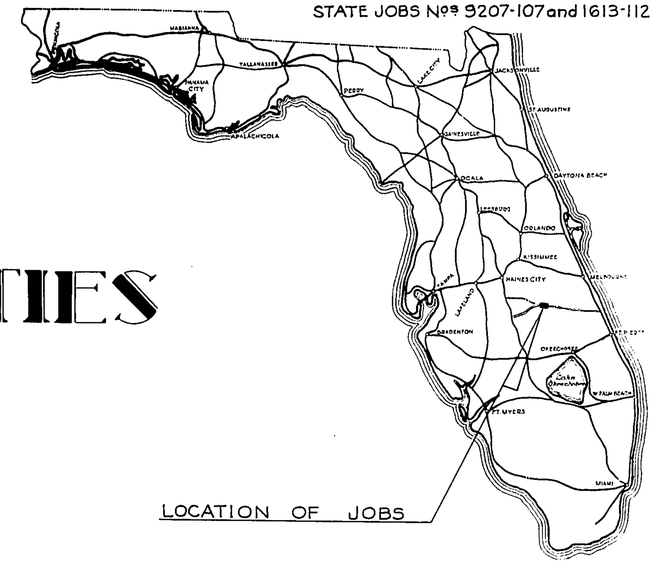
FED. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA.		56	1

STATE JOBS Nos 9207-107 and 1613-112



LOCATION OF JOBS

INDEX OF SHEETS

SHEET NO.	
1	Key Map
2	Typical Section and Summary of Quantities
3	Mass Diagram
4-7	Plan and Profiles
8	Detail of Existing Structure
9-10	Roadway Soil Survey (2 Sheets)
11-14	Borrow Pit Soil Survey (3 Sheets)
15-37	Roadway Cross Sections
38	Detail of Spillway at Bridge Ends.
39	Index Nº 1101-H, Misc. Roadway Const. Details
40-42	Index Nº 2300-D, Guard Rail Details (3 Sheets)
43-44	Index Nº 2613-B, Std. Warning Sign Details (2 Sheets)
45	Index Nº 3814, Approach Slab
46	Index Nº 5010-A, Superelevation Details
	BRIDGE
B-1	Plan and Elevation and Estmd. Bridge Quantities
B-2	Prestressed Conc. Piles (24"ø) Index Nº 3659
B-3	Conc. Pile Substructure, Index Nº 3772, Dwg. C.P.28-E
B-4	Conc. Pile Substructure, Index Nº 3772, Dwg. C.P.28-I
B-5	60 Ft. Span Superstructure, Index Nº 3772, Dwg. S
B-6	Prestressed Concrete Beams
B-7	Prestressed Concrete Beams, Index Nº 3778, Dwg. 2 of 2
B-8	Concrete Handrail, Index Nº 3274
B-9	Layout of Bulkheads
B-10	Bulkhead Details
B-11	Precast Conc. Sheet Piling, Index Nº 3774

STATE OF FLORIDA
STATE ROAD DEPARTMENT

PLANS OF PROPOSED

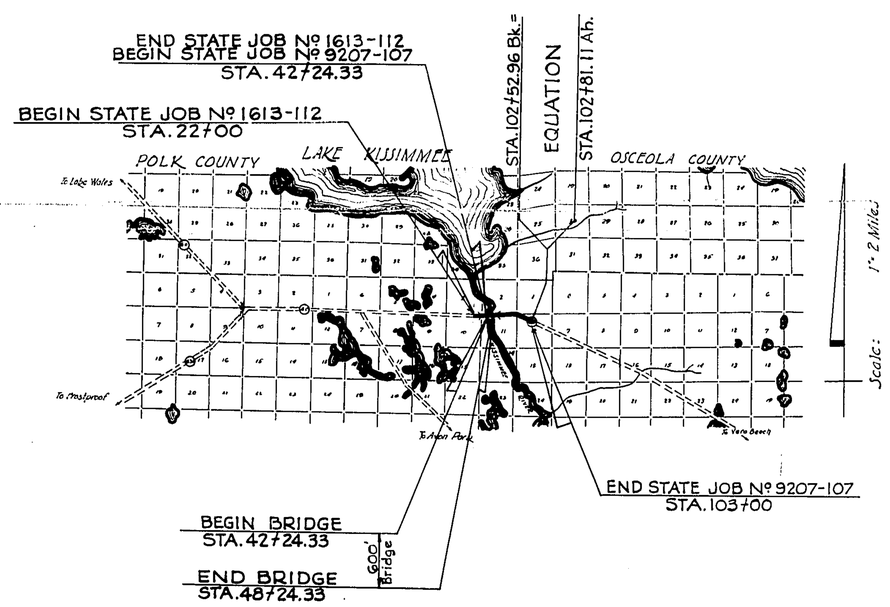
STATE HIGHWAY

OSCEOLA & POLK COUNTIES

STATE JOBS Nos 9207-107 & 1613-112

STATE ROAD Nº 60

NET LENGTH OF JOBS 1.528 Mile



CONVENTIONAL SIGNS

COUNTY LINE		TRAVELED WAY	
TOWNSHIP LINE		CULVERTS	
SECTION LINE		BRIDGES OVER 20 FT. SPAN	
UNFENCED PROPERTY		POWER POLE	
CITY LINE		TELEPHONE POLE	
FENCE LINE		MARSH	
RIGHT OF WAY LINE		GROUND ELEV.	
BASE OR SURVEY LINE		GRADE ELEV.	
RAILROADS		R. R. MILE POST	

GOVERNING SPECIFICATIONS: STATE OF FLORIDA, STATE ROAD DEPARTMENT.
STANDARD SPECIFICATIONS, DATED April 1, 1954
APPROVED BY PUBLIC ROADS ADMINISTRATION – DATE

LENGTH OF JOBS

	STATE JOB Nº 9207-107		STATE JOB Nº 1613-112		TOTAL	
	LIN. FT.	MILE	LIN. FT.	MILE	LIN. FT.	MILE
ROADWAY	5,447.52	1.032	2,024.33	0.383	7,471.85	1.415
BRIDGE	600.00	0.113	0.00	0.000	600.00	0.113
NET LENGTH OF JOB	6,047.52	1.145	2,024.33	0.383	8,071.85	1.528
EXCEPTIONS	0.00	0.000	0.00	0.000	0.00	0.000
GROSS LENGTH OF JOB	6,047.52	1.145	2,024.33	0.383	8,071.85	1.528

SUBMITTED BY

STATE HIGHWAY ENGINEER

RECOMMENDED FOR APPROVAL DATE

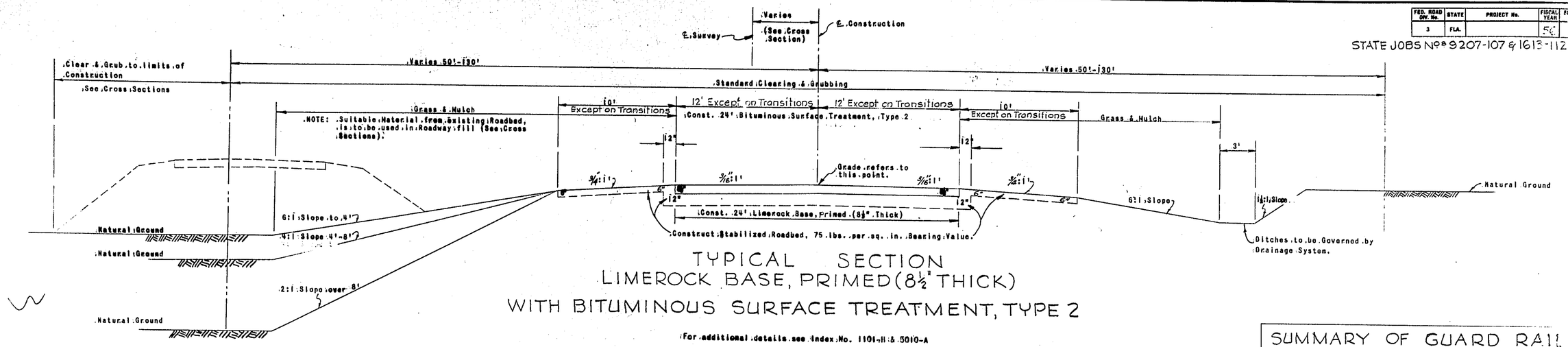
DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE

DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

FED. ROAD DIV. No.	STATE	PROJECT No.	FISCAL YEAR	SHEET No.
3	FLA.		5C	

STATE JOBS Nos 9207-107 & 1613-112



TYPICAL SECTION
LIMEROCK BASE, PRIMED (8½" THICK)
WITH BITUMINOUS SURFACE TREATMENT, TYPE 2

For additional details see Index No. 1101-H & 5010-A

SUMMARY OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITY JOB No 9207-107 ROADWAY	JOB No 9207-107 BRIDGE	JOB No 9207-107 TOTAL	JOB No 1613-112	GRAND TOTAL
2M	Clearing and Grubbing	Lump Sum					1
3	Removal of Existing Structures (Structure No. 1)	Lump Sum	0	1	1	0	1
6M	Borrow Excavation	Cu. Yd.	42,064	0	42,064	78,949	121,013
8M	Grading	Road Mile	1.183	0	1.183	0.411	1.594
13M	Stabilizing	Lump Sum					1
21M	Limerock Base, Primed (8½" thick)	Sq. Yd.	15,006	0	15,006	5,752	20,758
36	Cover Material for Type 2	Cu. Yd.	434	0	434	156	590
Alt. 38-A	Bituminous Material (Surface Treatment, A.C. 150-200 Pent.)	Gallon	7353	0	7353	2818	10,171
Alt. 38-B	Bituminous Material (Surface Treatment, Emulsified Asphalt)	Gallon	8703		8703	3336	12,039
70-A	Concrete, Class A (Bridge)	Cu. Yd.	0	675.8	675.8	0	675.8
70-B	Concrete, Class A (Bulkhead)	Cu. Yd.	0	153.5	153.5	0	153.5
74	Concrete, Handrail	Lin. Ft.	0	1208	1208	0	1208
77	Reinforcing Steel	Pound	0	123,220	123,220	0	123,220
78	Structural Steel (Shoe Assemblies)	Pound	0	10,400	10,400	0	10,400
100	Precast Concrete Piling (24"□ Prestressed)	Lin. Ft.	0	3,250	3,250	0	3,250
103	Unloaded Test Piling (24"□ Prestressed)	Lin. Ft.	0	120	120	0	120
104	Test Loads	Each	0	1	1	0	1
107	Concrete Sheet Piling	Lin. Ft.	0	9,748	9,748	0	9,748
122	Concrete Ditch Pavement (3" thick)	Sq. Yd.	36	0	36	36	72
129	Right of Way Markers (Installation only)	Each	18	0	18	10	28
132	Metal Guard Rail	Lin. Ft.	3350	0	3350	3367	6717
135	Grassing and Mulching	Sq. Yd.	41,323	0	41,323	15,787	57,110
136	Mulch Material	Ton	27	0	27	9	36
144	Maintenance of Traffic	Lump Sum					1
145	Prestressed Beams (Type D)	Lin. Ft.	0	2,370	2,370	0	2,370
146	Precast Diaphragms	Each	0	60	60	0	60
GGM	Approach Slabs	Each	1	0	1	1	2

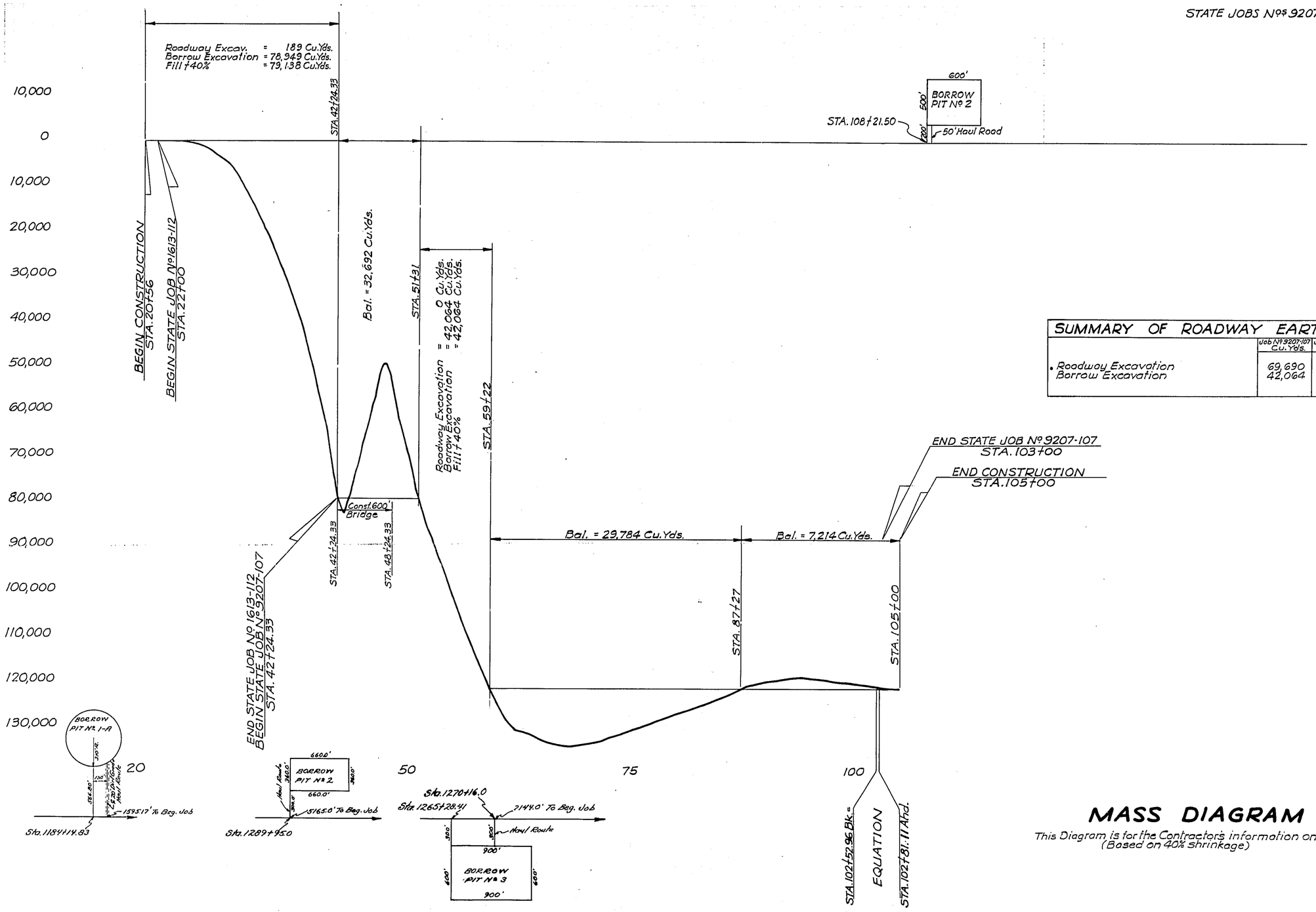
See note on Detail of Exist. Structure No. 1, Sheet No. 8

SUMMARY OF GUARD RAIL

STATION TO STATION	LEFT	RIGHT	JOB NO. 9207-107	JOB NO. 1613-112
20+56.50 - 42+23.83		2167.33		2167.33
30+23.83 - 42+23.83	1200.00			1200.00
48+24.83 - 64+99.33	1675.00	1675.00	3350.00	
TOTALS			3350.00	3367.33

Note: Cost of Lump Sum items to be prorated as follows:

Item No	Job No 9207-107	Job No 1613-112
2M	76%	24%
3	100%	0%
13M	73%	27%
144	25%	75%



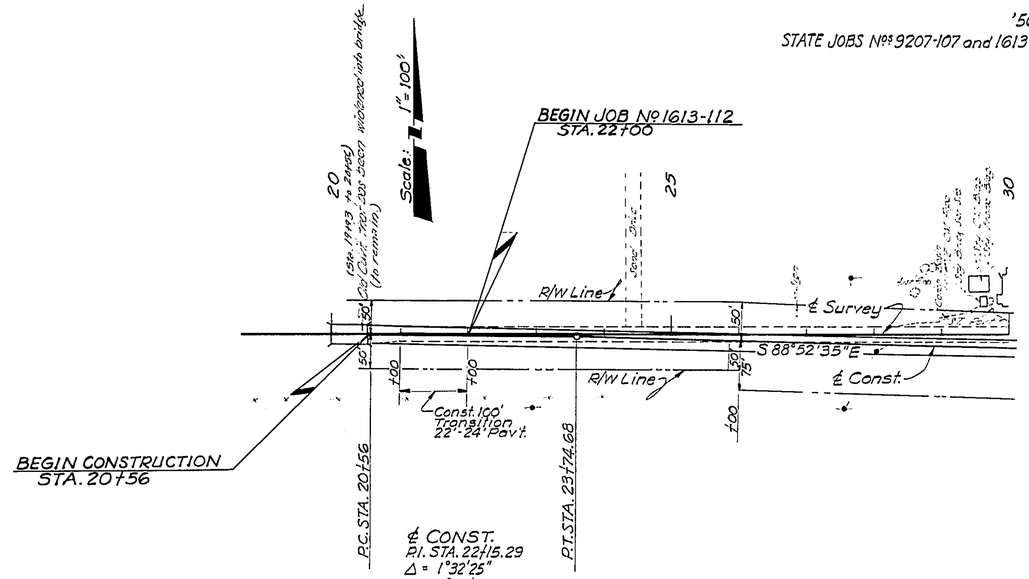
SUMMARY OF ROADWAY EARTHWORK			
	Job No 9207-107 Cu. Yds.	Job No 1613-112 Cu. Yds.	TOTAL Cu. Yds.
• Roadway Excavation	69,690	189	69,879
Borrow Excavation	42,064	78,949	121,013

MASS DIAGRAM

This Diagram is for the Contractors information only.
(Based on 40% Shrinkage)

'56 4

STATE JOBS Nos 9207-107 and 1613-112

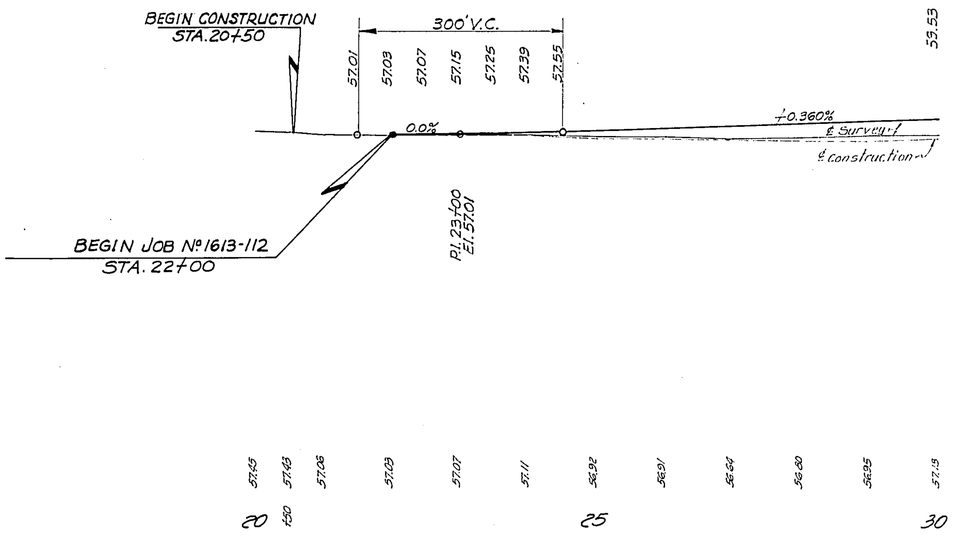


NOTE:

Grades shown are finished grades
Utilities to be moved or adjusted, if necessary, by owners at their expense.
Buildings to be moved by others.
Any monuments within limits of construction to be reset by others.

B.M. Datum
U.S.C.&G. B.M. Lake Wales E-63 about 27.7 miles east along State Hwy. 60 from the A.C.L. R.R. Sta. about 1.2 miles east of bridge over Kissimmee River, and about 47 ft. south of ℄ of a Highway. A standard disk, stamped "E-63, 1934" and set in the top of a concrete post projecting about 8 inches above ground. El. 59.892.

B.M. N° 1
Std. S.R.D. B.M. Disk in concrete wingwall 18.6' Lt. ℄ Sta. 20+55 (Not stamped)
El. 58.18



'56 5

STATE JOBS Nos 9207-107 & 1613-112

END JOB No 1613-112
BEGIN JOB No 9207-107
STA. 42+24.53

RIVER

Exist. Bridge To be removed (Structure No 1)

Scale 1" = 100'

Const. Conc. Bulkhead See Bridge Plans

Const. Conc. Bulkhead See Bridge Plans

℄ Survey

R/W Line

Const. Conc. Spillway See Sheet No

Const. Conc. Spillway Sheet No

S. 88°52'35" E.

℄ Const.

R/W Line

R/W Line

3.16 Steel Guard Railing

Sta. 30+129 Beg. Exist. Bridge

STA. 40+04.33 Beg. Trans. 24'-28' Pavt.

200' Trans. 24'-28' Pavt.

STA. 42+04.33 Begin Appr. Slab

STA. 42+24.33 Begin Bridge

Construct 600' Bridge

STA. 45+24.33 End Bridge

Sta. 48+44.33 End Appr. Slab

Sta. 50+44.33 End Transition 28'-24' Pavt.

200' Trans. 28'-24' Pavt.

Const. Approach Slab, Index No 3814

Const. Approach Slab, Index No 3814

Sta. 61+61.7 End Exist. Bridge

KISSIMMEE

STA. 45+24.33
50

B.M. No 2
Brass cap in conc. wingwall, 18.7 Lt. ℄ (Survey) STA. 30+26
Elev. 60.41

END JOB No 1613-112
BEGIN JOB No 9207-107
STA. 42+24.33

B.M. No 3
Small nail in power pole
112' Rt. ℄ (Survey) Sta. 41+02
Elev. 46.545

P.I. STA. 45+24.33
El. 83.50

+3.00%

-3.00%

Construct 600' Bridge

400' V.C.

400' V.C.

36 S.Y. conc. ditch pavt. Lt. & Rt.

36 S.Y. conc. ditch pavt. Lt. & Rt.

+0.360%

-3.00%

-0.42%

El. 55.0

El. 55.0

Controlled H.W. Elev. 51.0

Bulkhead

Bulkhead

℄ Survey

℄ Construction

P.I. 38+24.33
El. 62.50

P.I. 52+24.33
El. 62.50

Excavate to Elev. 35.0

1000' V.C.

400'

59.53

59.24

30 35 40 45 50 55 60

'56 5

STATE JOBS Nos 9207-107 & 1613-112

END JOB No 1613-112
BEGIN JOB No 9207-107
STA. 42+24.53

Scale 1"=100'

Const. Conc. Bulkhead See Bridge Plans

Exist. Bridge To be removed (Structure No 1)

RIVER

KISSIMMEE

Const. Conc. Bulkhead See Bridge Plans

℄ Survey

R/W Line

℄ Const.

S. 88°52'35" E.

Const. Conc. Spillway See Sheet No

3.18 Wheel Guard

Sta. 30+1.29
Beg. Exist. Bridge

Sta. 40+04.33 Beg. Trans. 24'-28' Pov't.

STA. 42+04.33 Begin Appr. Slab

Begin Bridge

STA. 42+24.33

Construct 600' Bridge

200' Trans. 24'-28' Pov't.

Const. Approach Slab, Index No 3814

STA. 48+24.33

End Bridge

Sta. 48+44.33 End Appr. Slab

Sta. 50+44.33 End Transition 28'-24' Pov't.

200' Trans. 28'-24' Pov't.

Const. Approach Slab, Index No 3814

Sta. 61+61.7
End Exist. Bridge

P.I. STA. 45+24.33
El. 83.50

B.M. No 2
Brass cap in conc. wingwall, 18.7 Lt. ℄ (Survey) STA. 30+26
Elev. 60.41

END JOB No 1613-112
BEGIN JOB No 9207-107
STA. 42+24.33

B.M. No 3
Small nail in power pole
112' Rt. ℄ (Survey) Sta. 41+02
Elev. 46.545

+3.00%

-3.00%

Construct 600' Bridge

400' V.C.

36 S.Y. conc. ditch pav't. Lt. & Rt.

+0.360%

-0.42%

El. 55.0

Bulkhead

Controlled H.W. Elev. -51.0

Excavate to Elev. 35.0

1000' V. C.

400'

P.I. 38+24.33
El. 62.50

P.I. 52+24.33
El. 62.50

℄ Survey

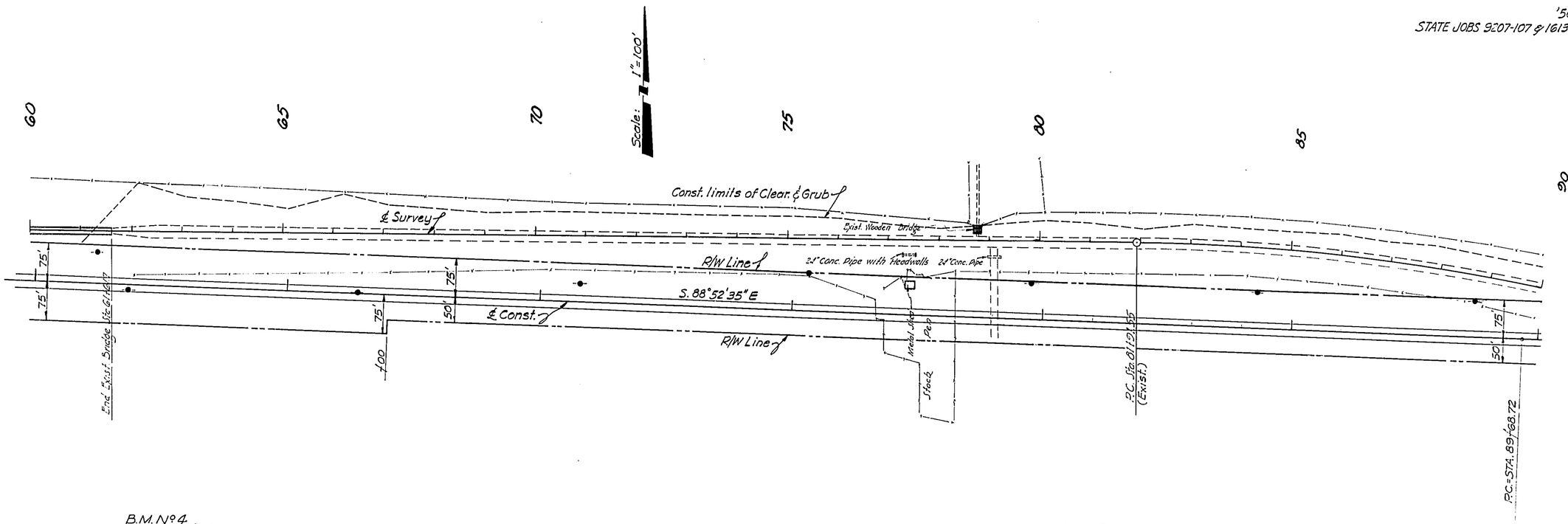
℄ Construction

59.53

59.24

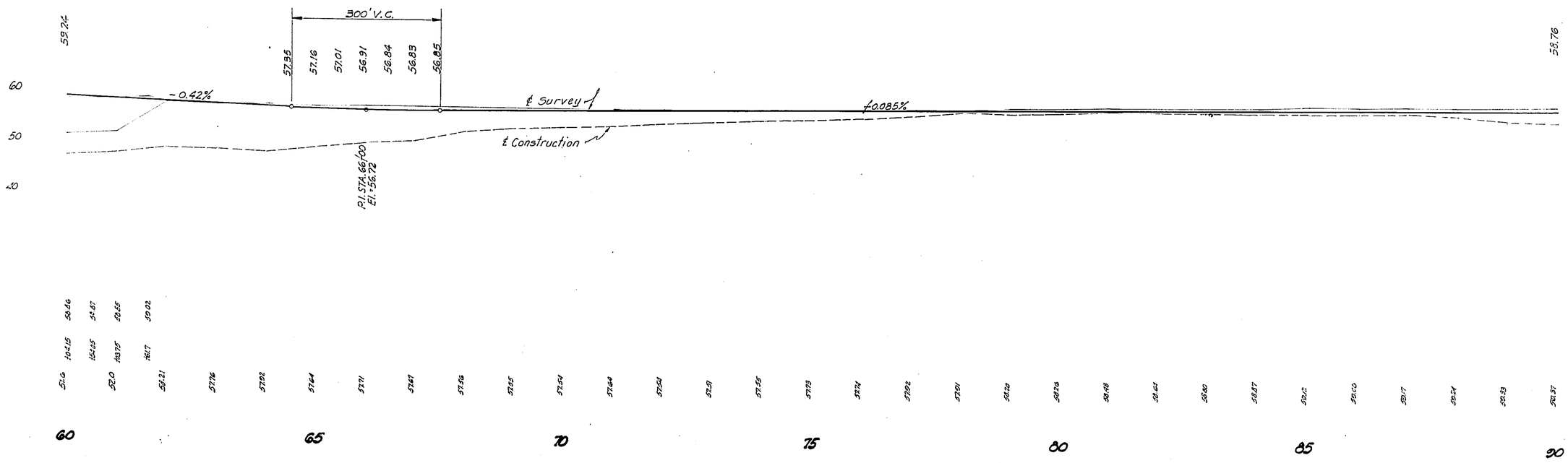
30 35 40 45 50 55 60

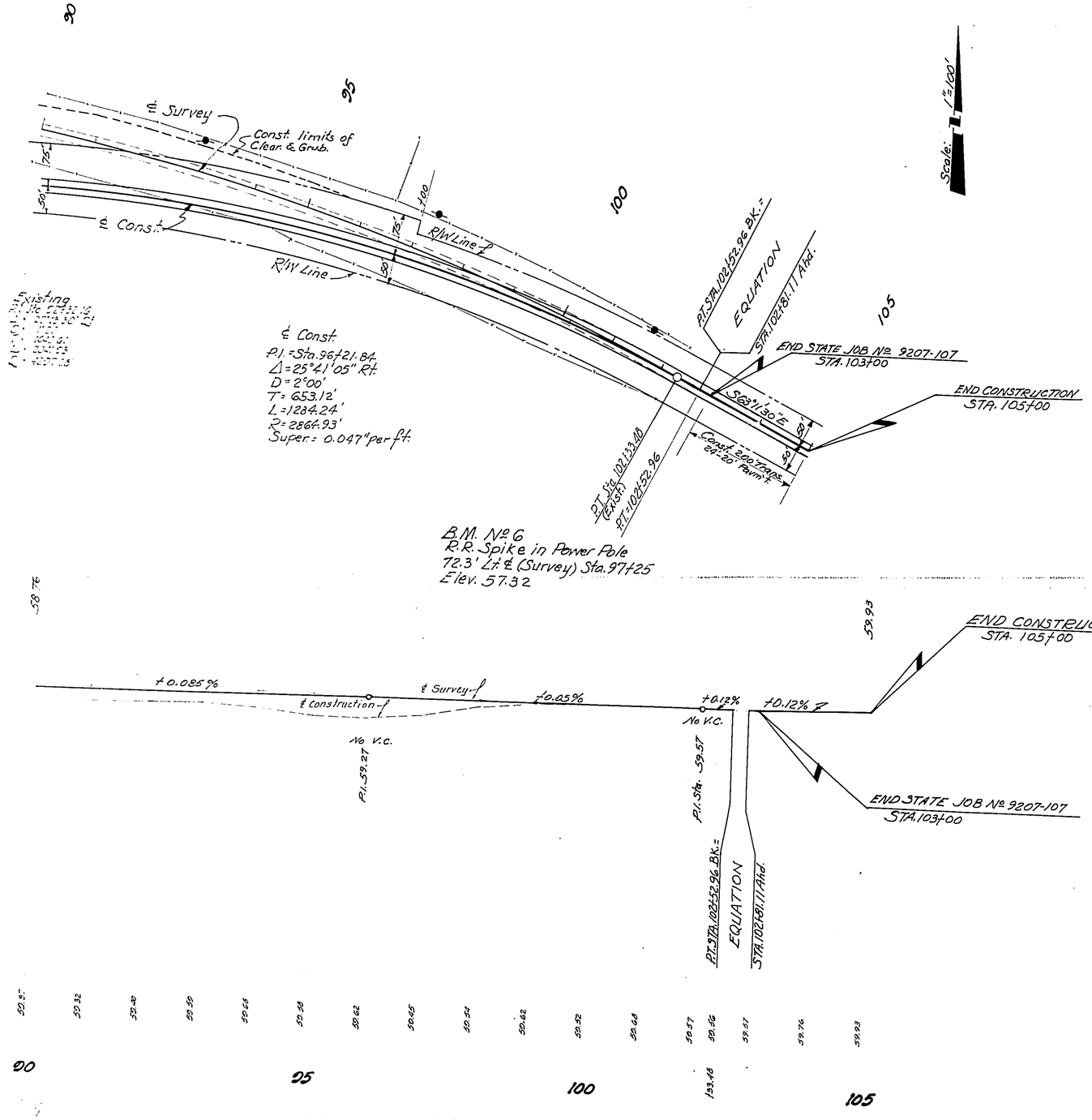
'56 6
STATE JOBS 9207-107 & 1613-112



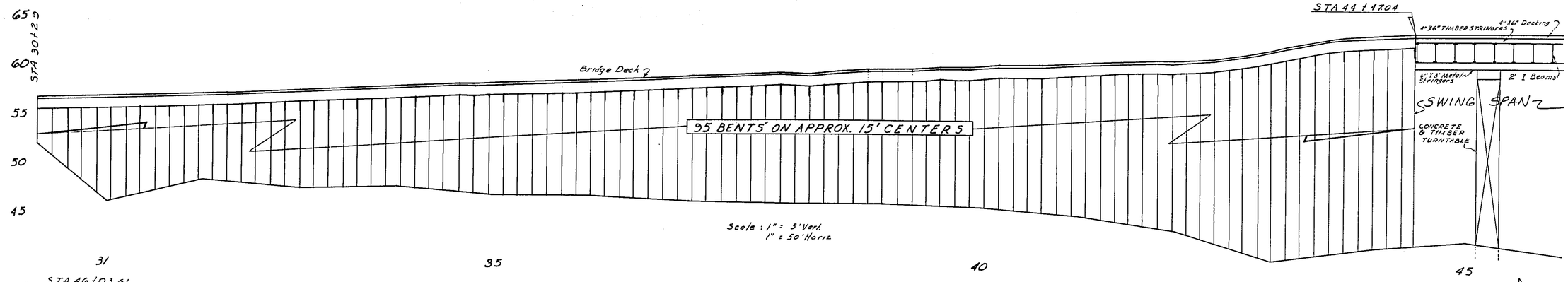
B.M. N° 4
R.R. Spike in Power pole
115' Rt. ℄ (Survey) Sta. 61+98
Elev. 49.825

B.M. N° 5
R.R. Spike in 18" Cabbage Palm
210' Rt. ℄ (Survey) Sta. 58+92
Elev. 58.92

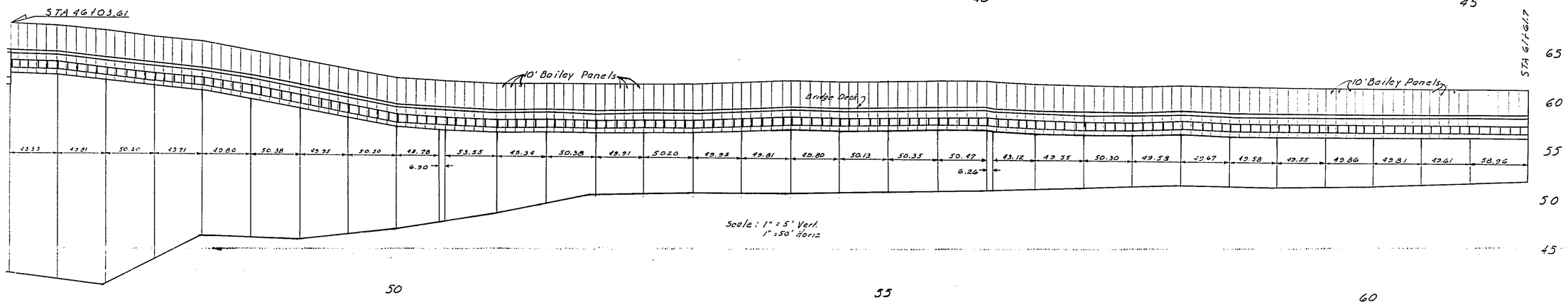



℄ Survey
Const. limits of Clear. & Grub.
℄ Const.
R/W Line
R/W Line
Existing
℄ Const.
P.I. = Sta. 96+21.84
Δ = 25°41'05" Rt.
D = 2°00'
T = 653.12'
L = 1284.24'
R = 2864.93'
Super = 0.047" per ft.
P.T. STA. 102+52.96 BK. =
EQUATION
STA. 102+81.11 Ahd.
END STATE JOB No. 9207-107
STA. 103+00
END CONSTRUCTION
STA. 105+00
S63°11'30"E
P.T. Sta. 102+33.40 (EXIST.)
P.T. = 102+52.96
Const. 20'7" mins. 24'-20' Pavm't.
B.M. No. 6
R.R. Spike in Power Pole
72.3' Lt. ℄ (Survey) Sta. 97+25
Elev. 57.32
+0.085%
℄ Construction
℄ Survey
+0.05%
+0.12%
+0.12%
No V.C.
No V.C.
P.I. 59.27
P.I. Sta. 59.57
P.T. STA. 102+52.96 BK. =
EQUATION
STA. 102+81.11 Ahd.
END CONSTRUCTION
STA. 105+00
END STATE JOB No. 9207-107
STA. 103+00
90
95
100
105
193.48

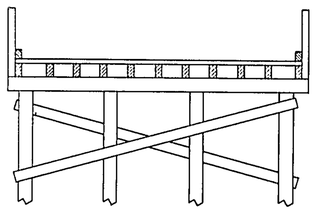
OSCEOLA 60
STATE JOBS 9207-107 & 1613-112



Scale : 1" = 5' Vert.
1" = 50' Horiz



Scale : 1" = 5' Vert.
1" = 50' Horiz



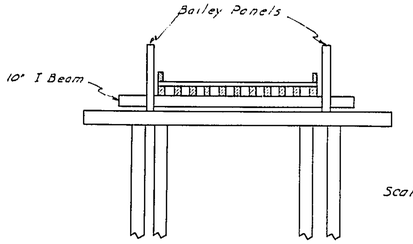
Scale : 1" = 5'

STA 30+29 TO STA 44+47.04
TIMBER BRIDGE

CAPS	12"	X	12"
STRINGERS	6"	X	12"
DECKING	4"	X	6"
WHEEL GUARD	4"	X	8"
CROSS BRACES	4"	X	10"

STA 44+47.04 TO STA 46+03.61
STEEL & TIMBER SWING SPAN ON
CONCRETE & TIMBER TURNTABLE

NOTE: All parts of the existing Bailey Bridge excluding the Piling (Sta.46+03.61-Sta.61+61.7) and watchmans house to be removed and disposed of by State Road Dept. Forces at the convenience of the Contractor. All other materials and/or Equipment to be disposed of by the Contractor.



Scale : 1" = 5'

STA 46+03.61 TO STA 61+61.7
BAILEY PANEL BRIDGE

CAPS	12"	X	12"
STRINGERS	6"	X	8"
DECKING	4"	X	6"
WHEEL GUARD	4"	X	8"

EXISTING STRUCTURE Nº 1
STA. 30+29 TO STA 61+61.7

County	Project	Key	Sheet No.
OSCEOLA & POLK	60	9207-107 & 1613-112	9

STATE ROAD DEPARTMENT OF FLORIDA

DIVISION OF TESTS

PROJECT NO. 9207-107 & 1613-112

PROFILE SUBGRADE SURVEY FOR THE DESIGN OF ROAD

SURVEY BEGINS STA. 21+00 SURVEY ENDS STA. 101+00

DISTRICT NO. 5

ROAD NO. 60

COUNTY OSCEOLA

DATE OF SURVEY JULY 18-24, 1956

SURVEY MADE BY LEE, BLANE & RIDENOUR

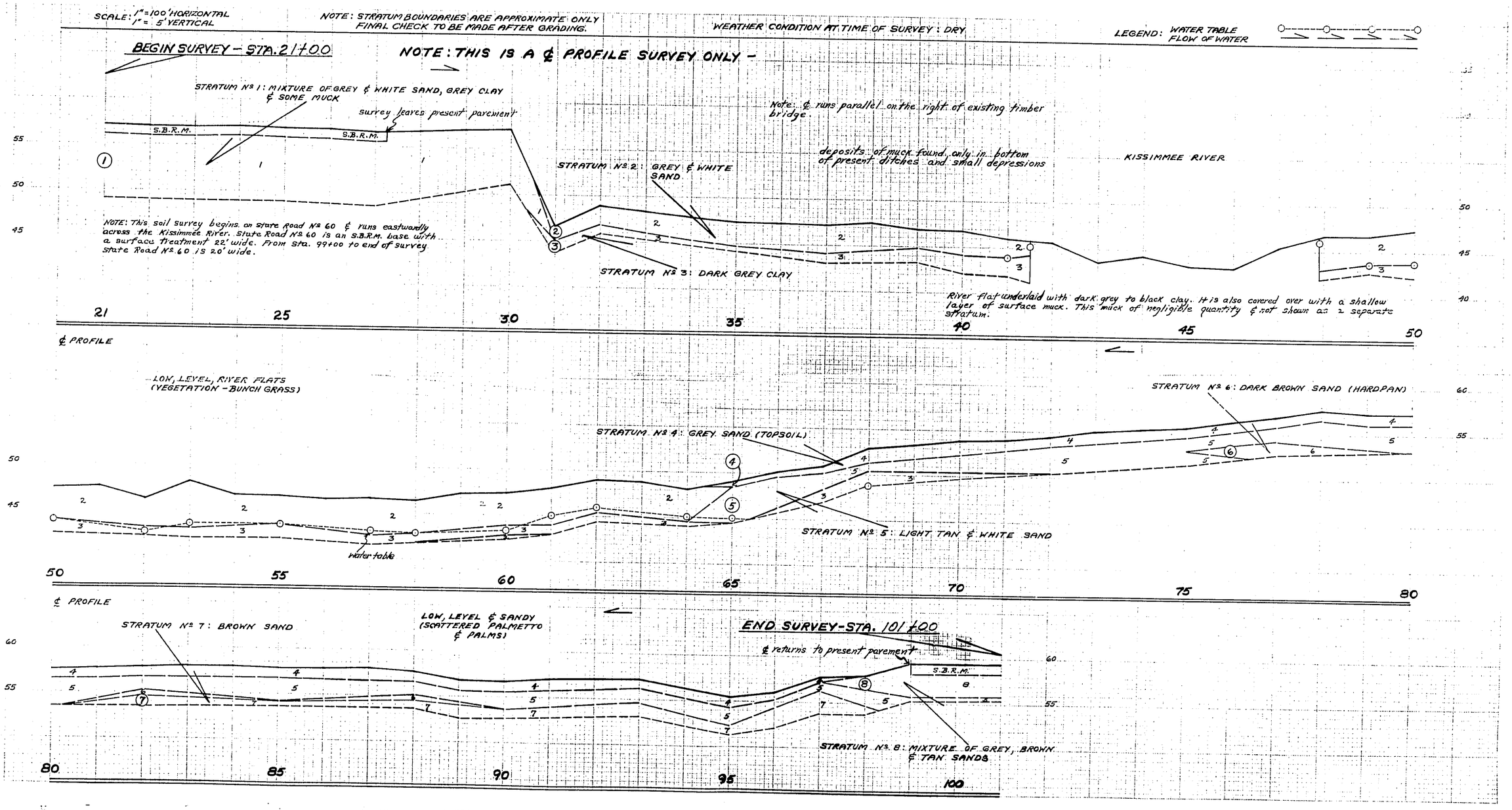
SUBMITTED BY RICHEY GREEN

SCALE: 1"=100' HORIZONTAL
1"= 5' VERTICAL

NOTE: STRATUM BOUNDARIES ARE APPROXIMATE ONLY FINAL CHECK TO BE MADE AFTER GRADING.

WEATHER CONDITION AT TIME OF SURVEY: DRY

LEGEND: WATER TABLE, FLOW OF WATER



Dist	STATE	COUNTY	Route	Job Nos	Sheet No
	FLA.	OSCEOLA & POLK	60	9207-107 & 1613-112	10

STATE ROAD DEPARTMENT OF FLORIDA

DIVISION OF TESTS

Laboratory No.: 30849-S
Project No.: 9207-~~222~~ 107 & 1613-112
Road No.: 60
District: Fifth
Submitted By: Richey Green

Date Sampled: 7/24/56
Date Received: 8/1/56
Date Tested: 8/6/56
Date Reported: 8/7/56
Sampled By: Lee

REPORT OF TESTS OF MATERIAL FROM ROADWAY FOR USE IN EMBANKMENT AND SUBGRADE

Stratum No.	Bearing value Lbs. Per Sq. Inch	MECHANICAL ANALYSIS: % Coarse Sand 2-.25mm 10M-60M	% Fine Sand .25-.05mm 60M-270M	% Total Sand	% Silt .05 to .005mm	% Clay less than .005mm	% Pass 40 Mesh	% Pass 60 Mesh	% Pass 200 Mesh	CONSTANTS MATERIAL PASSING NO. 40 SIEVE: Liquid Limit	Plastic Index	Group
1	32											A-3
2	16											A-3
3	220+	1	65	66	8	26	100	99	37	35	18	A-6
4	32											A-3
5	13											A-3
6	90											A-3
7	53											A-3
8	26											A-3

EMBANKMENT AND SUBGRADE
(75 lbs. bearing value required)

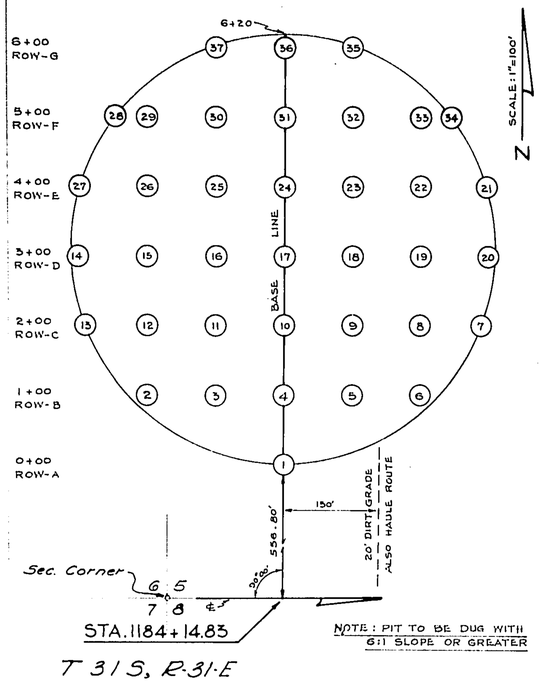
The material from Strata 1, 2, 4, 5, 7 and 8 appears satisfactory for use in embankment, but if used, the upper portion of grade should be constructed with selected material or stabilized with suitable material in the proper proportions so that a minimum bearing value of 75 pounds per square inch will be obtained in the 12 inches immediately below the proposed pavement or base.

The material from Stratum 3 is of the A-6 subsoil group and is not satisfactory for use in embankments unless compacted in accordance with standard specifications, and then covered with a minimum of 12 inches of material of the A-1, friable A-2 or A-3 subsoil group the entire width of roadway from slope to slope. Where this A-6 material occurs in a cut it should be removed to a minimum depth of 12 inches below finished subgrade the entire width of roadway from ditch slope to ditch slope. The remaining surface to a depth of 6 inches should be compacted to maximum density and then backfilled with material of the A-1, friable A-2 or A-3 subsoil group. If material of the A-3 subsoil group having bearing values less than 75 pounds per sq. inch is used as backfill in a cut or as cover on a fill, it will be necessary to stabilize the upper portion of grade with suitable material in the proper proportions so as to provide a minimum of 12 inches of 75 pounds or greater bearing value material of a satisfactory subsoil group immediately below the proposed pavement or base.

The material from Stratum 6 appears satisfactory for use in embankment or subgrade.

TESTED BY: Jones-Barber-Northrop
h

Engineer of Materials & Tests



NOTE: PIT TO BE DUG WITH 6:1 SLOPE OR GREATER

BORROW PIT NO. 1-A

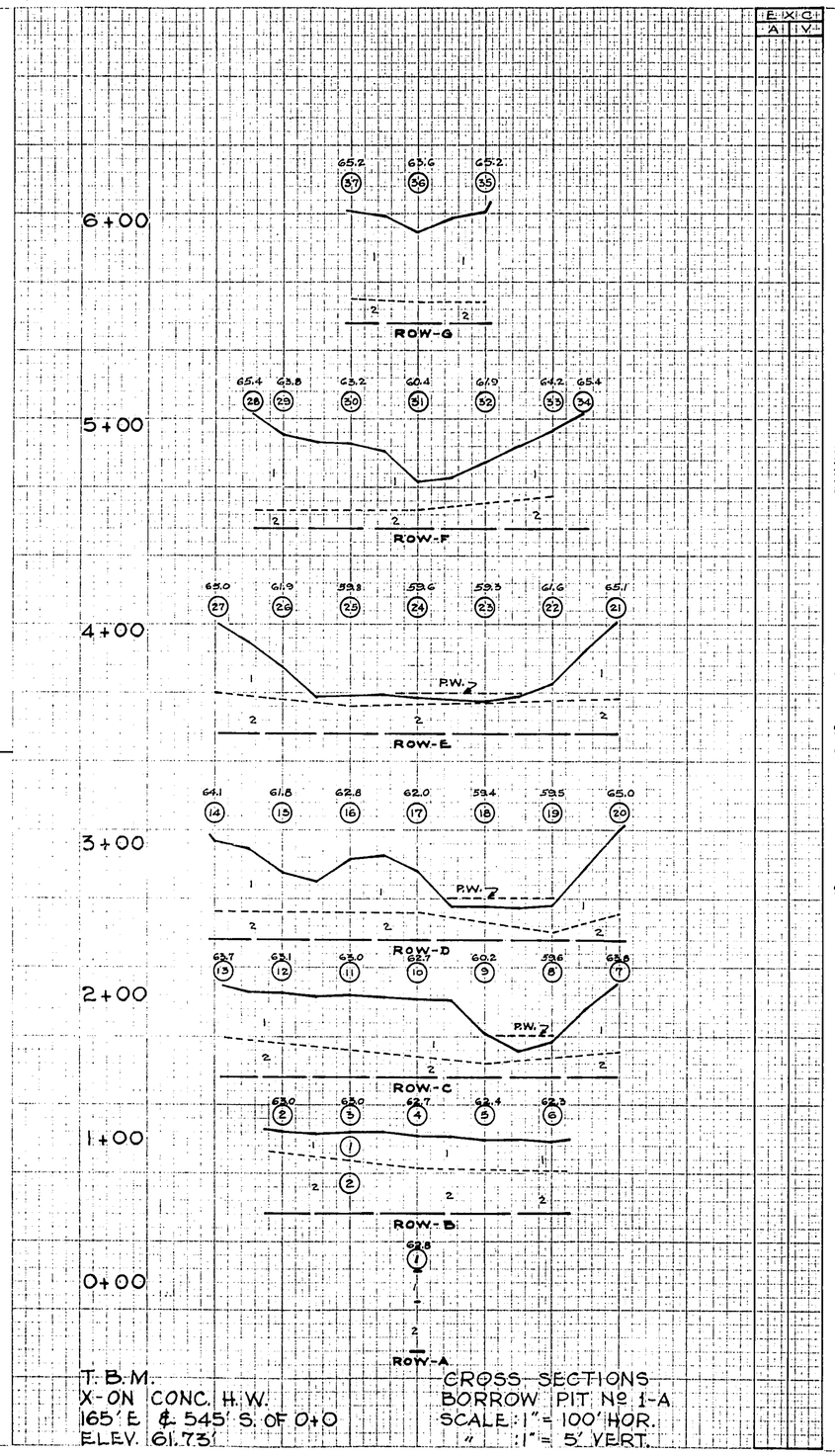
* Note: Pit is to be fenced by Contractor prior to Excavating.

JOB 1613-112 ROAD 60
POLK COUNTY
CLEARING & GRUBBING: NONE
WEATHER: DRY

STRATA DESCRIPTION
STRATUM NO.1 - LIGHT GREY SAND
" NO.2 - BROWN SAND

* Fence to be 4 strand barbed wire 4½' high, posts spaced of 10'.

SUBMITTED BY: H.M. JOHNSON, DIST. ENGR.
DISTRICT: FIRST
SURVEY BY: HARRINGTON & McCUE
DATE OF SURVEY: NOV. 13, 1956



T. B. M.
X-ON CONC. H.W.
165' E & 545' S. OF 0+0
ELEV. 61.73'

CROSS SECTIONS
BORROW PIT No. 1-A
SCALE: 1" = 100' HOR.
" : 1" = 5' VERT.

FED. ROAD DIVN. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
3	FLA		56	11

STATE JOBS Nos 9207-107 & 1613-112

SOIL TEST RESULTS

Laboratory No.: 32522-S
Project No.: 1613-112
Road No.: 60
District: First
Submitted By: H. M. Johnson

Date Sampled: 11/13/56
Date Received: 11/26/56
Date Tested: 11/28/56
Date Reported: 11/28/56
Sampled By: Harrington

REPORT OF TESTS OF MATERIAL FROM BORROW PIT FOR USE IN EMBANKMENT AND SUBGRADE

Stratum No.	Bearing value Lbs. Per Sq. Inch	Group
1	24	A-3
2	50	A-3

EMBANKMENT AND SUBGRADE
(75 lbs. bearing value required)

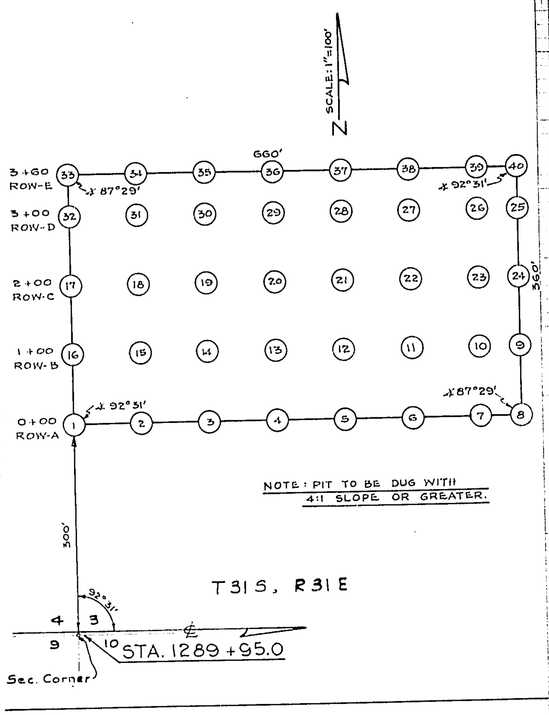
The material from Strata 1 and 2 appears satisfactory for use in embankment, but if used, the upper portion of grade should be constructed with selected material or stabilized with suitable material in the proper proportions so that a minimum bearing value of 75 pounds per square inch will be obtained in the 12 inches immediately below the proposed pavement or base.

TESTED BY: Barber-Fitzstevens
h

Engineer of Materials & Tests

FED. ROAD DIVN. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.
5	FLA.		56	12

STATE JOBS Nos 9207-107 & 1613-112



NOTE: PIT TO BE DUG WITH 4:1 SLOPE OR GREATER.

BORROW PIT No 2.

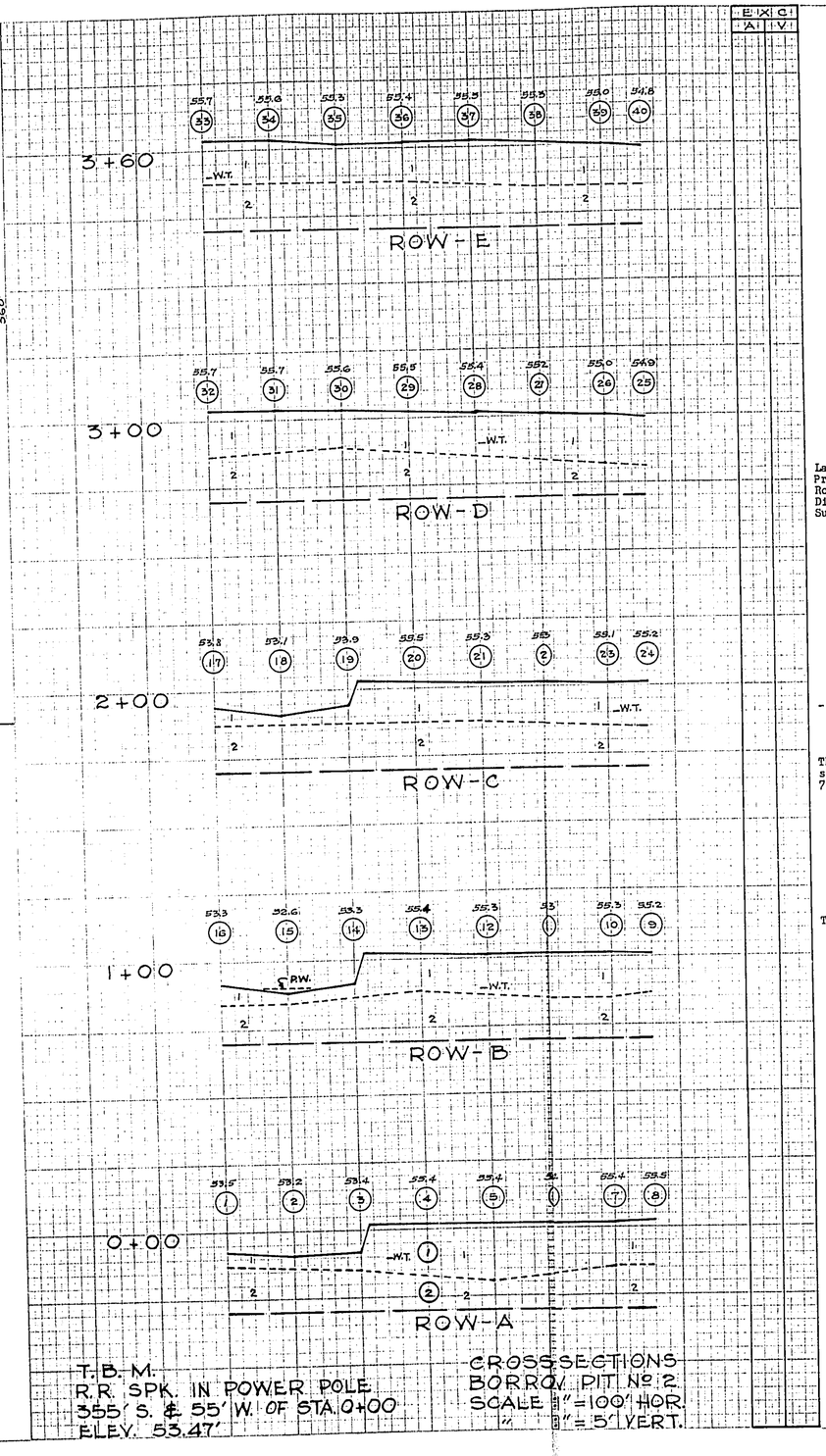
*Note: Pit is to be fenced by contractor prior to Excavating.

JOB No 1613-112 ROAD 60
POLK COUNTY
CLEARING & GRUBBING: NONE
WEATHER: DRY

STRATA DESCRIPTION
STRATUM NO.1 - LIGHT GREY SAND
" NO.2 - BROWN SAND

* Fence to be 4 strand barbed wire, 4 1/2' high, posts spaced at 10'.

SUBMITTED BY: H.M.JOHNSON, DIST. ENGR.
DISTRICT: FIRST
SURVEY BY: HARRINGTON & McCUE
DATE OF SURVEY: NOV. 8, 1956



T.B.M.
R.R. SPK. IN POWER POLE
355' S. & 55' W. OF STA.0+00
ELEV. 53.47'

CROSS SECTIONS
BORROW PIT No 2.
SCALE 1"=100' HOR.
" 1"=5' VERT.

SOIL TEST RESULTS

Laboratory No.: 32522-S
Project No.: 1613-112
Road No.: 60
District: First
Submitted By: H. M. Johnson

Date Sampled: 11/8/56
Date Received: 11/26/56
Date Tested: 11/28/56
Date Reported: 11/28/56
Sampled By: Harrington

REPORT OF TESTS OF MATERIAL FROM BORROW PIT FOR USE IN EMBANKMENT AND SUBGRADE

Stratum No.	Bearing value Lbs. Per Sq. Inch	Group
1	24	A-3
2	52	A-3

EMBANKMENT AND SUBGRADE
(75 lbs. bearing value required)

The material from Strata 1 and 2 appears satisfactory for use in embankment, but if used, the upper portion of grade should be constructed with selected material or stabilized with suitable material in the proper proportions so that a minimum bearing value of 75 pounds per square inch will be obtained in the 12 inches immediately below the proposed pavement or base.

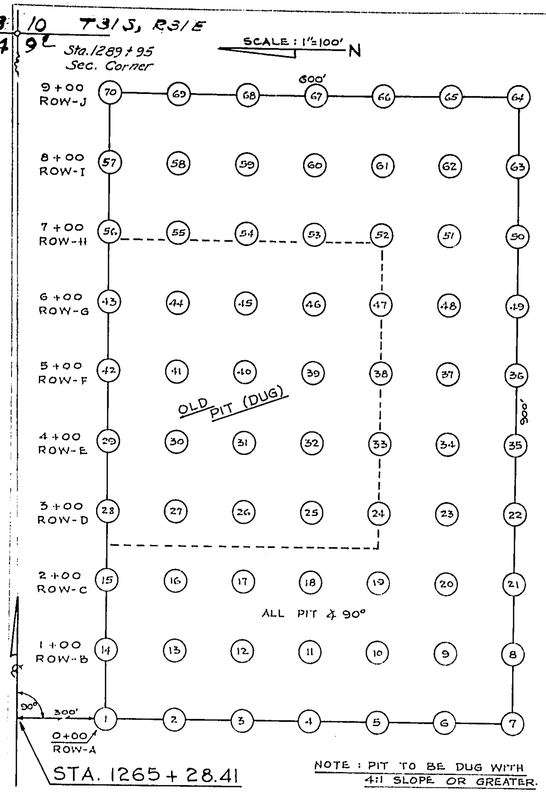
TESTED BY: Barber-Fitzstevens
h

Engineer of Materials & Tests

FED. ROAD DIV. NO.	STATE	PROJECT NO.	ROUTE NO.	SHEET NO.
3	FLA		56	13

STATE JOBS NOS 9207-107 & 1613-112

3 10 T31S, R31E
4 9E



NOTE : PIT TO BE DUG WITH 4:1 SLOPE OR GREATER.

BORROW PIT Nº 3

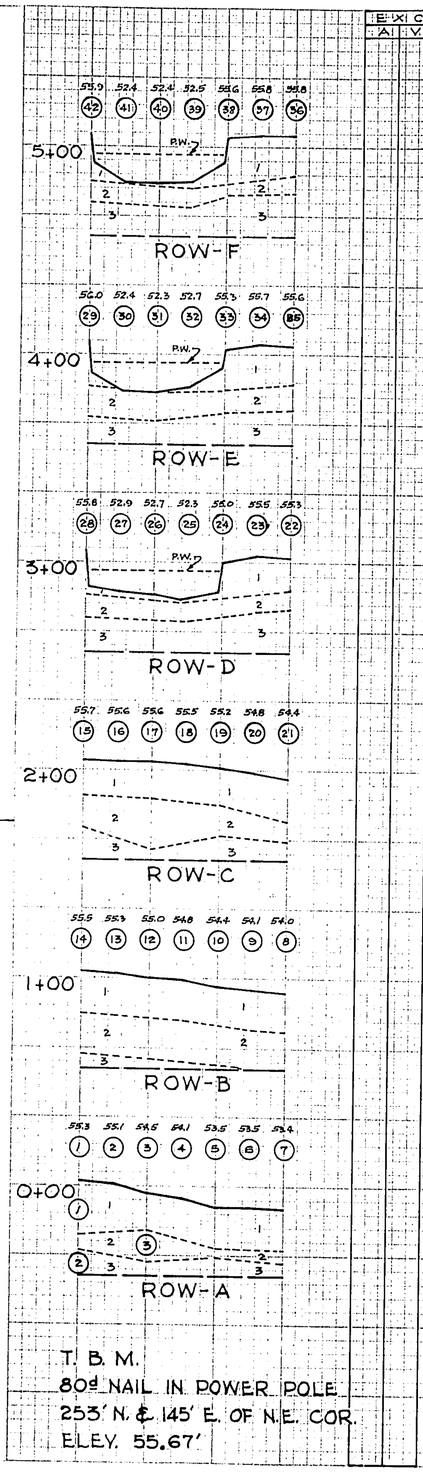
*Note: Pit is to be fenced by Contractor Prior to Excavating.

JOB Nº 1613-112 ROAD 60
POLK COUNTY
CLEARING & GRUBBING : NONE
WEATHER: DRY

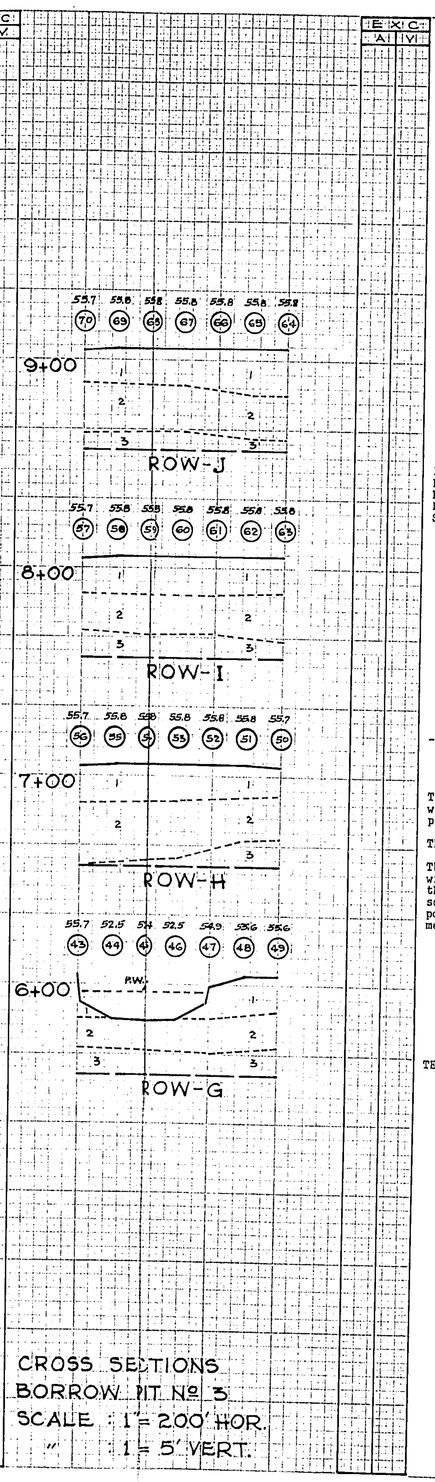
STRATA DESCRIPTION
STRATUM NO.1 - LIGHT BROWN SAND
" NO.2 - BROWN HARD PAN
" NO.3 - GREY SAND CLAY

* Fence to be 4 strand barbed wire, 4½' high, posts spaced at 10.'

SUBMITTED BY: H.M. JOHNSON, DIST. ENGR.
DISTRICT : FIRST
SURVEY BY: HARRINGTON & McCUE
DATE OF SURVEY: NOV. 9, 1956



T. B. M.
80d NAIL IN POWER POLE
253' N. & 145' E. OF N.E. COR.
ELEV. 55.67'



CROSS SECTIONS
BORROW PIT Nº 3
SCALE : 1" = 200' HOR.
" : 1 = 5' VERT.

SOIL TEST RESULTS

Laboratory No.: 32522-S
Project No.: 1613-112
Road No.: 60
District: First
Submitted By: H. M. Johnson

Date Sampled: 11/9/56
Date Received: 11/26/56
Date Tested: 11/28/56
Date Reported: 11/28/56
Sampled By: Harrington

REPORT OF TESTS OF MATERIAL FROM BORROW PIT FOR USE IN EMBANKMENT AND SUBGRADE

Stratum No.	Bearing value Lbs. Per Sq. Inch	MECHANICAL ANALYSIS % Coarse Sand 2-.25mm 10M-60M	% Fine Sand .25-.05mm 60M-270M	% Total Sand	% Silt .05 to .005mm	% Clay less than .005mm	% Pass 40 Mesh	% Pass 60 Mesh	% Pass 200 Mesh	CONSTANTS MATERIAL PASSING NO. 40 SIEVE Liquid Limit	Plastic Index	Group
1	23											A-3
2	102											A-3
3	220+	5	72	77	5	18	99	95	25	38	21	A-6

EMBANKMENT AND SUBGRADE
(75 lbs. bearing value required)

The material from Stratum 1 appears satisfactory for use in embankment, but if used, the upper portion of grade should be constructed with selected material or stabilized with suitable material in the proper proportions so that a minimum bearing value of 75 pounds per square inch will be obtained in the 12 inches immediately below the proposed pavement or base.

The material from Stratum 2 appears satisfactory for use in embankment or subgrade.

The material from Stratum 3 is of the A-6 subsoil group and is not satisfactory for use in embankments unless compacted in accordance with standard specifications, and then covered with a minimum of 12 inches of material of the A-1, friable A-2 or A-3 subsoil group the entire width of roadway from slope to slope. If material of the A-3 subsoil group having bearing values less than 75 pounds per sq. inch is used as backfill, it will be necessary to stabilize the upper portion of grade with suitable material in the proper proportions so as to provide a minimum of 12 inches of 75 pounds or greater bearing value material of a satisfactory subsoil group immediately below the proposed pavement or base.

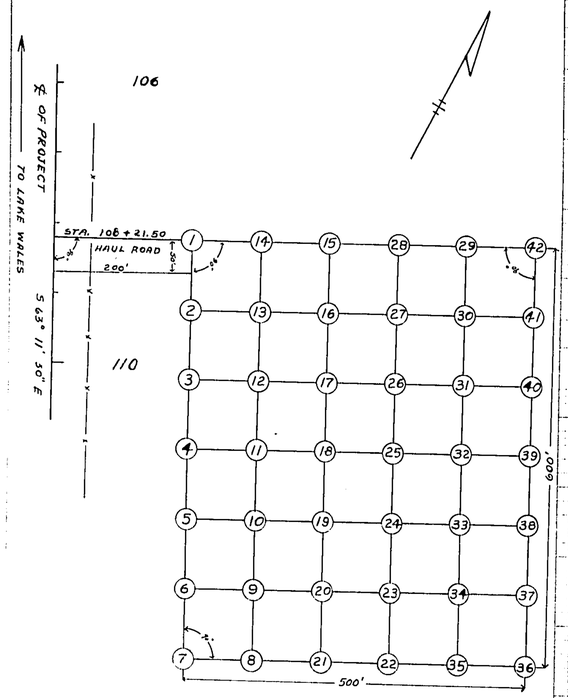
TESTED BY: Barber-Fitzstevens
h

Engineer of Materials & Tests

STATE	COUNTY	ROAD	PROJECT	SHEET NO.
FLA.	OSCEOLA & POLK	60	9207-107 & 1613-112	14

B.M. Nº E-36 ELEV. 59.89

U.S.C. & G. B.M. E-63 — OSCEOLA COUNTY



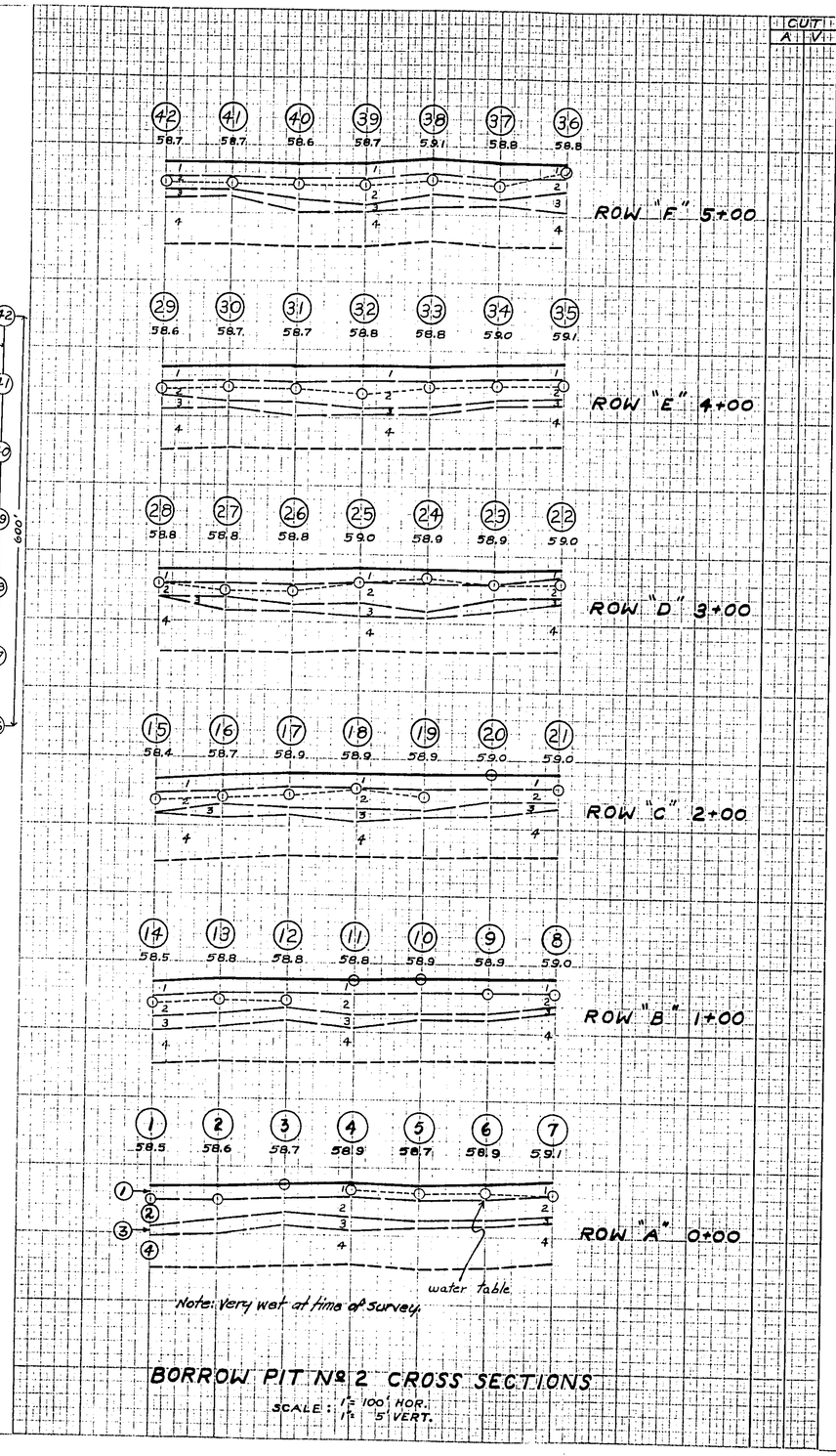
SCALE: 1" = 100'

CLEARING & GRUBBING: MEDIUM (LOW PALMETTO)

BORROW PIT Nº 2
SECTION 9207-107 ROAD 60
OSCEOLA COUNTY

DESCRIPTION OF STRATA
STRATUM Nº 1 : GREY SAND (TOPSOIL)
" " 2 : MEDIUM FINE WHITE SAND
" " 3 : BROWN SAND
" " 4 : TAN SAND

SUBMITTED BY : RICHEY GREEN
DISTRICT : FIFTH
SURVEYED BY : BELL, DOUGLASS & RIDENOUR
DATE SURVEYED : OCTOBER 22-23, 1956



BORROW PIT Nº 2 CROSS SECTIONS

SCALE: 1" = 100' HOR.
1" = 5' VERT.

SOIL TEST RESULTS

Laboratory No.: 32145-C
Project No.: 9207-107
Road No.: 60
District: Fifth
Submitted By: Richey Green

Date Sampled: 10/23/56
Date Received: 10/31/56
Date Tested: 11/1/56
Date Reported: 11/1/56
Sampled By: Bell

REPORT OF TESTS OF MATERIAL FROM BORROW PIT FOR USE IN EMBANKMENT AND SUBGRADE

Stratum No.	Bearing value Lbs. Per Sq. Inch	Group
1	23	A-3
2	15	A-3
3	80	A-3
4	58	A-3

EMBANKMENT AND SUBGRADE
(75 lbs. bearing value required)

The material from Strata 1, 2 and 4 appears satisfactory for use in embankment, but if used, the upper portion of grade should be constructed with selected material or stabilized with suitable material in the proper proportions so that a minimum bearing value of 75 pounds per square inch will be obtained in the 12 inches immediately below the proposed pavement or base.

The material from Stratum 3 appears satisfactory for use in embankment or subgrade.

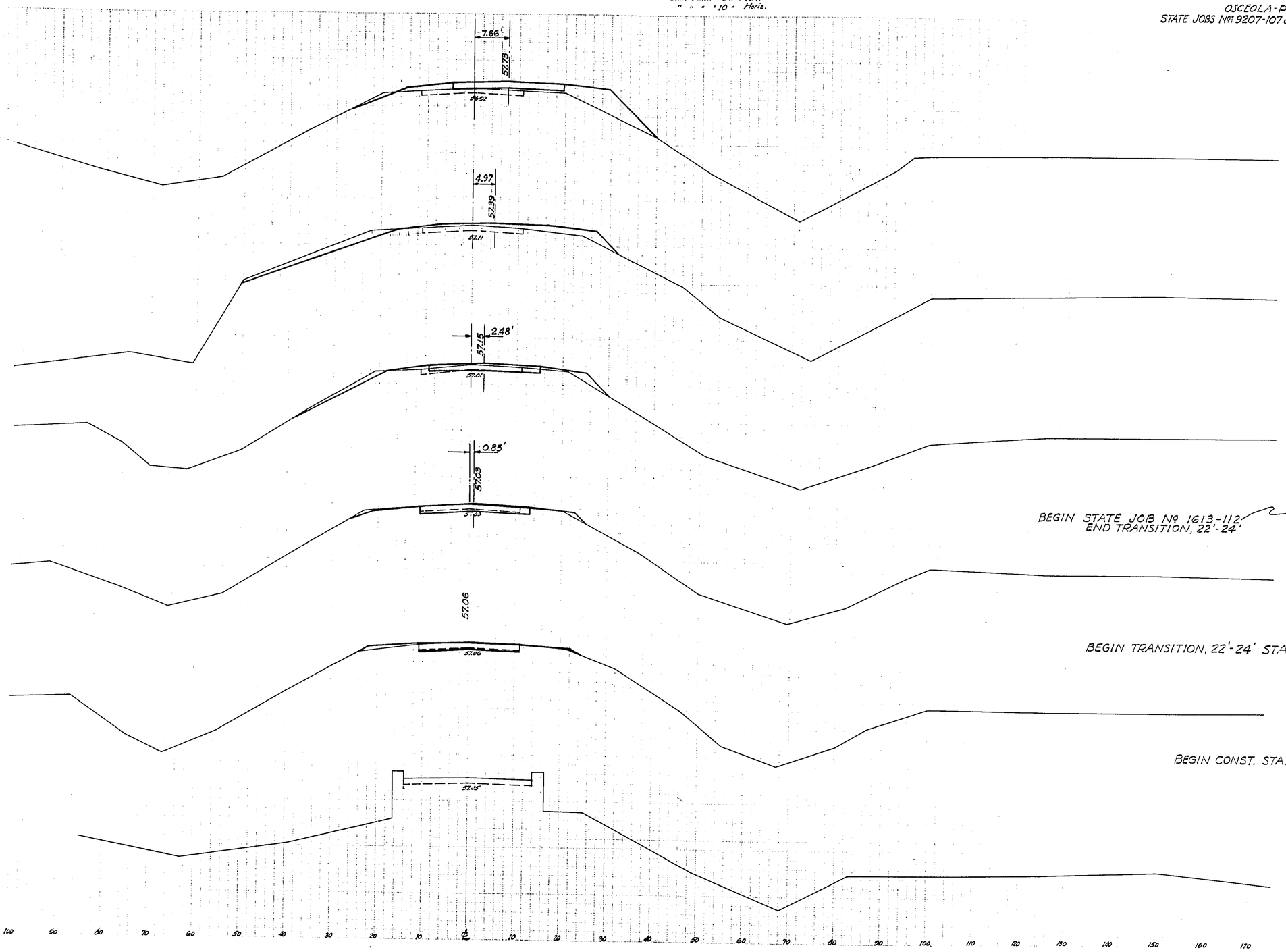
TESTED BY: Jones-Barber
h

Engineer of Materials & Tests

CROSS SECTIONS

Scale 1 inch = 5 feet Vert.
" " " = 10 " Horiz.

OSCEOLA-POLK CO. 15
STATE JOBS Nos 9207-107 and 1613-112



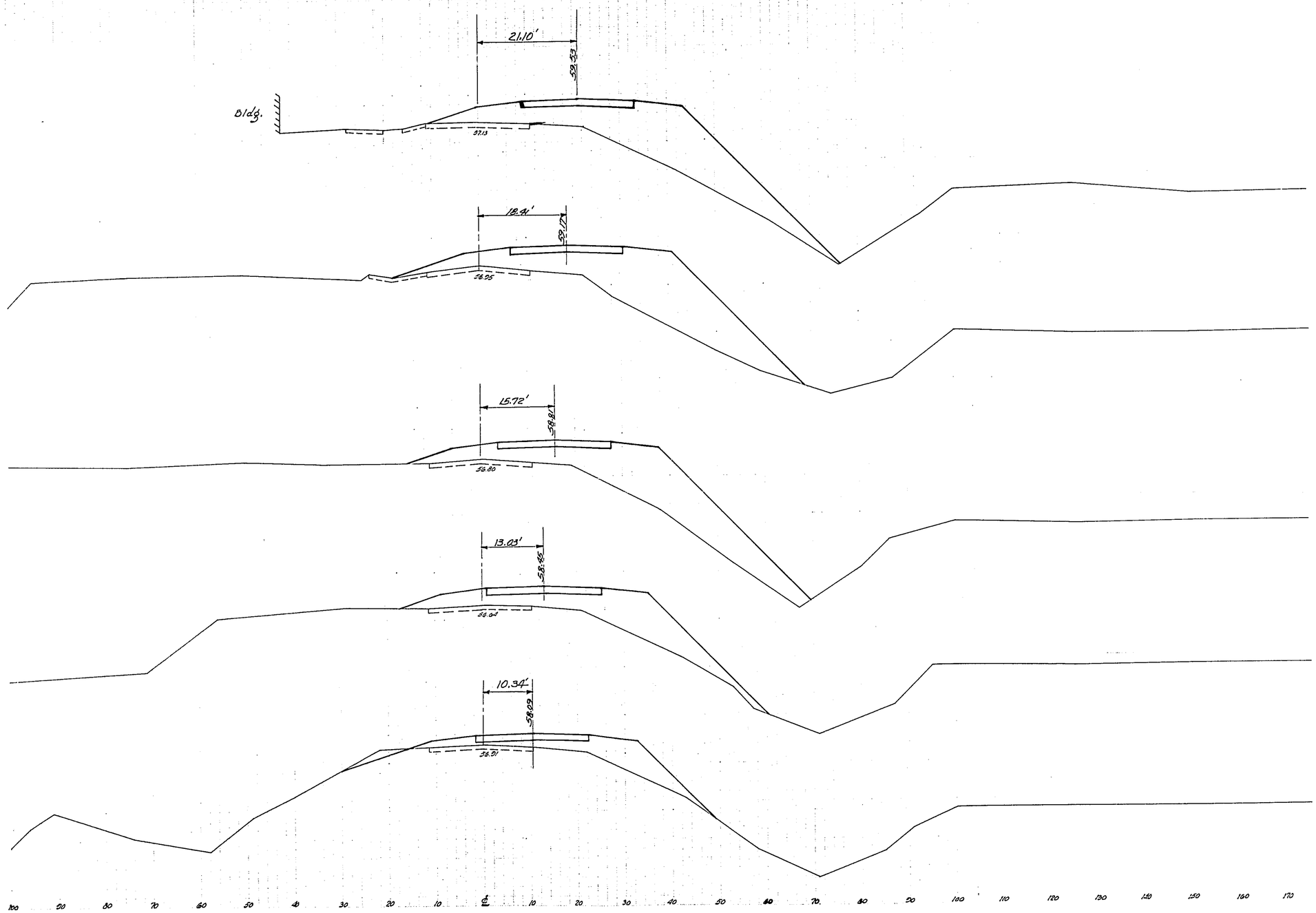
	Area C	Area F	Volume C	Volume F
25+00	6	42		
			39	96
24+00	15	10		
			50	31
23+00	12	7		
			48	17
BEGIN STATE JOB No 1613-112 END TRANSITION, 22'-24' → 22+00	14	2		
			26	13
BEGIN TRANSITION, 22'-24' ST.A. 21+00	0	5		
			0	5
BEGIN CONST. STA. 20+56				
20+00	0	0		

CROSS SECTIONS

Scale 1 inch = 5 feet Vert.
" " = 10 " Horiz.

OSCEOLA-POLK 60
STATE JOBS 9207-107 & 1613-112

16

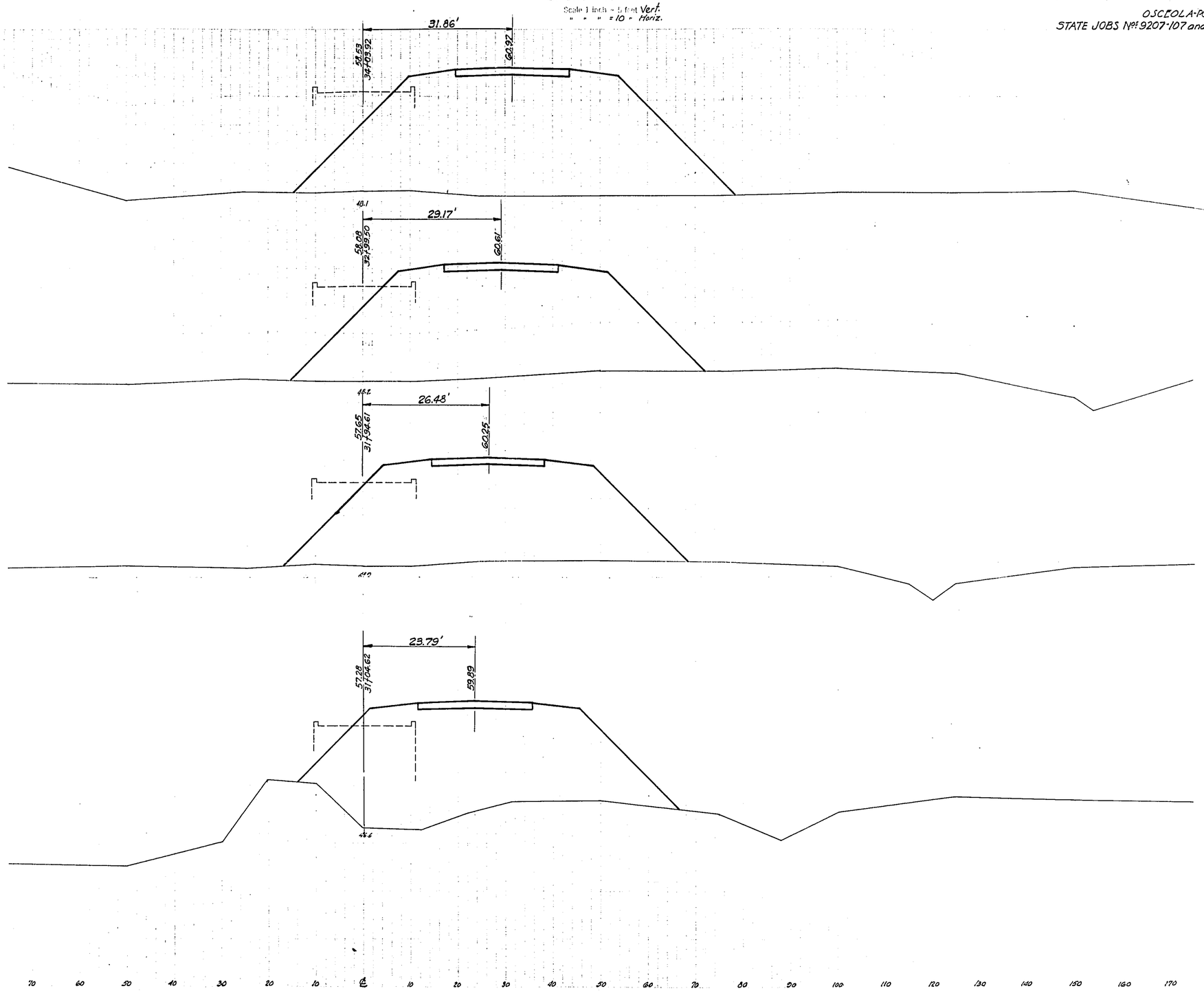


	Area C	Area F	Volume C	Volume P
30+00	0	270		
			0	1030
29+00	0	286		
			0	1004
28+00	0	256		
			0	757
27+00	0	153		
			7	413
26+00	4	86		
			19	237

CROSS SECTIONS

Scale 1 inch = 5 feet Vert.
" " " = 10 " Horiz.

OSCEOLA-POLK 60 — 17
STATE JOBS Nos 9207-107 and 1613-112



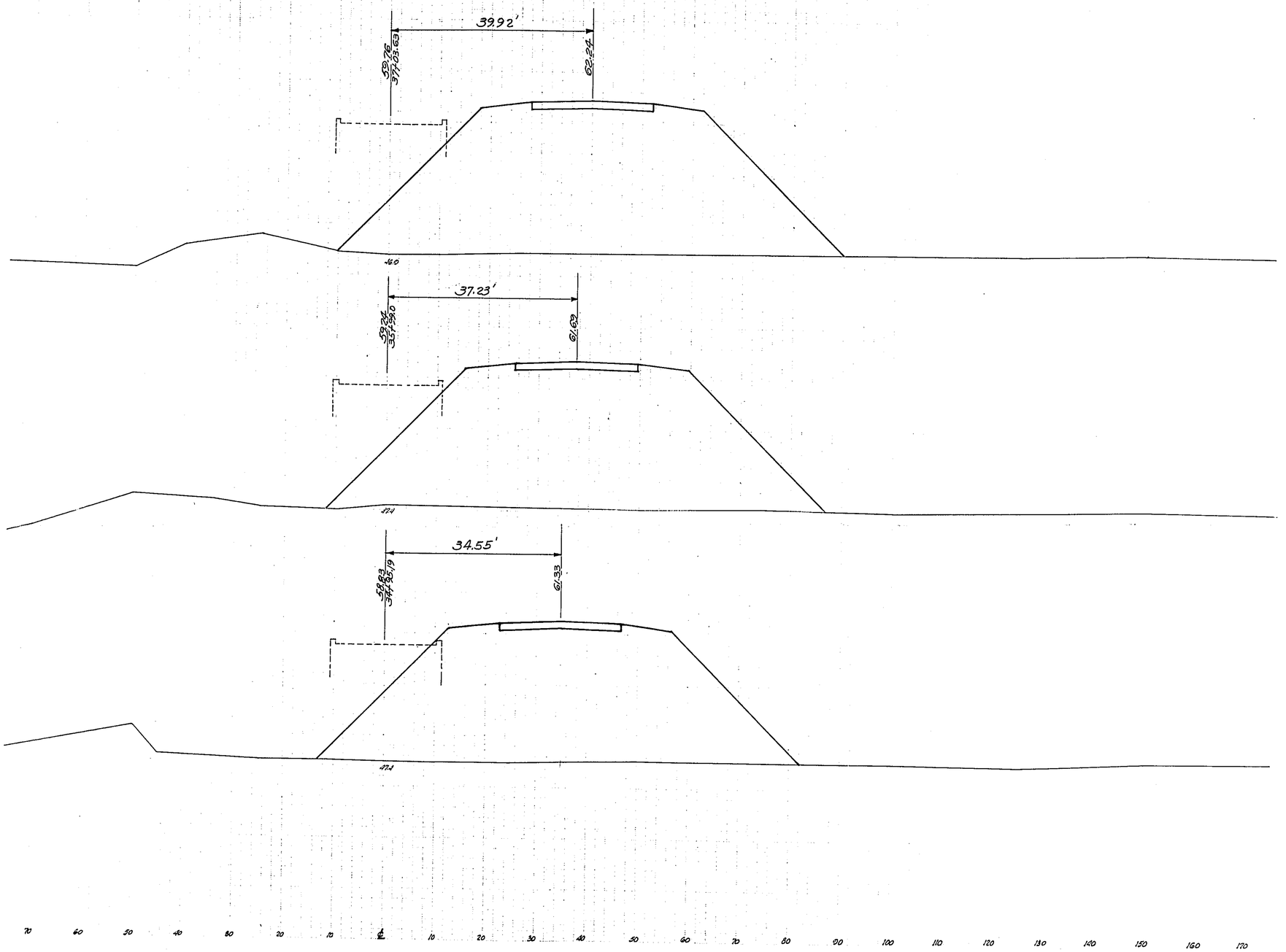
	Area C	Area F	Volume C	Volume F
34+00	0	850		
			0	2944
33+00	0	740		
			0	2622
32+00	0	676		
			0	2531
31+00	0	691		
			0	1780

CROSS SECTIONS

Scale 1 inch = 5 feet Vert.
" " = 10 " Horiz.

OSCEOLA-POLK 60
STATE JOBS 9207-107 & 1613-112

18



	Area C	Area P	Volume C	Volume P
37100	0	1037		
			0	3752
36100	0	989		
			0	3569
35100	0	938		
			0	3311

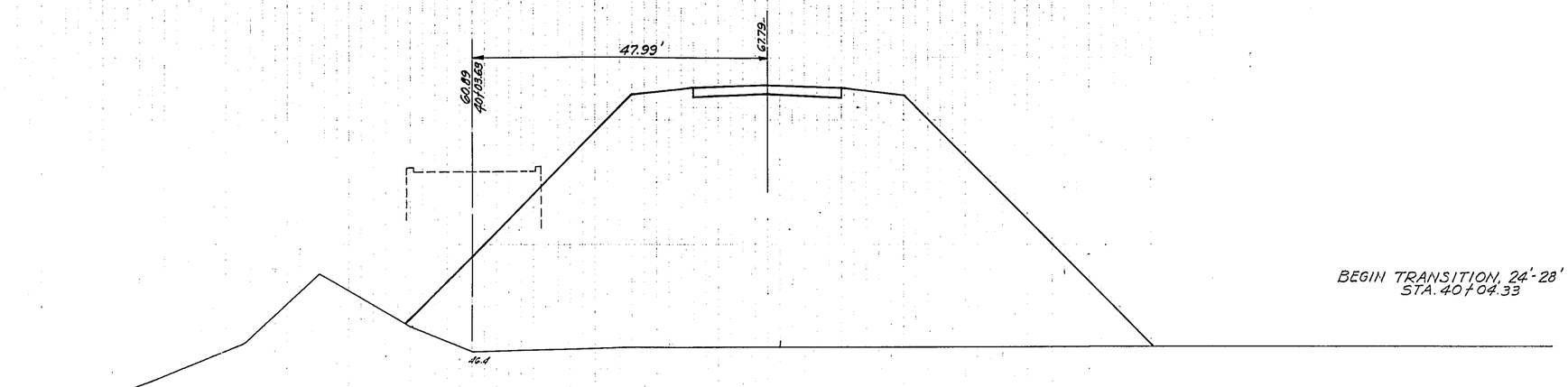
CROSS SECTIONS

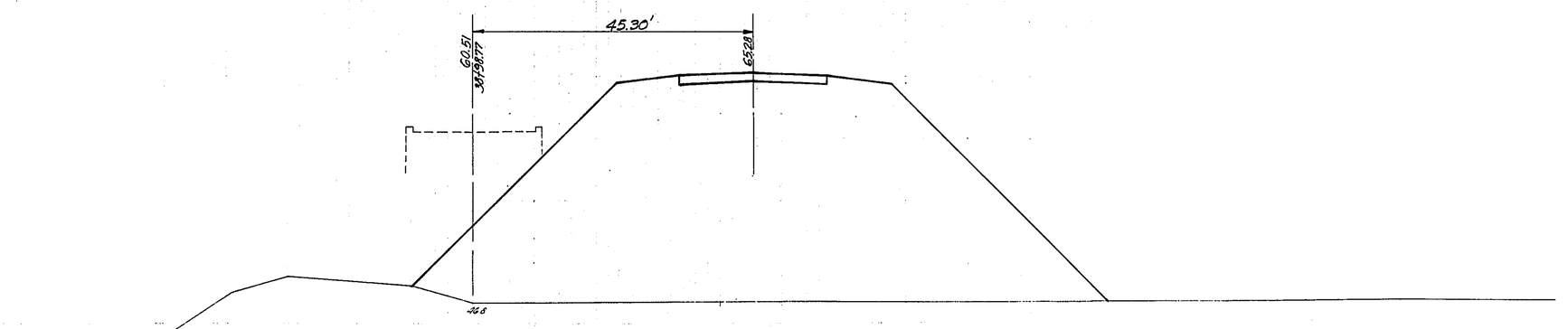
Scale: 1 inch = 5 feet Vert.
" " = 10 " Horiz.

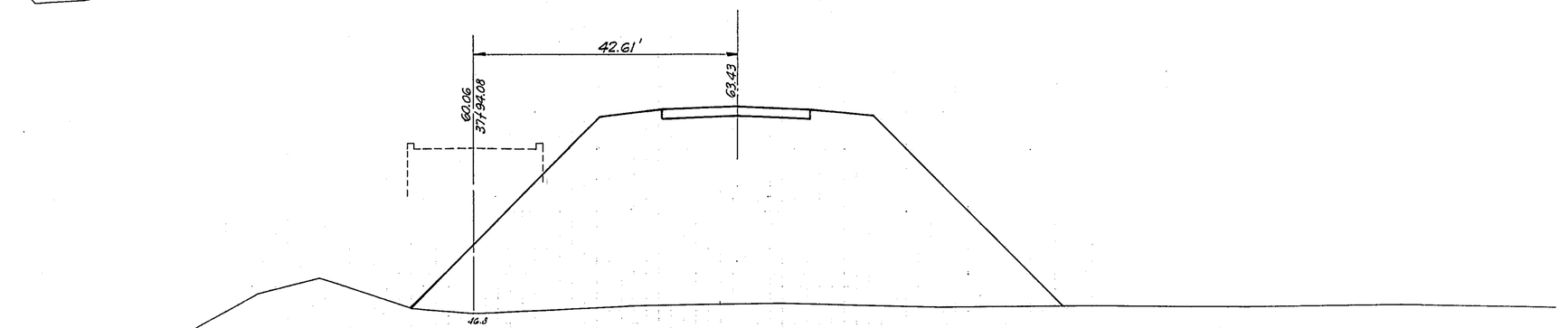
OSCEOLA-POLK CO
STATE JOBS Nos. 9207-107 and 1613-112

19

BEGIN TRANSITION, 24'-28'
STA. 401+04.33







	Area C	Area F	Volume C	Volume F
40+00	0	1530		
	0	1725		
			0	5817
39+00	0	1416		
			0	4820
38+00	0	1187		
			0	4119

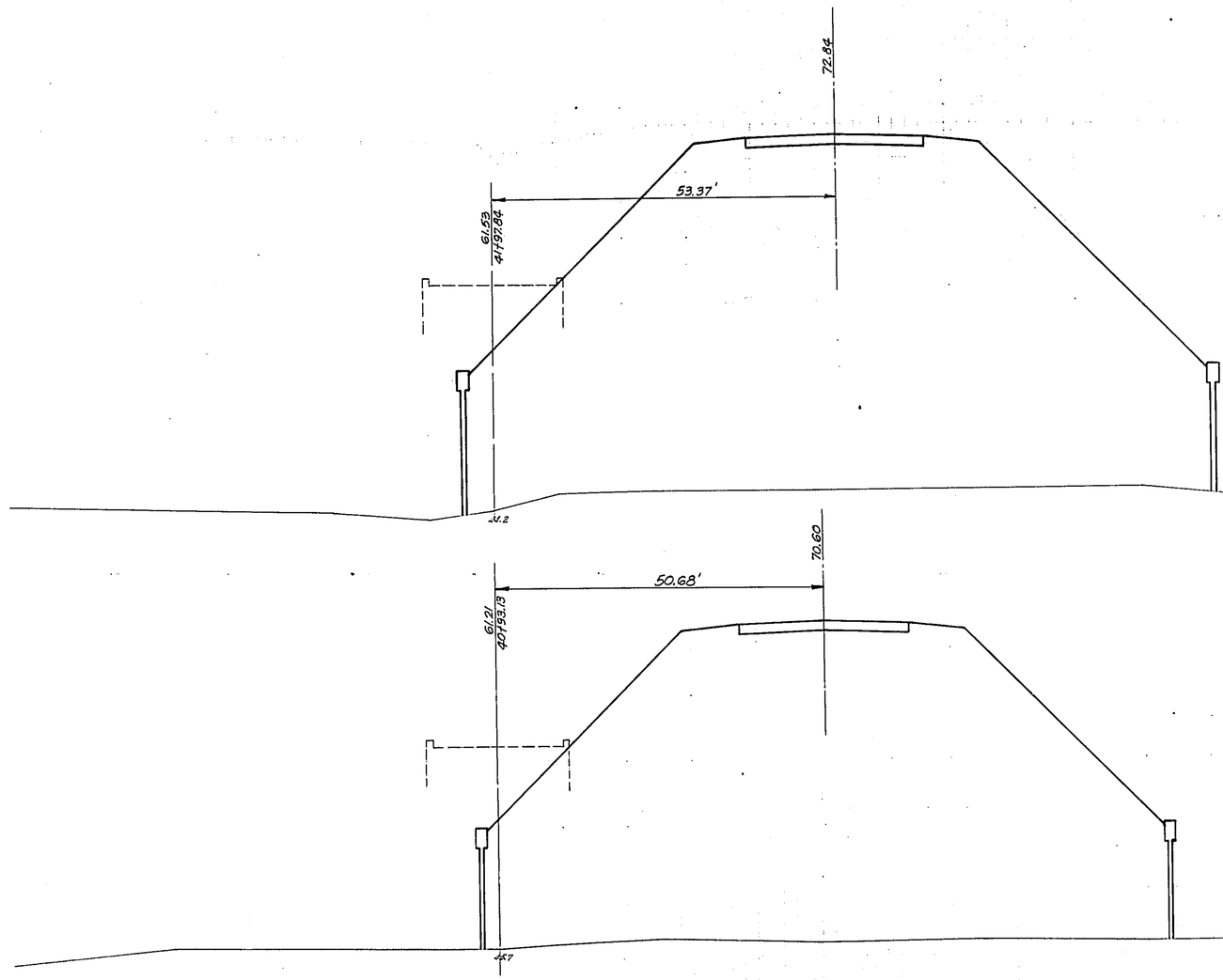
100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

JKGJH

CROSS SECTIONS

Scale: 1" = 10' Vert.
1" = 10' Horiz.

OSCEOLA-POLK 60
STATE JOBS Nos 9207-107 and 1613-112



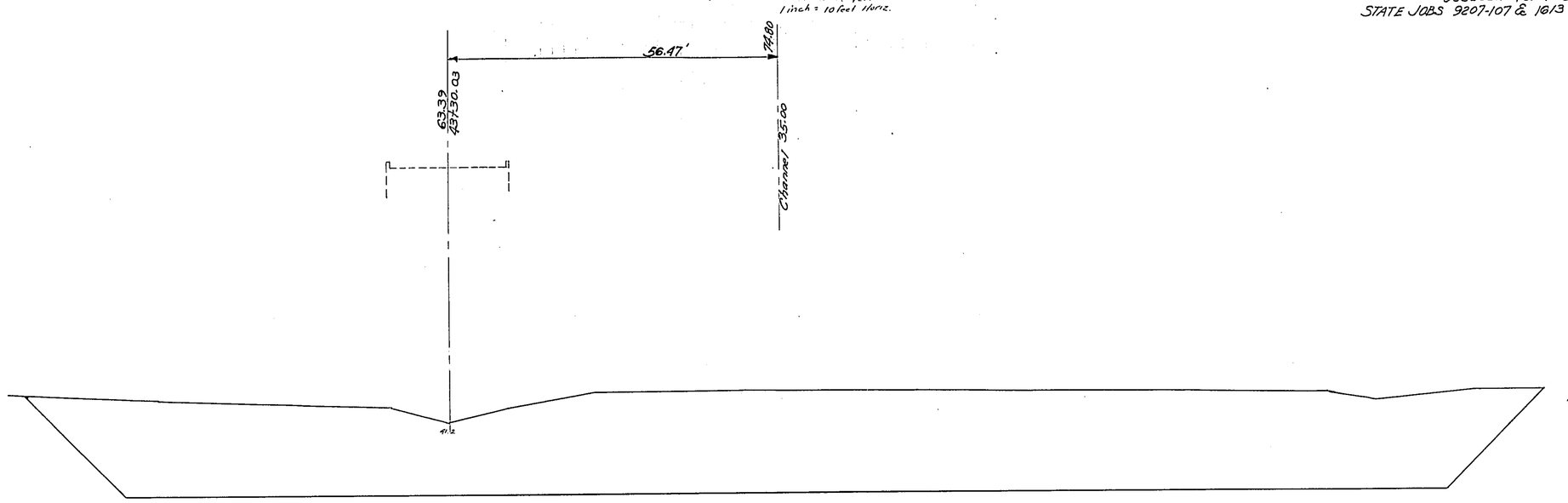
Station	Area C	Area F	Volume C	Volume F
42+60.91 Toe of slope	0	0		
	0	1118		
			0	1200
42+38, End Berm	0	2250		
				1033
BEGIN BRIDGE BEGIN STATE JOB No 9207-107 END STATE JOB No 1613-112 END APPROACH SLAB 42+24.33, Beg. Berm	0	2250		
	0	2520		
			0	2333
BEGIN APPROACH SLAB END TRANSITION, 24'-28' STA. 42+04.33				
42+00	0	2520		
			0	8585
41+00	0	2105		
			0	6731

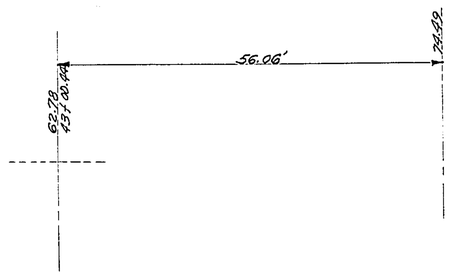
Roadway Excav. = 189 CY
Borrow Excav. = 78,949 CY
Fill + 40% = 79,138 CY

CROSS SECTIONS

Vert.
1 inch = 10 feet Horiz.

OCSEOLA-POLK CO
STATE JOBS 9207-107 & 1613-112

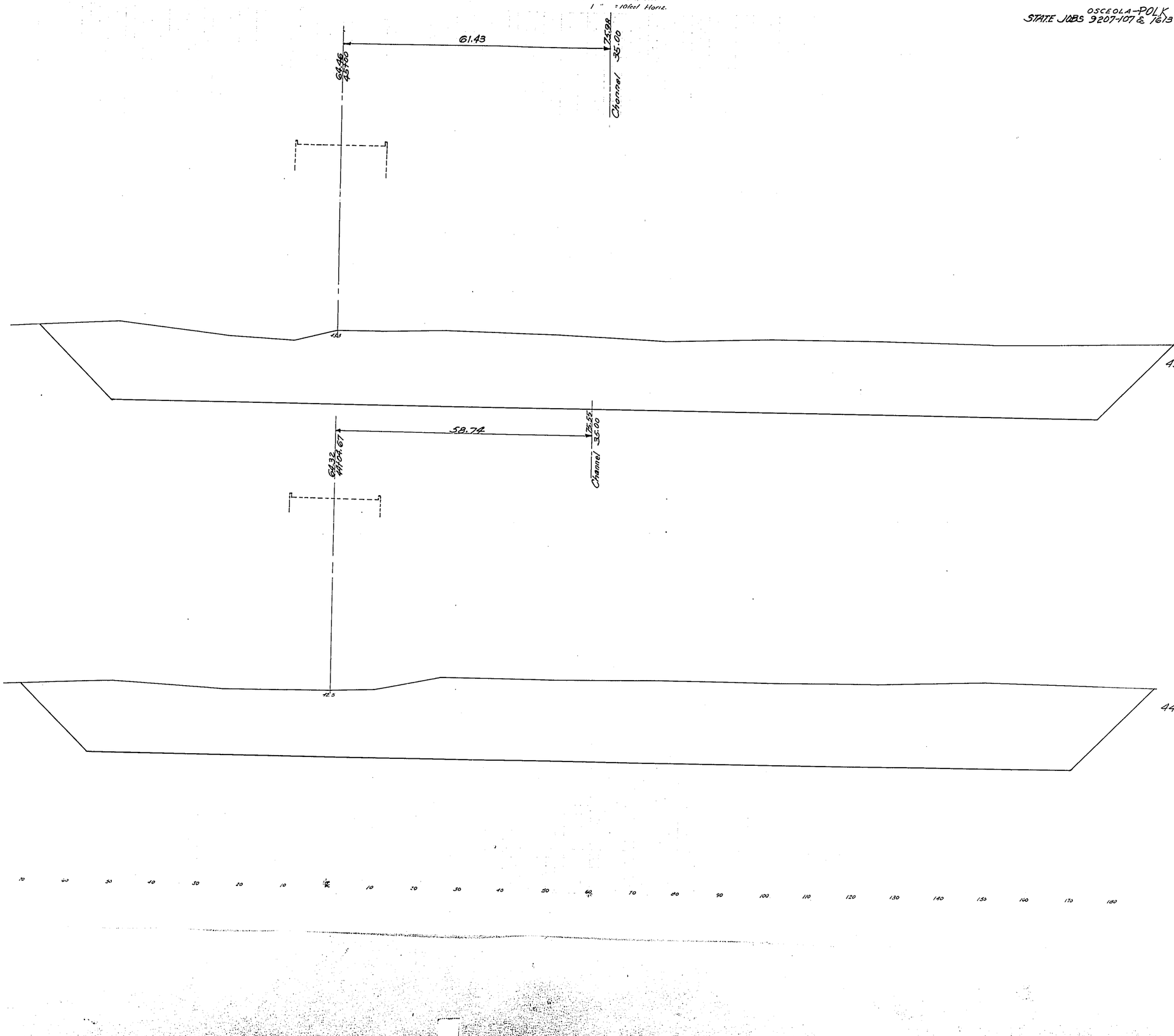




	Area		Volume	
	C	F	C	F
43+29.33	2028	0		
			661	0
43+06.73	0	0		
			0	0
43+00	0	0		

90 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

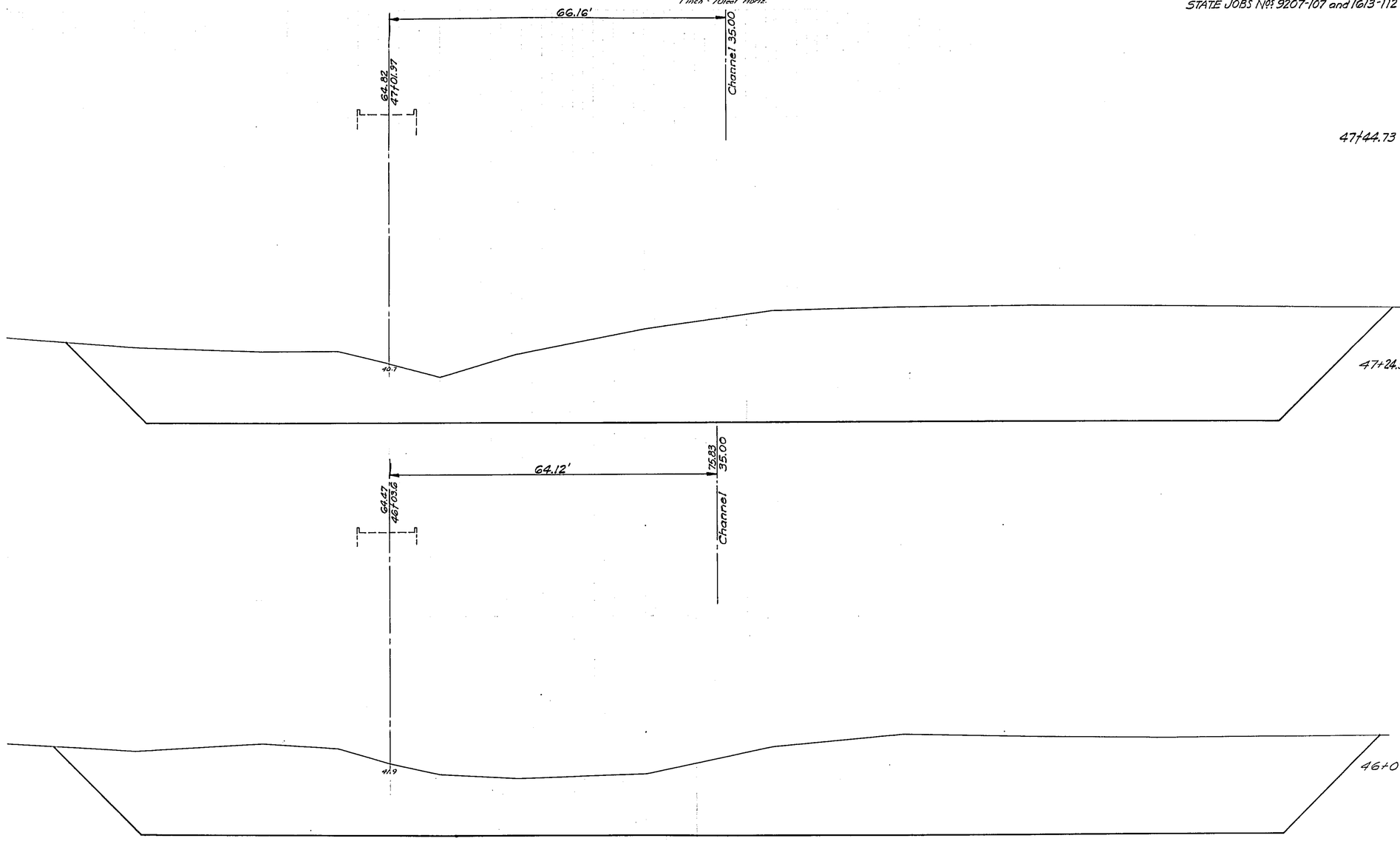
CROSS SECTIONS
Scale: Inch = 5 feet Vert
1 " = 10 feet Horiz.



Station	Area C	Area F	Volume C	Volume F
45+00	2035	0		
	7741	0		
44+00	2145	0		
	5848	0		

CROSS SECTIONS
Scale: 1 inch = 10 feet Vert.
1 inch = 10 feet Horiz.

OSCEOLA-POLK 60
STATE JOBS Nos. 9207-107 and 1613-112

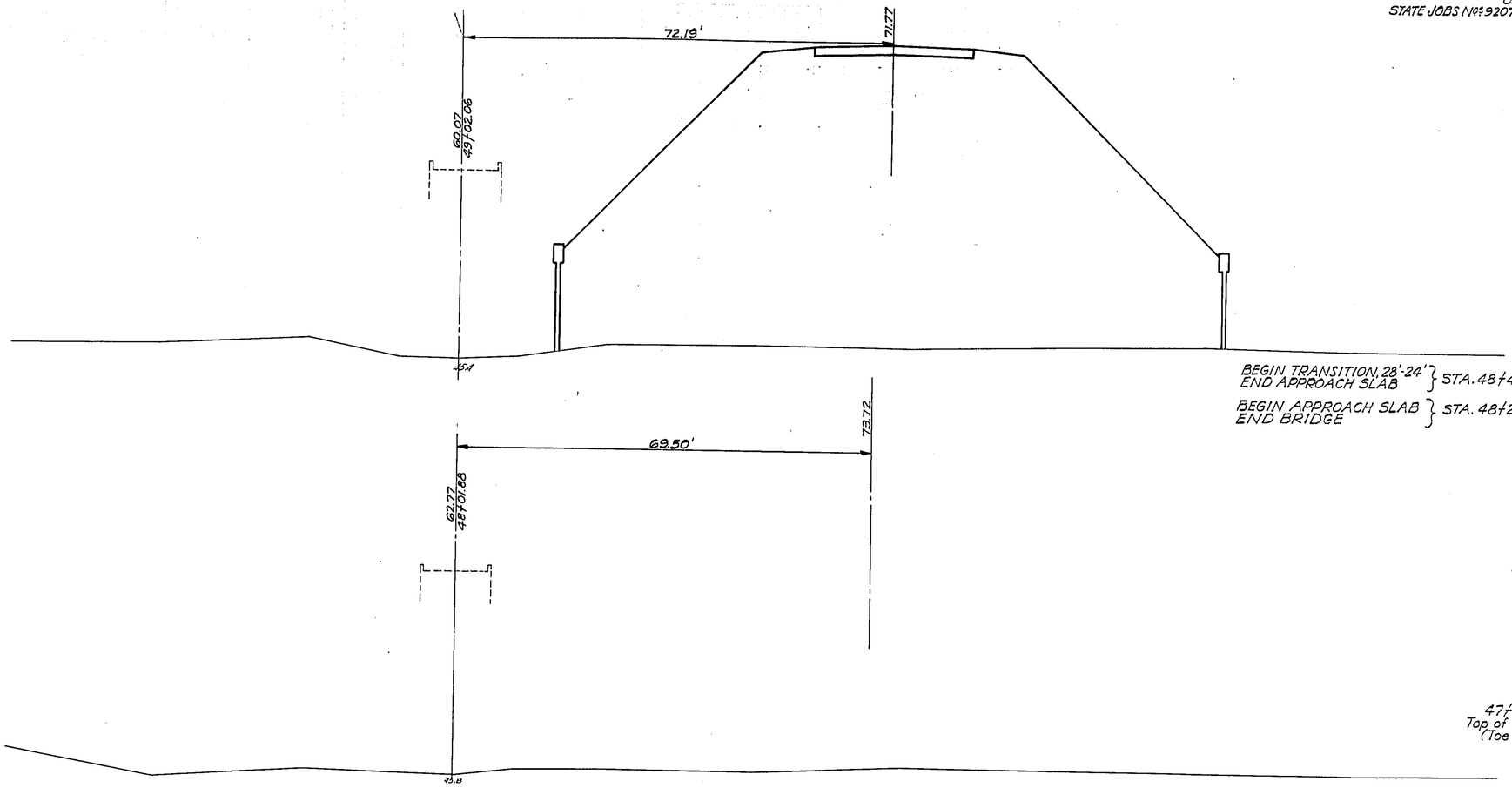


Station	Area C	Area F	Volume C	Volume F
47+44.73	0	0		
			857	
47+24.33	2268	0		
			9985	0
46+00	2069	0		
			7600	0

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

CROSS SECTIONS

Vert. 1 inch = 5 ft.
Horiz. " " = 10 "



OJC 501A-POLK 60
STATE JOBS Nos 9207-107 and 1613-112

Sht. No. 24

Area C	Area F	Volume C	Volume F		
				40+00	BEGIN TRANSITION, 28'-24' } STA. 48+44.33 END APPROACH SLAB }
0	2186		6180		BEGIN APPROACH SLAB } STA. 48+24.33 END BRIDGE
0	2186				
0	1942				48+23.66 End Berm
		0	911		
0	1942				48+11.00 Top of Berm (Top of Slope)
		0	1219		
0	890				47+87.75 Top of Bulkhead (Toe of slope)
				48+00	

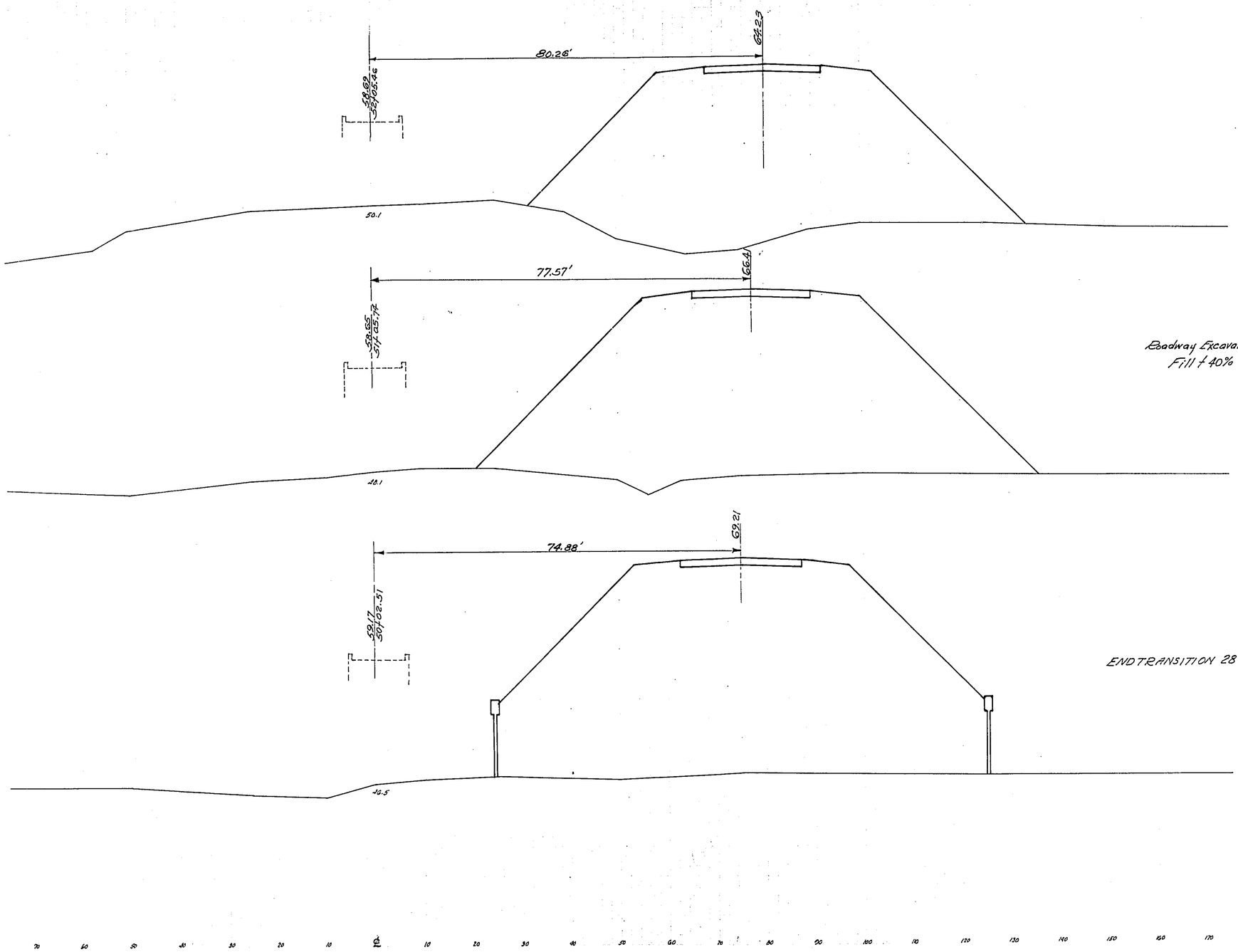
80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180

CROSS SECTIONS

Vert. = 10 feet Horiz.

OSCEOLA-POLK 60
STATE JOBS 9207-107 & 1613-112

25



Station	Area C	Area F	Volume C	Volume F
52+00	0	1232		
			0	3469
F31			0	5057
			0	1588
51+00	0	1499		
			0	3273
	0	1887		
		1346		
			0	2051
50+00	0	971		
			0	5846

Roadway Excavation 32,692 ♯
Fill + 40% 32,692 ♯

END TRANSITION 28'-24' STA 50+44.33

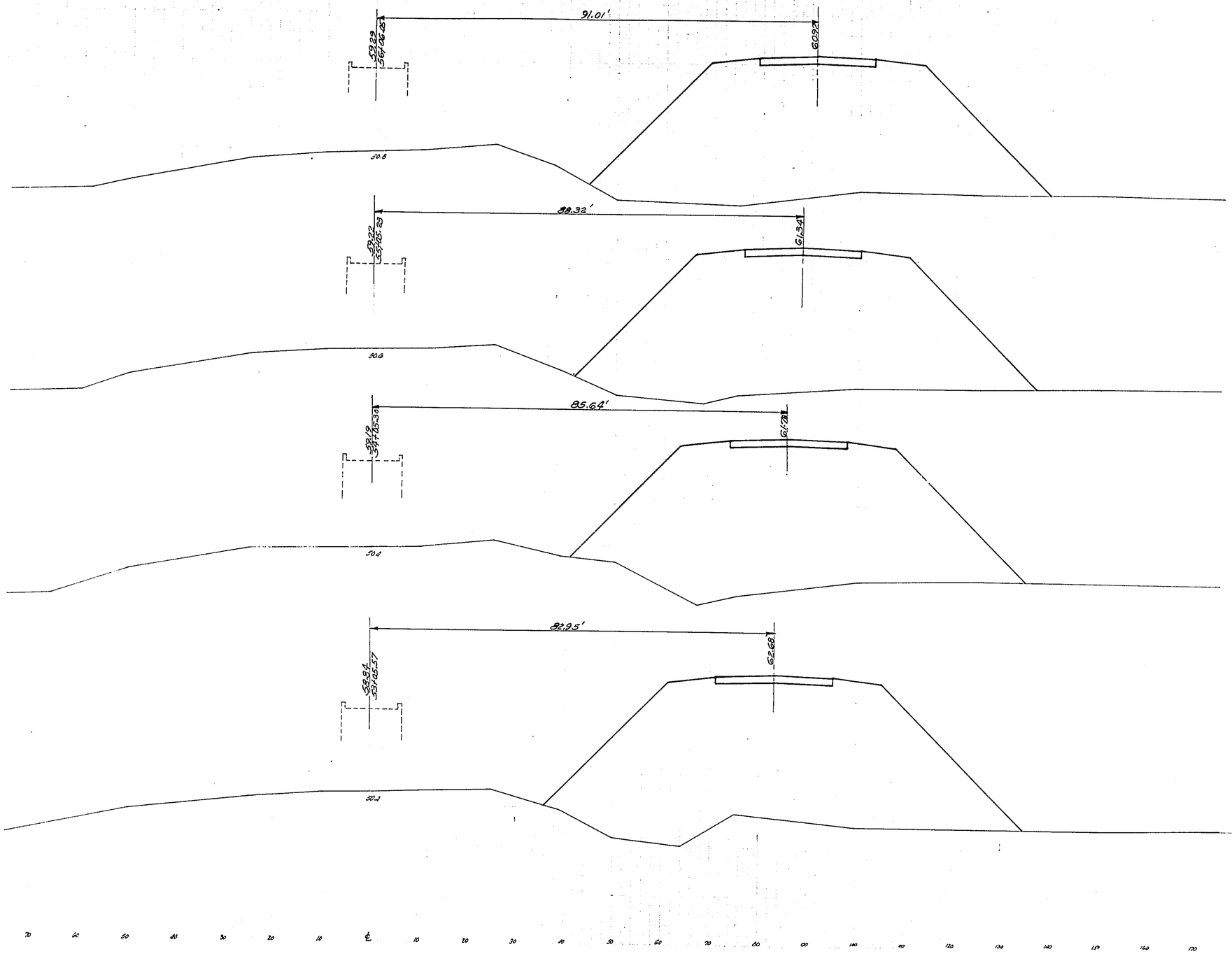
2 K G J H.

CROSS SECTIONS

Scale 1 inch = 5 feet Vert.
" " = 10 " Horiz.

OSCEOLA-POLK GO
STATE JOBS 9207-107 & 1613-112

26



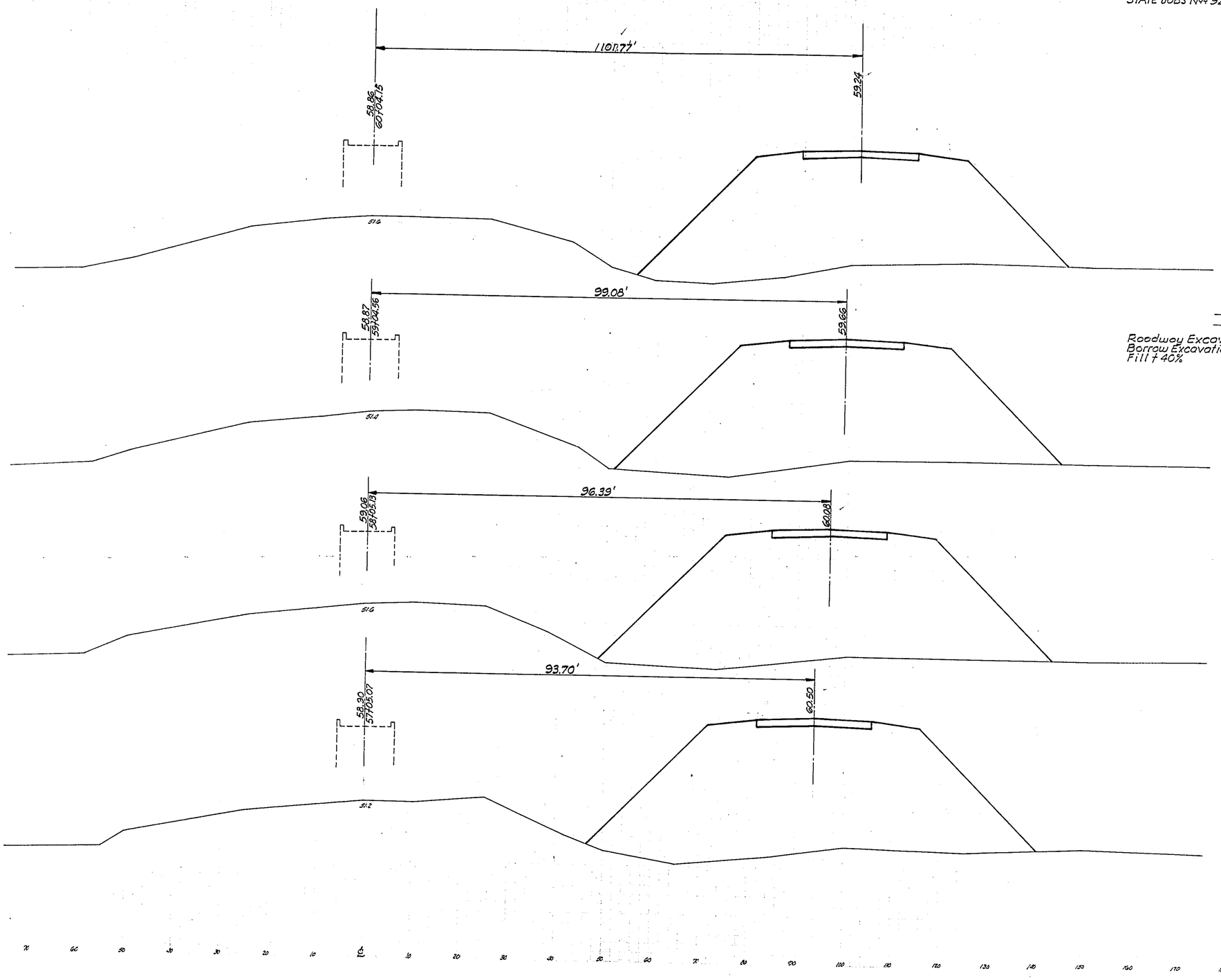
	Area C	Area F	Volume C	Volume F
56+00	0	977		
			0	3681
55+00	0	1011		
			0	3709
54+00	0	992		
			0	3833
53+00	0	1078		
			0	4278

CROSS SECTIONS

Scale 1 inch = 5 feet Vert.
" " " = 10 " Horiz.

OSCEOLA-POLK 60
STATE JOBS Nos 9207-107 and 1613-112

27



	Area C	Area F	Volume C	Volume F
60+00	0	778		
			0	2314
59+22			0	2976
			0	662
59+00	0	829		
			0	3253
58+00	0	917		
			0	3535
57+00	0	992		
			0	3646

Roadway Excav. = 0 C.Y.
Borrow Excavation = 42,064 C.Y.
Fill + 40% = 42,064 C.Y.

CROSS SECTIONS
1" = 10' Vert.
1" = 10' Horiz.

OSCEOLA-POLK CO
STATE JOBS Nos 9207-107 and 1613-112

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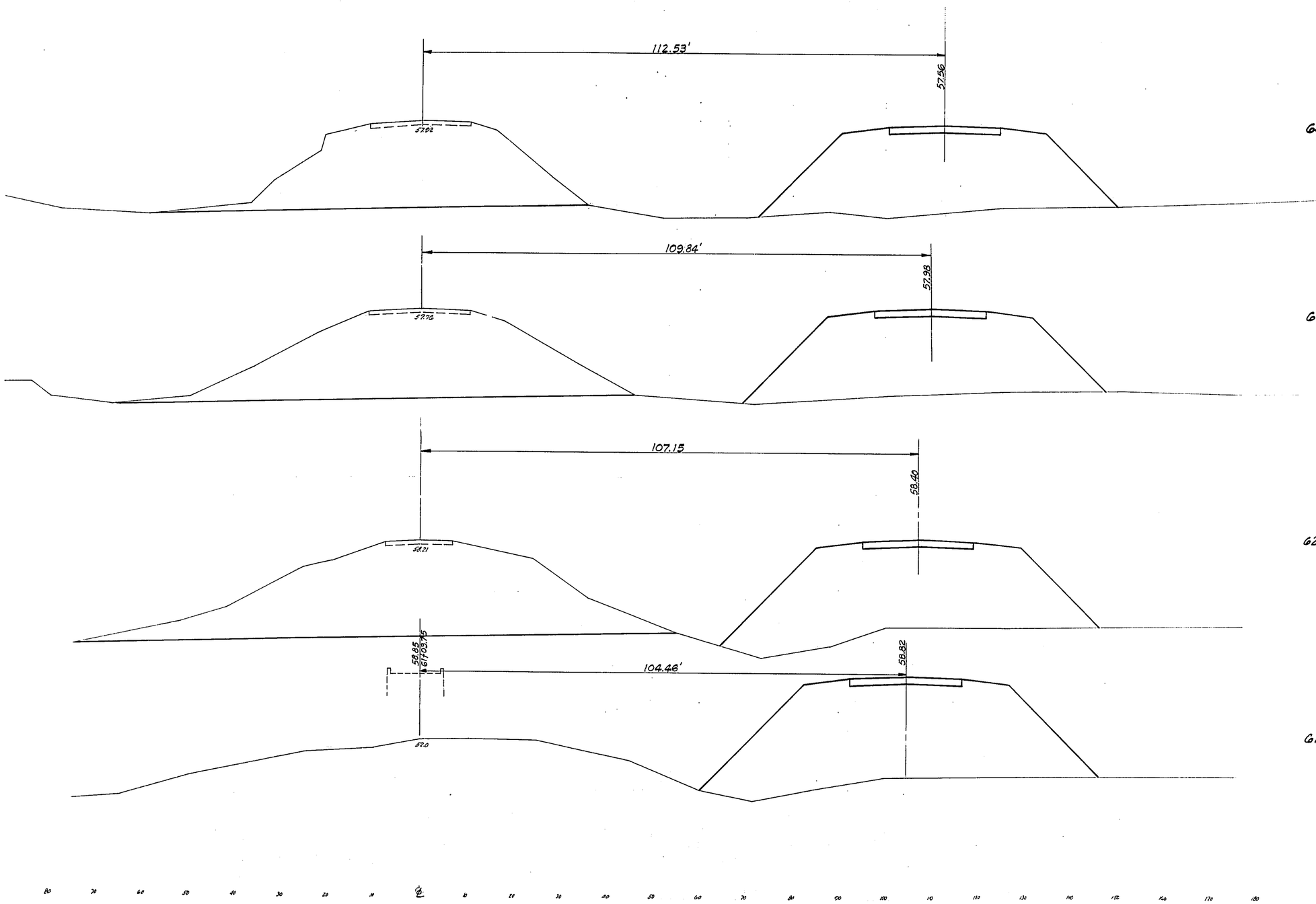
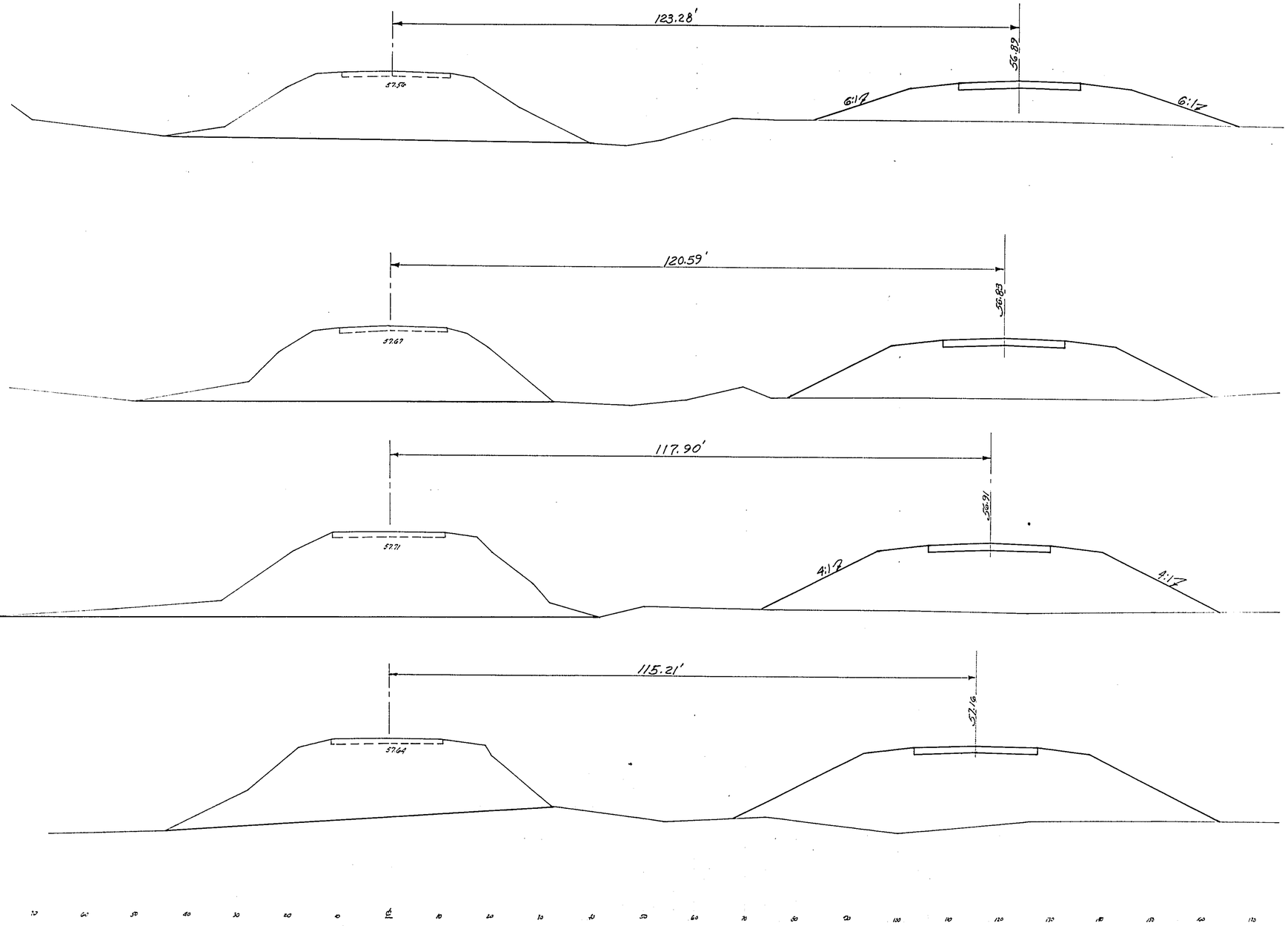


	Area C	Area F	Volume C	Volume F
64+00	500	513		
			2019	1924
63+00	590	526		
			2430	2102
62+00	722	609		
			1337	2426
61+00	0	701		
			0	2739

D.K. & J.H.

CROSS SECTIONS
Scale: 1" = 10' Vert.
" " " = 10' Horiz.

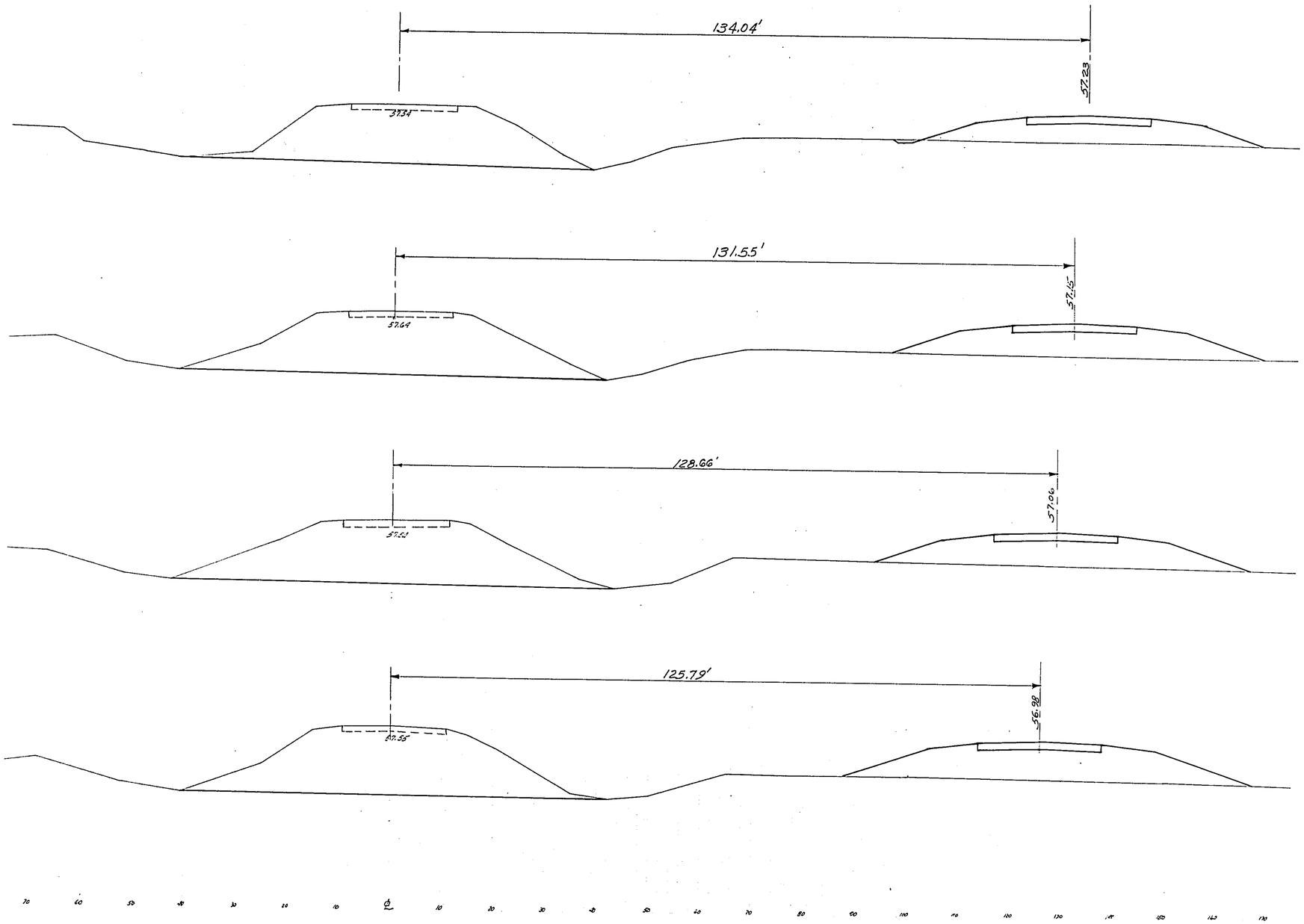
OSCEOLA-POLK GO
STATE JOB 9207-107 & 1613-112



	Area C	Area F	Volume C	Volume F
68+00	345	203		
			1320	994
67+00	368	334		
			1435	1376
66+00	407	409		
			1507	1707
65+00	407	513		
			1680	1900

CROSS SECTIONS
Scale 1 inch = 10 ft. Vert.
" " " = 10 " Horiz.

OSCEOLA-POLK 60
STATE JOB 9207-107 & 1613-112



	Area C	Area F	Volume C	Volume F
72+00	286	112		
			1130	480
71+00	324	147		
			1198	554
70+00	323	152		
			1217	637
69+00	334	192		
			1257	731

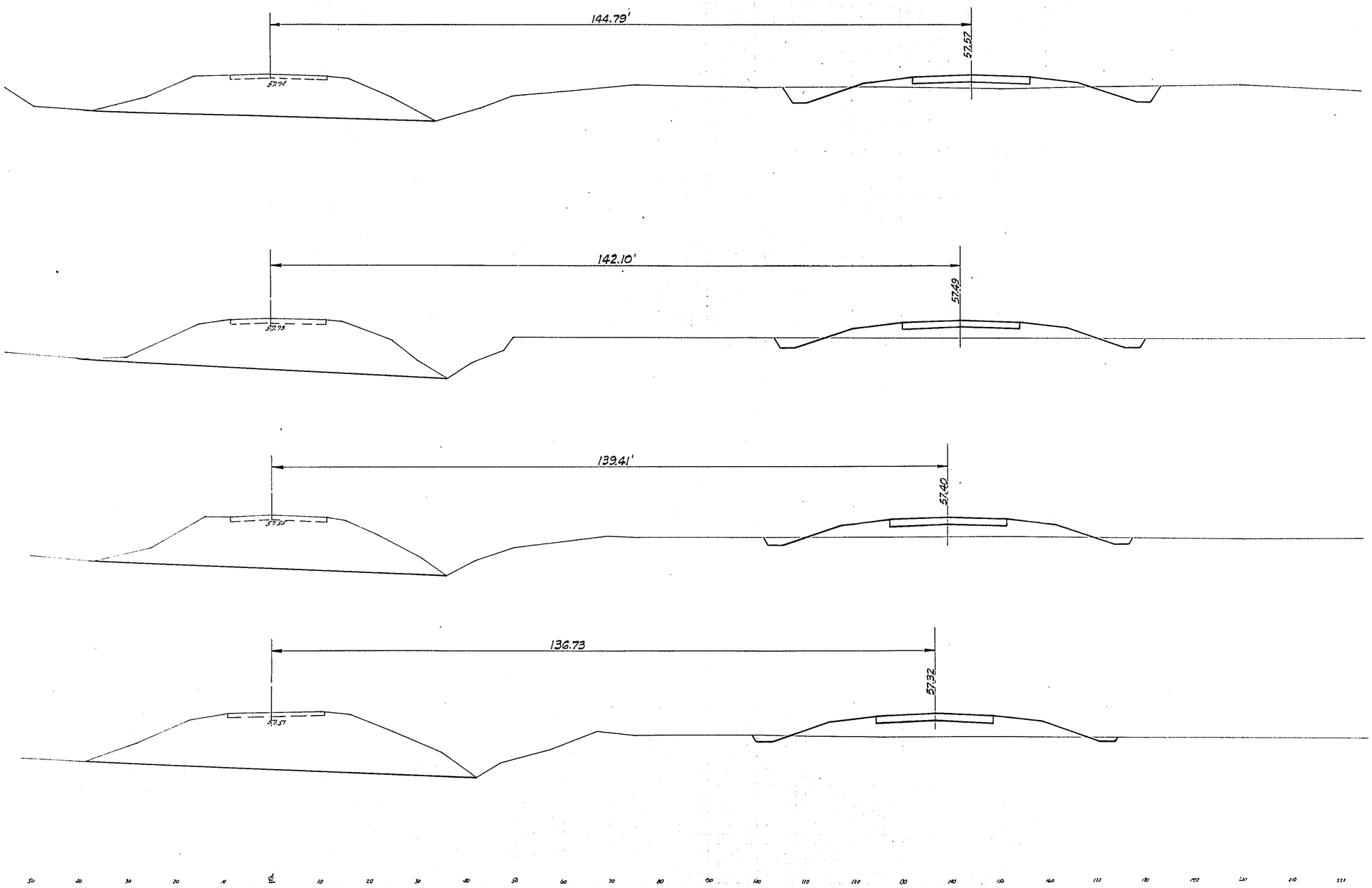
2 x G.I.H

CROSS SECTIONS

1" = 100' Vert.
1" = 10' Horiz.

OSCEOLA CO. 31

STATE JOBS Nos 9207-107 and 1613-112



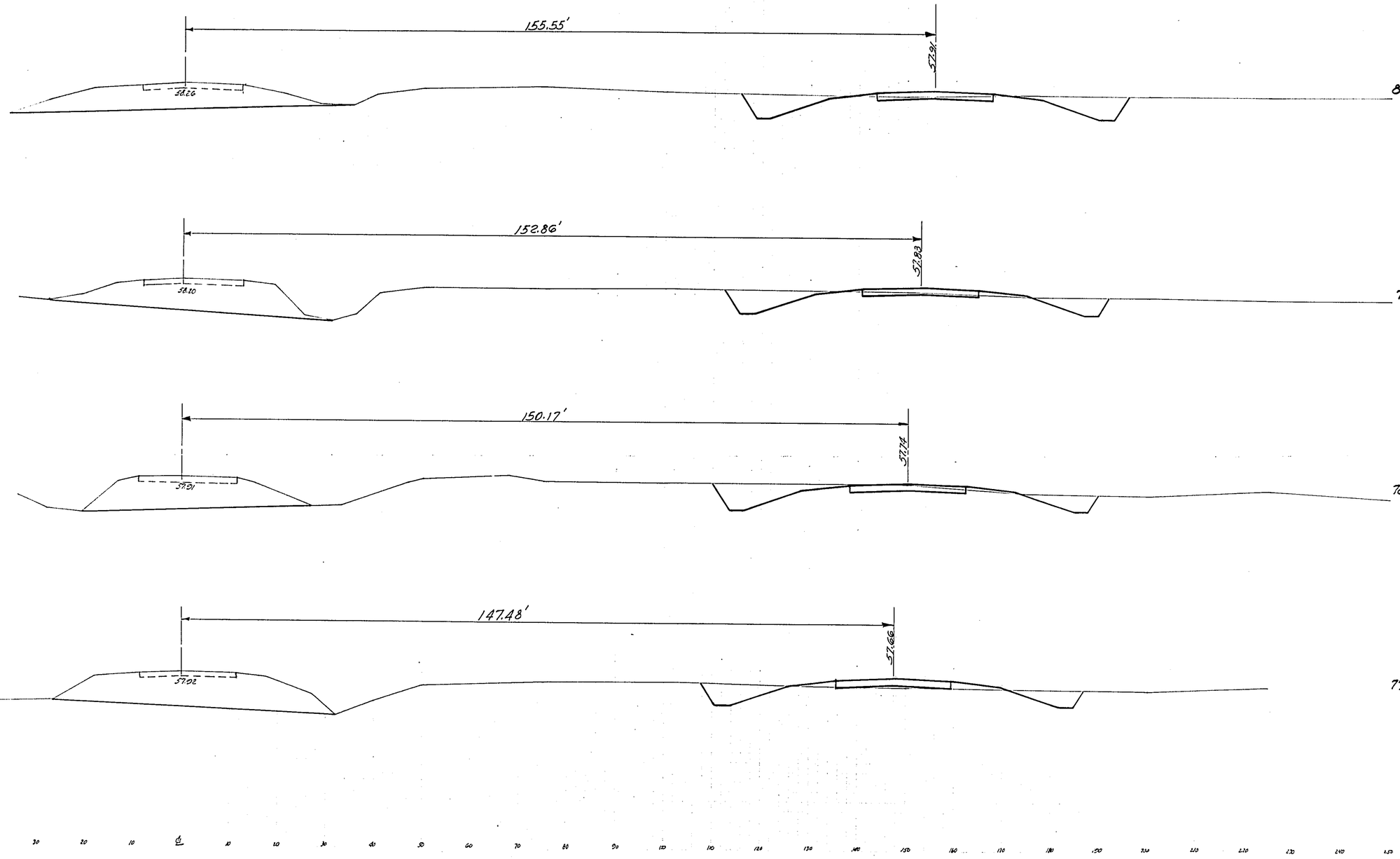
	Area		Volume	
	C	F	C	F
76+00	228	34		
			907	178
75+00	262	62		
			985	259
74+00	270	78		
			1146	320
73+00	349	95		
			1176	383

CROSS SECTIONS

Scale 1 inch = 5 feet Vert.
" " " 10 " Horiz.

OSCEOLA - POLK CO
STATE JOB 9207-107 & 1613-112

32.



	Area C	Area F	Volume C	Volume F
80+00	190	2		
			698	15
70+00	187	6		
			880	19
78+00	288	4		
			924	44
77+00	211	20		
			813	100

CROSS SECTIONS

Scale: 1 inch = 5 feet Vert.
" " " 10 " Horiz.

O.S.C. FOLA-POLK CO.
STATE JOBS 9207-107 & 1613-112

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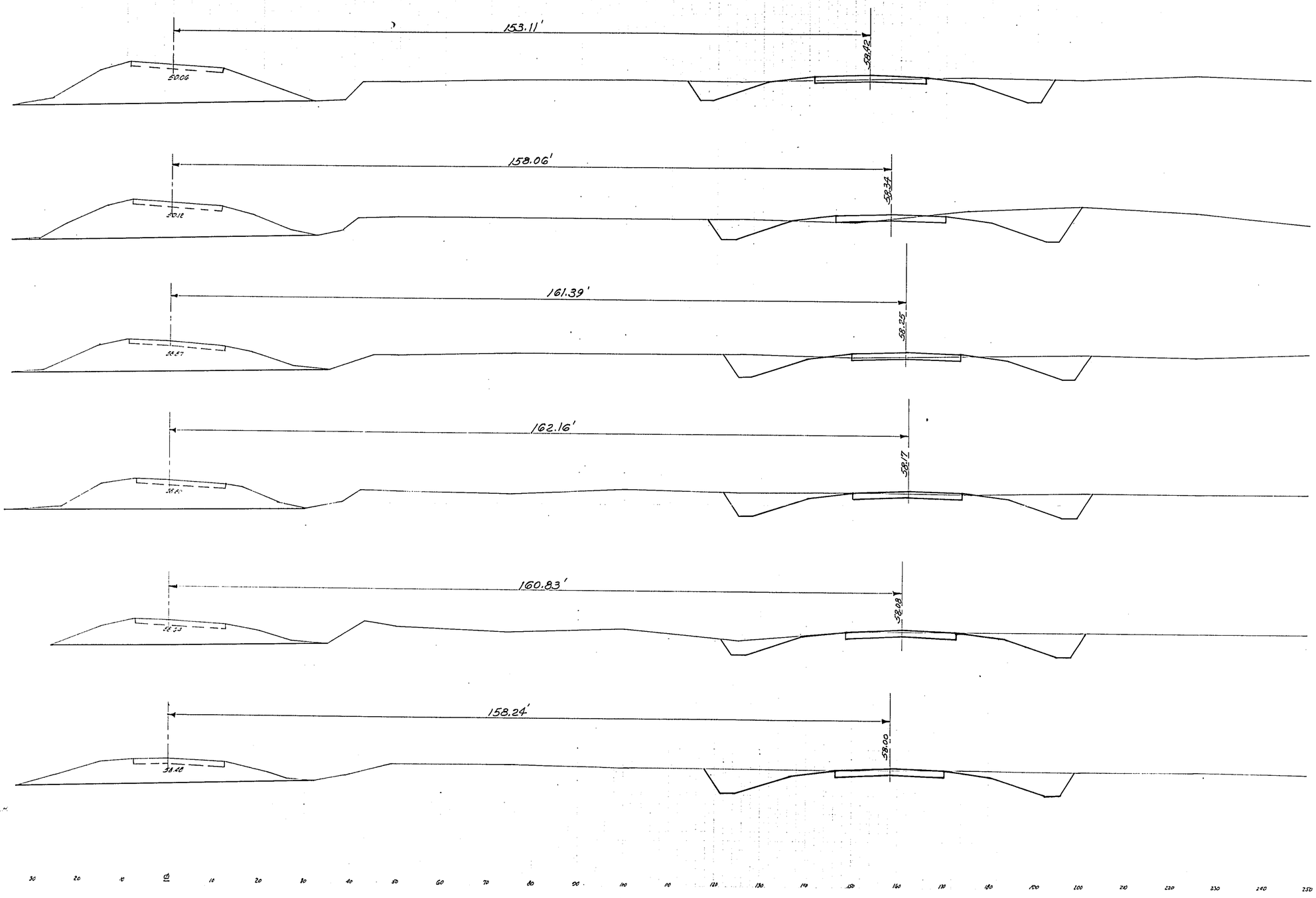

	Area C	Area F	Volume C	Volume F
86+00	237	2		
			904	22
85+00	251	10		
			831	24
84+00	198	3		
			752	6
83+00	208	0		
			717	0
82+00	179	0		
			681	0
81+00	189	0		
			702	4

CROSS SECTIONS

1" = 1 inch = 5 ft. Vert.
" " = 10 " Horiz.

STATE JOBS OSCEOLA-POLK CO 9267-107 & 7613-112

34

	Area C	Area F	Volume C	Volume F
92+00	205	89		
			794	387
91+00	224	120		
			857	415
90+00	239	104		
			885	357
89+00	239	89		
			878	202
88+00	235	20		
			654	29
	727		894	39
			240	10
87+00	248	1		
			898	6

Roadway Excav. = 29,784 ♂
Fill + 40% = 29,784 ♂

80.16'
59.23
59.20

94.20'
59.85
59.32

106.41'
59.76
59.37

123.64'
59.68
59.33

135.77'
58.59
59.24

145.58'
58.57
58.17

2.4% J.H.

25.00

50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240

CROSS SECTIONS

Scale 1 inch = 5 ft. Vert.
" " = 10 " Horiz.

OSCEOLA-POLK CO
STATE JOBS 9207-107 & 1613-112

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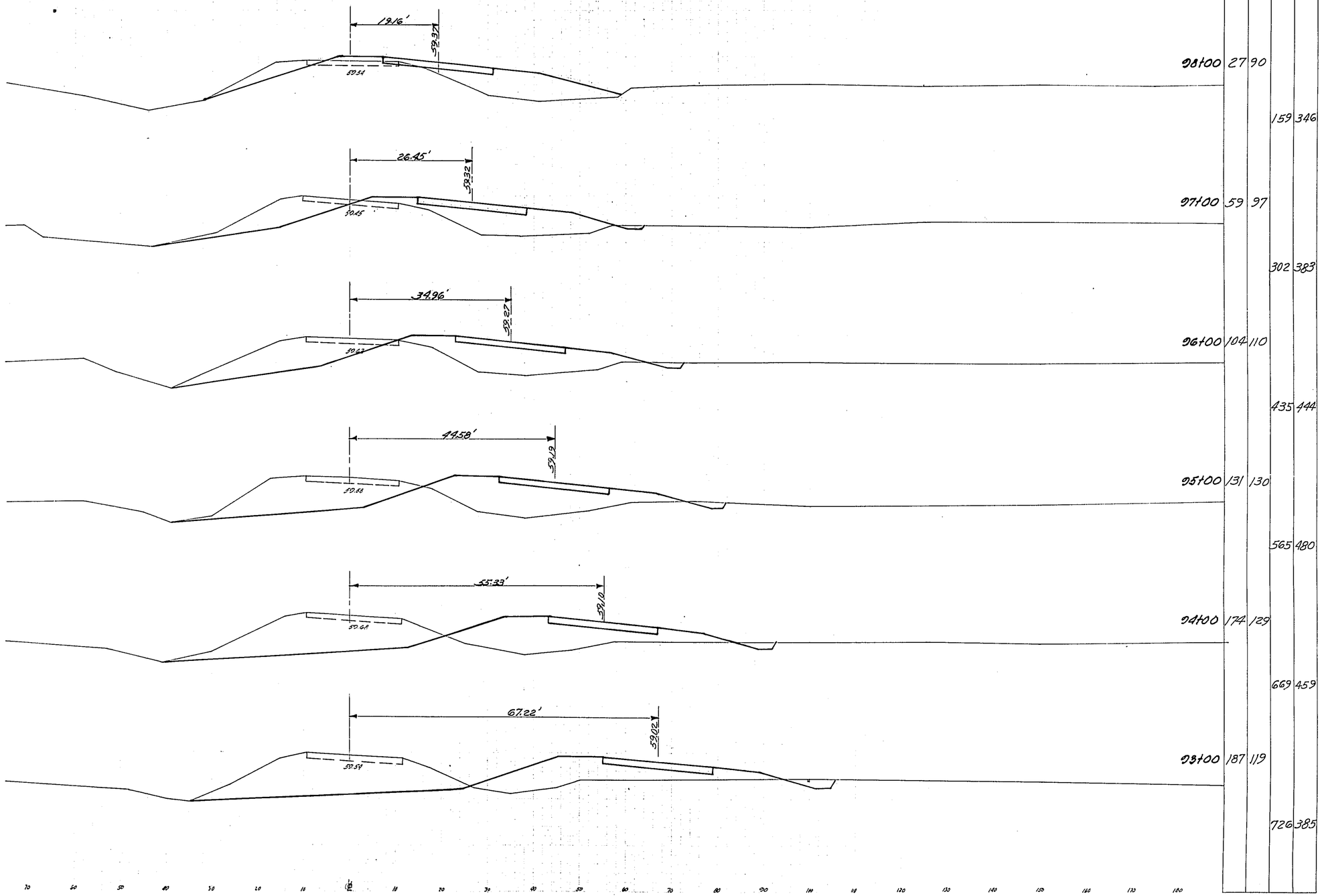
	Area C	Area F	Volume C	Volume F
98+00	27	90		
			159	346
97+00	59	97		
			302	383
96+00	104	110		
			435	444
95+00	131	130		
			565	480
94+00	174	129		
			669	459
93+00	187	119		
			726	385

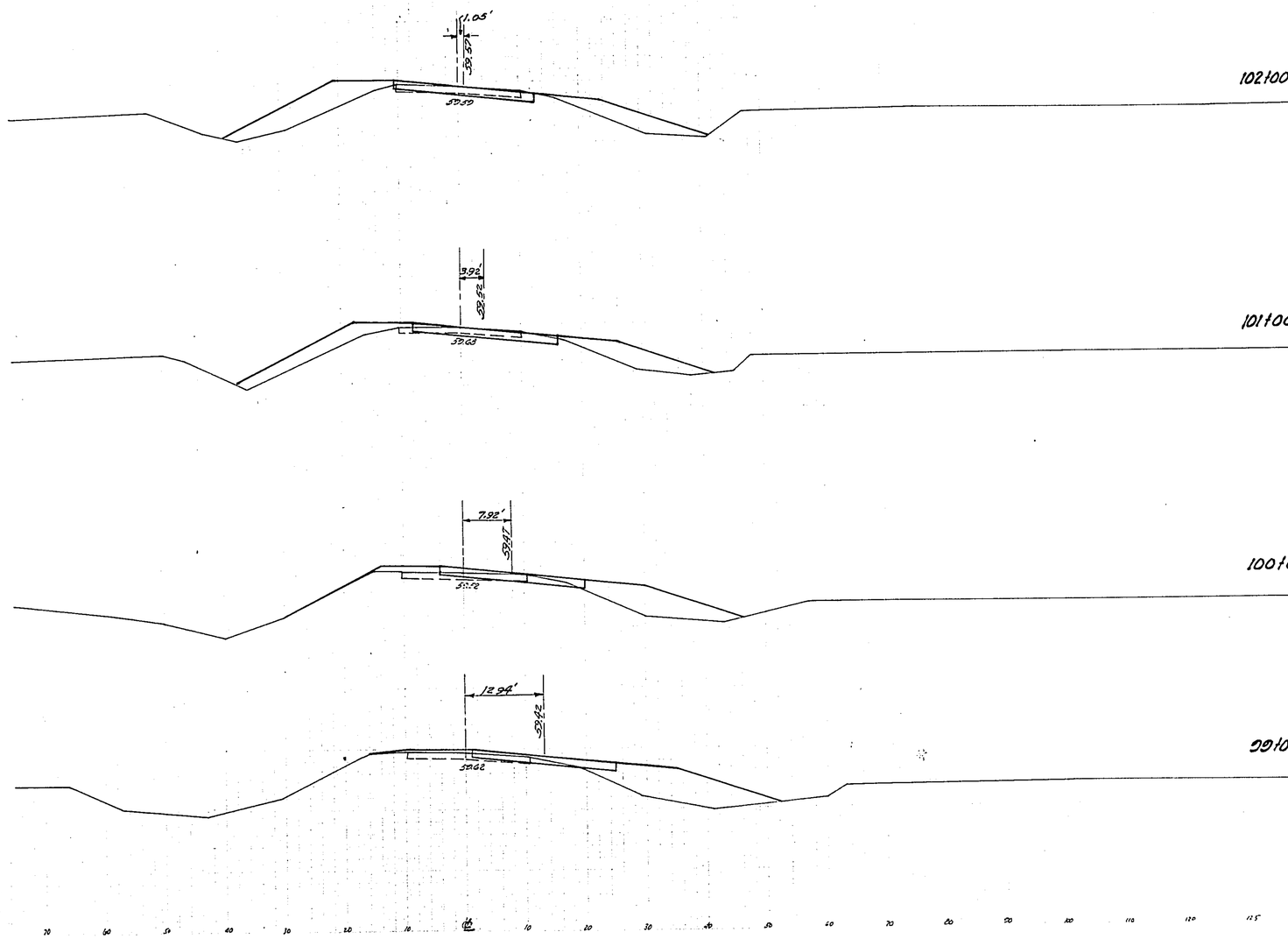


CROSS SECTIONS

Scale 1 inch = 5 feet Vert.
" " " = 10 " Horiz.

OSCEOLA-POLK 60
STATE JOBS 9207-107 & 7613-112

56



Station	Area C	Area F	Volume C	Volume F
102+00	15	80		
			54	248
101+00	14	54		
			44	187
100+00	10	47		
			41	193
99+00	12	57		
			72	272

OSCEOLA & POLK 60
STATE JOBS 9207-107 & 1613-112

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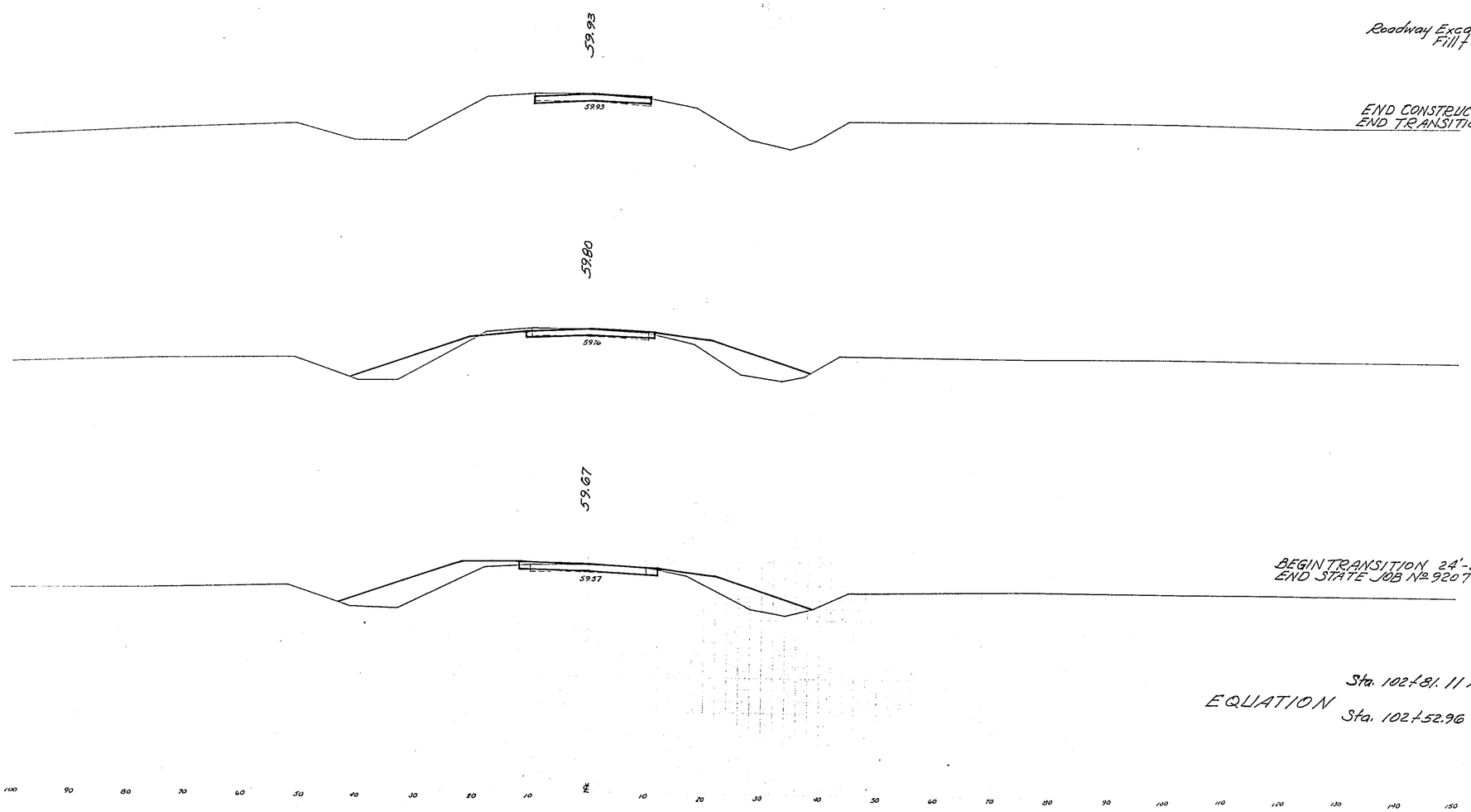
CROSS SECTIONS

Scale 1 inch = 5 ft. Vert.
1 inch = 10 feet Horiz.



Roadway Excavation = 7214 ☆
Fill + 40% = 7214 ☆

END CONSTRUCTION
END TRANSITION 24'-20' 105+00

BEGIN TRANSITION 24'-20'
END STATE JOB № 9207-107 103+00

EQUATION Sta. 102+81.11 Ahd.
Sta. 102+52.96 Bk.

	Area		Volume	
	C	F	C	F
105+00				
	1	0		
			19	5
104+00	10	28		
			31	143
103+00	7	49		
			29	171