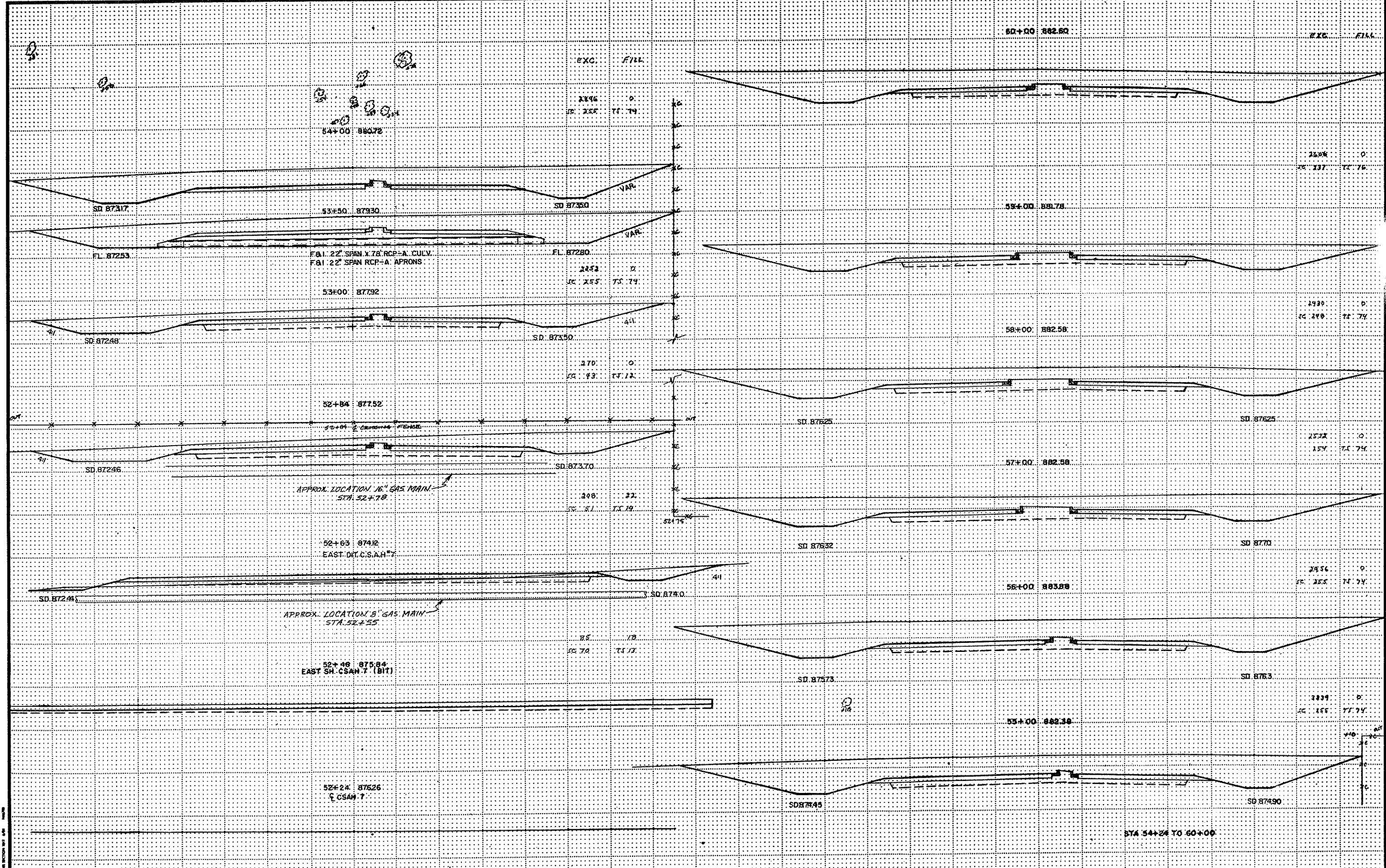
**DITCH CONSTRUCTION RT STA. 108+26**  
SCALE: 1" = 100'



SUPER ELEV. CHARTS







EXC. FILL

2896 0  
CG 255 TF 79

54+00 880.72

SD 87317

53+50 879.30

SD 87350

58+00 881.78

FL 87253

F&I 22' SPAN X 78' RCP - A. CULV.  
F&I 22' SPAN RCP - A. APRONS

FL 87280

53+00 877.92

2852 0  
CG 255 TF 79

SD 87248

SD 87350

58+00 882.58

52+84 877.52

52+01 2' CROSSING FENCE

SD 87625

SD 87625

SD 87246

SD 87370

57+00 882.58

APPROX. LOCATION 16" GAS MAIN  
STA. 52+78

298 32  
CG 51 TF 19

52+63 874.12  
EAST DRY C.S.A.H. 7

SD 87632

SD 8770

SD 87244

SD 87400

56+00 883.88

APPROX. LOCATION 8" GAS MAIN  
STA. 52+55

285 18  
CG 70 TF 17

52+48 875.84  
EAST SH. C.S.A.H. 7 (BIT)

SD 87573

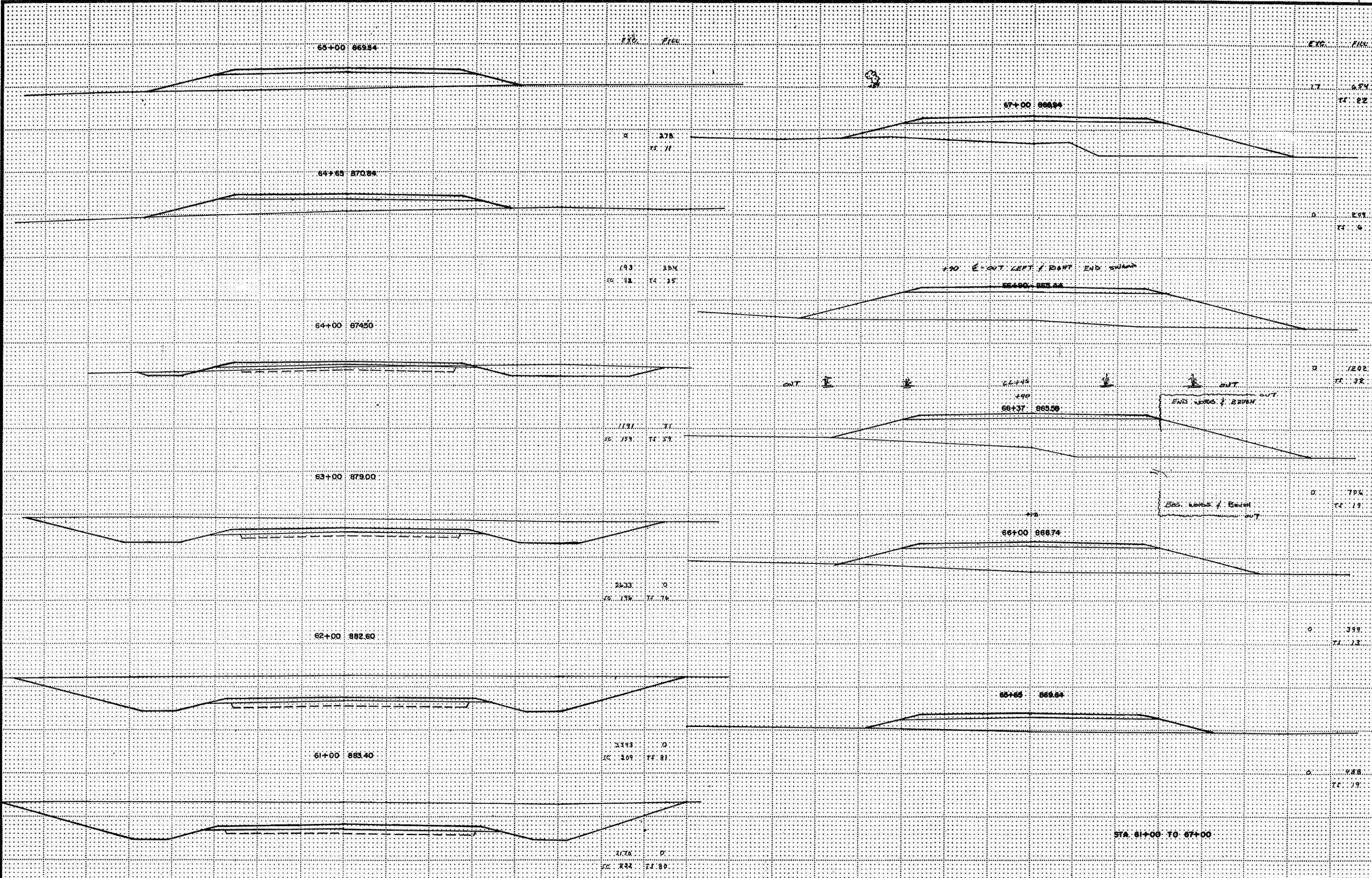
SD 8763

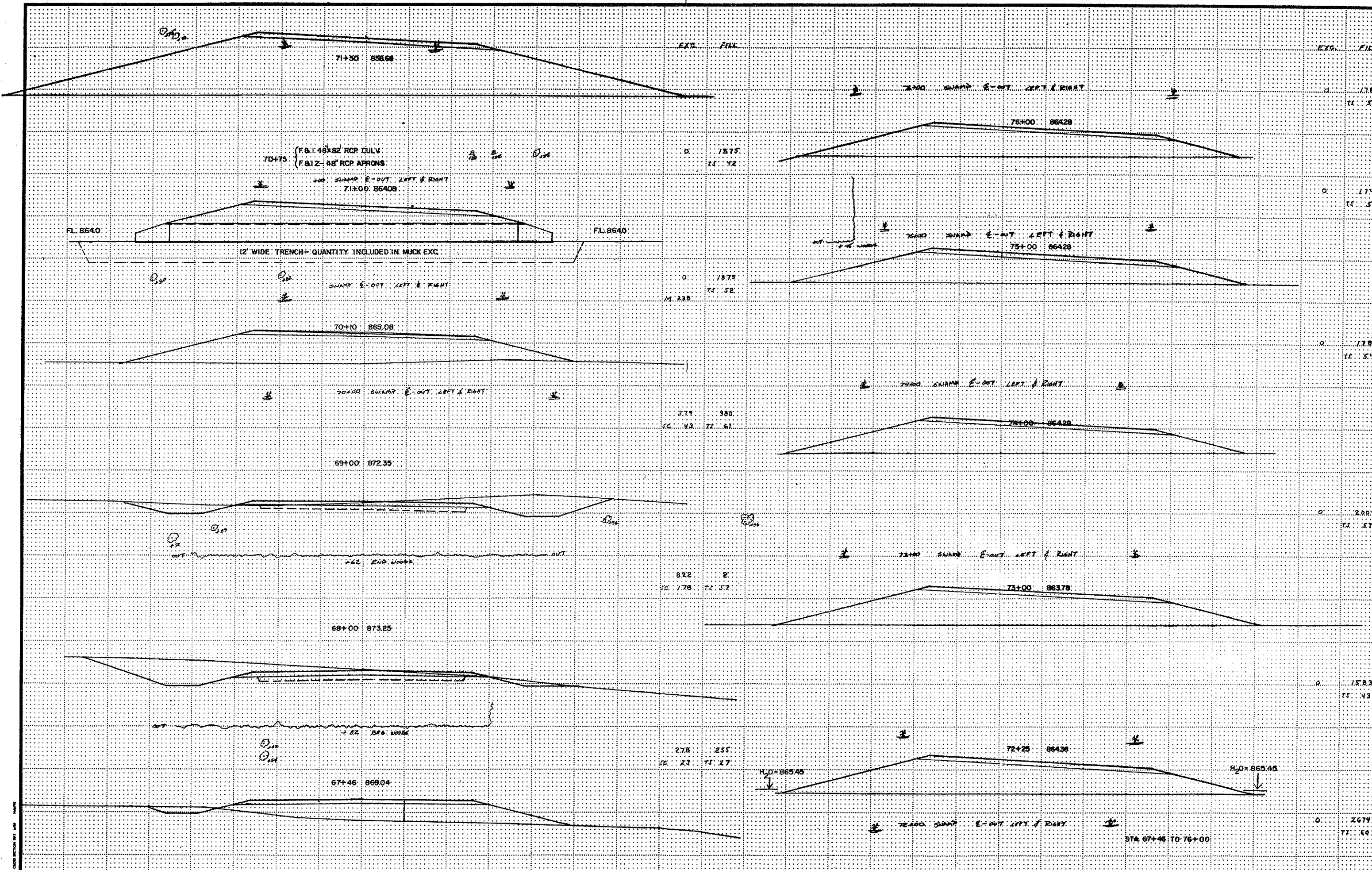
52+24 875.26  
E C.S.A.H. 7

SD 87445

SD 87490

STA 54+24 TO 60+00





70+75 { F.B. 1 48" RCP CULV  
 F.B. 2 48" RCP APRONS

SWAMP E-OUT LEFT & RIGHT  
 71+00 864.08

FL. 864.0      FL. 864.0

12' WIDE TRENCH - QUANTITY INCLUDED IN MUCK EXC.

SWAMP E-OUT LEFT & RIGHT

70+10 865.08

70+00 SWAMP E-OUT LEFT & RIGHT

69+00 872.35

68+00 873.25

67+46 860.04

EXC. FILL

0 1875  
 15 72

0 1875  
 15 52  
 M. 330

379 930  
 16 43 11 61

822 2  
 12 78 11 57

278 255  
 12 23 11 27

EXC. FILL

0 1783  
 15 50

0 1741  
 15 50

0 1785  
 15 54

0 2007  
 15 57

0 1583  
 15 43

0 2679  
 15 50

H<sub>2</sub>O 865.45

H<sub>2</sub>O 865.45

75+00 SWAMP E-OUT LEFT & RIGHT

75+00 864.28

75+00 SWAMP E-OUT LEFT & RIGHT

75+00 864.28

74+00 SWAMP E-OUT LEFT & RIGHT

74+00 864.28

73+00 SWAMP E-OUT LEFT & RIGHT

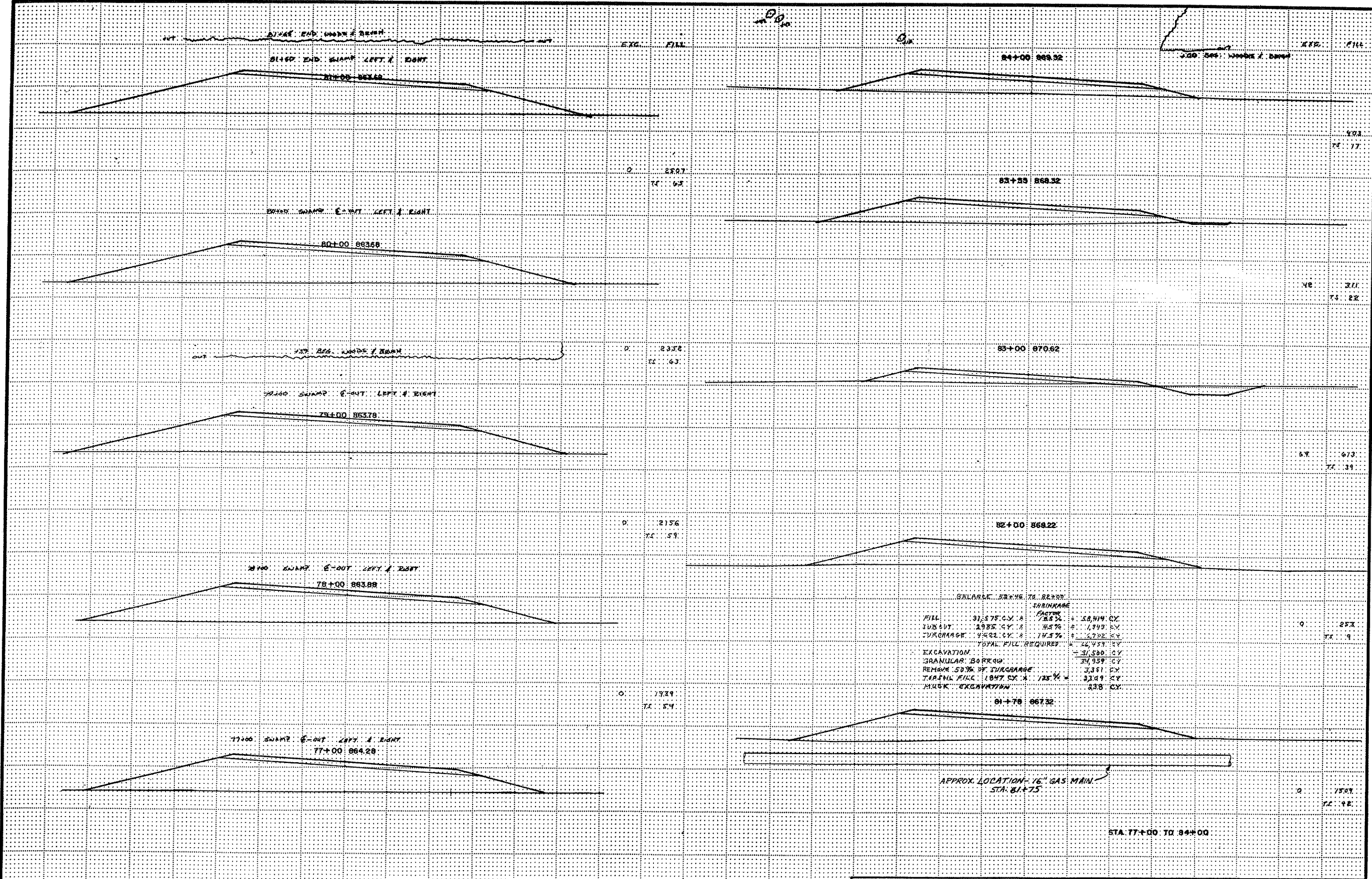
73+00 863.78

72+25 864.38

72+00 SWAMP E-OUT LEFT & RIGHT

STA 67+46 TO 76+00





EXC. FILL

EXC. FILL

BLIND END SWAMP LEFT & RIGHT

WOODS & BERRY

BLIND END SWAMP LEFT & RIGHT

BLIND SWAMP E-OUT LEFT & RIGHT

15% BEE WOODS & BERRY

BLIND SWAMP E-OUT LEFT & RIGHT

BLIND SWAMP E-OUT LEFT & RIGHT

BLIND SWAMP E-OUT LEFT & RIGHT

BALANCE FROM STA. 82+00 TO 81+75

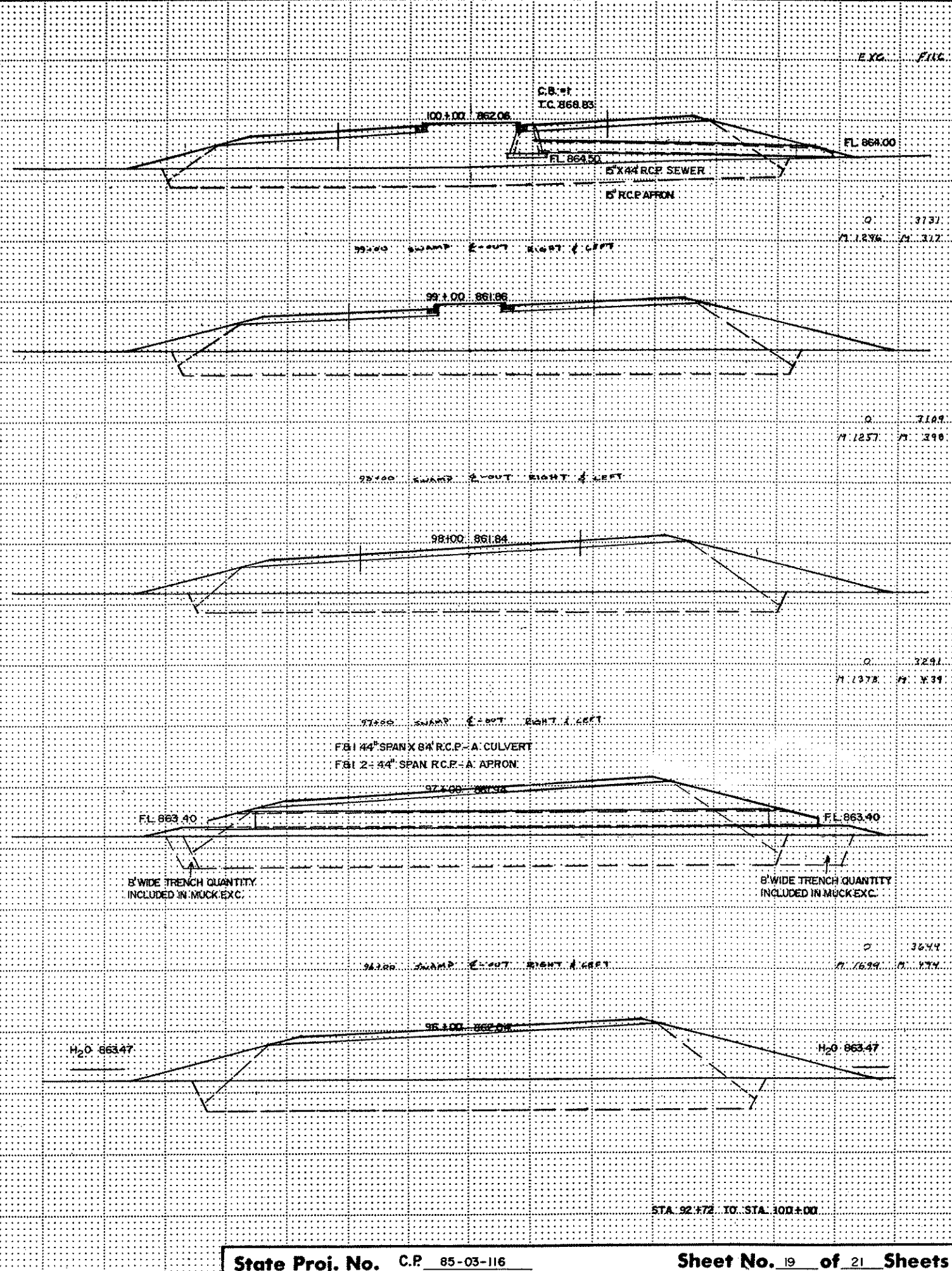
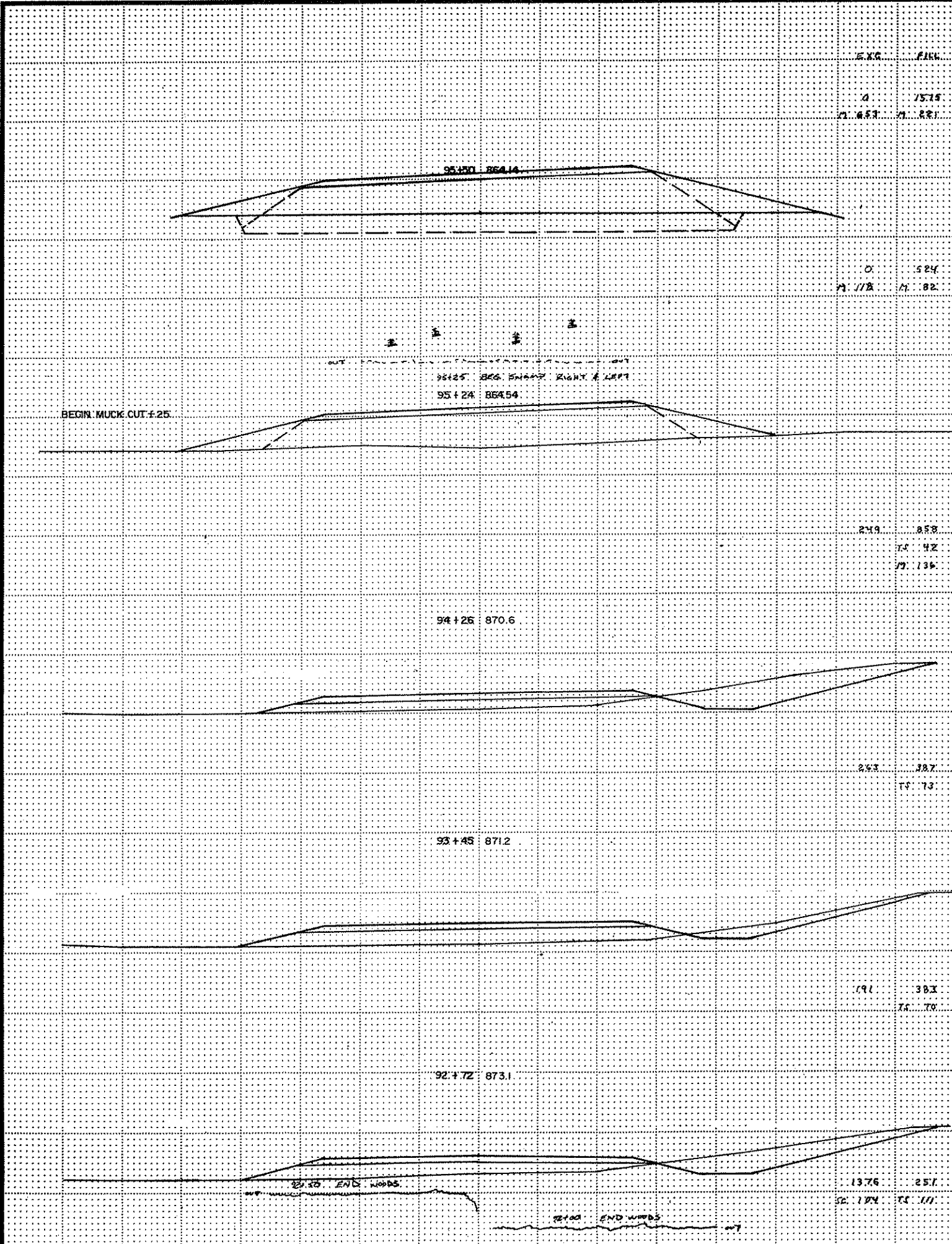
	SHRINKAGE FACTOR	
FILL	31,275 C.Y. @ 85%	= 26,584 C.Y.
UNDERLAY	1,985 C.Y. @ 45%	= 893 C.Y.
SURCHARGE	4,622 C.Y. @ 75%	= 3,467 C.Y.
<b>TOTAL FILL REQUIRED</b>		<b>= 31,044 C.Y.</b>
EXCAVATION		= 3,500 C.Y.
GRANULAR BASE		= 34,957 C.Y.
REMOVE 50% OF SURCHARGE		= 2,311 C.Y.
TOTAL FILL	1,847 C.Y. @ 125%	= 2,309 C.Y.
MUCK EXCAVATION		= 238 C.Y.

APPROX. LOCATION - 16" GAS MAIN  
STA. 81+75

STA. 77+00 TO 84+00



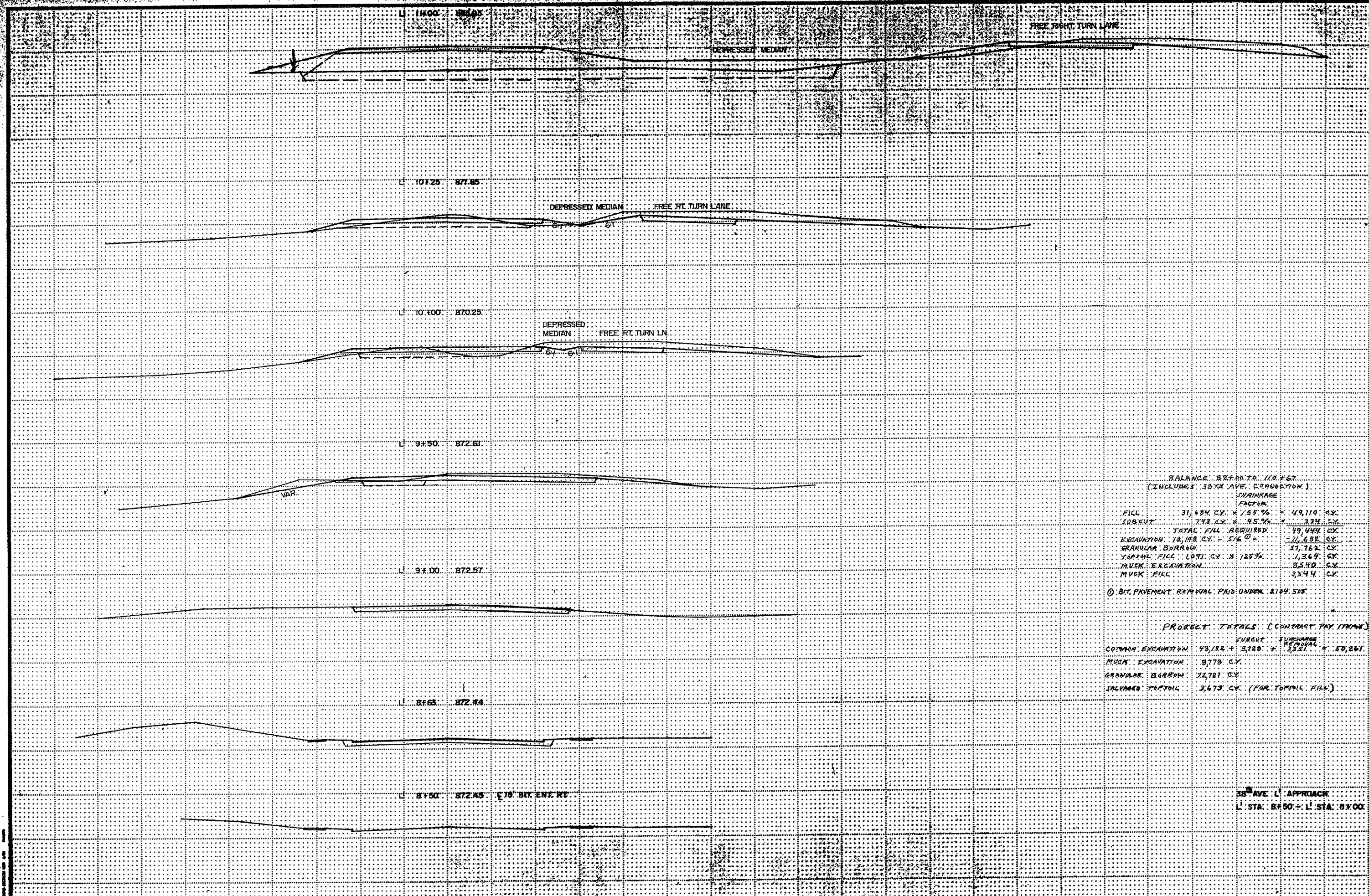




STA.	ELEV.	EXC.	FILL.
95+00	864.14	0	15.15
95+24	864.54	11.453	11.221
94+26	870.6	0	524
93+45	871.2	11.178	11.82
92+72	873.1	219	858
92+72	873.1	74	42
92+72	873.1	19	136
92+72	873.1	253	387
92+72	873.1	19	73
92+72	873.1	191	383
92+72	873.1	75	79
92+72	873.1	1376	257
92+72	873.1	56	174
92+72	873.1	11	111

STA.	ELEV.	EXC.	FILL.
100+00	862.08	0	373
99+00	861.86	11.1246	11.317
98+00	861.84	0	7109
97+00	861.84	11.1257	11.396
96+00	863.40	0	3291
95+00	863.40	11.1378	11.439
94+00	863.40	0	3644
93+00	863.40	11.1639	11.474
92+72	863.47	0	3644
92+72	863.47	11.1639	11.474





BALANCE BKT. PR. TR. 119,467  
(INCLUDES 30TH AVE. CONNECTION)

SHRINKAGE FACTOR	
FILL	31,494 CY. X 1.55% = 49,410 CY.
SUBGT.	743.6 CY. X .95% = 707.4 CY.
TOTAL FILL REQUIRED	49,410 CY.
EXCAVATION: 18" BIT. 11.88 CY. X 5/16" @ =	11,688 CY.
GRANULAR BORROW	27,762 CY.
TAMPING FILL 10% CY. X 125%	1,364 CY.
MUCK EXCAVATION	8,540 CY.
MUCK FILL	3,244 CY.

① BIT. PAVEMENT REMOVAL PAID UNDER \$104,505

PROJECT TOTALS (CONTRACT PAY ITEMS)

	SUBGT.	FURNISH	TOTAL
COMMON EXCAVATION	43,182 + 3,220 + 3,521		50,261 CY.
MUCK EXCAVATION	8,778		8,778 CY.
GRANULAR BORROW	27,762		27,762 CY.
SALVAGED TOPSOIL	3,673		3,673 CY. (FOR TOPSOIL FILL)

30' AVE. L' APPROACH  
L' STA. 8+50 - L' STA. 8+00