

PLANS FOR
CONSTRUCTION OF
STREET AND STORM DRAINAGE IMPROVEMENTS

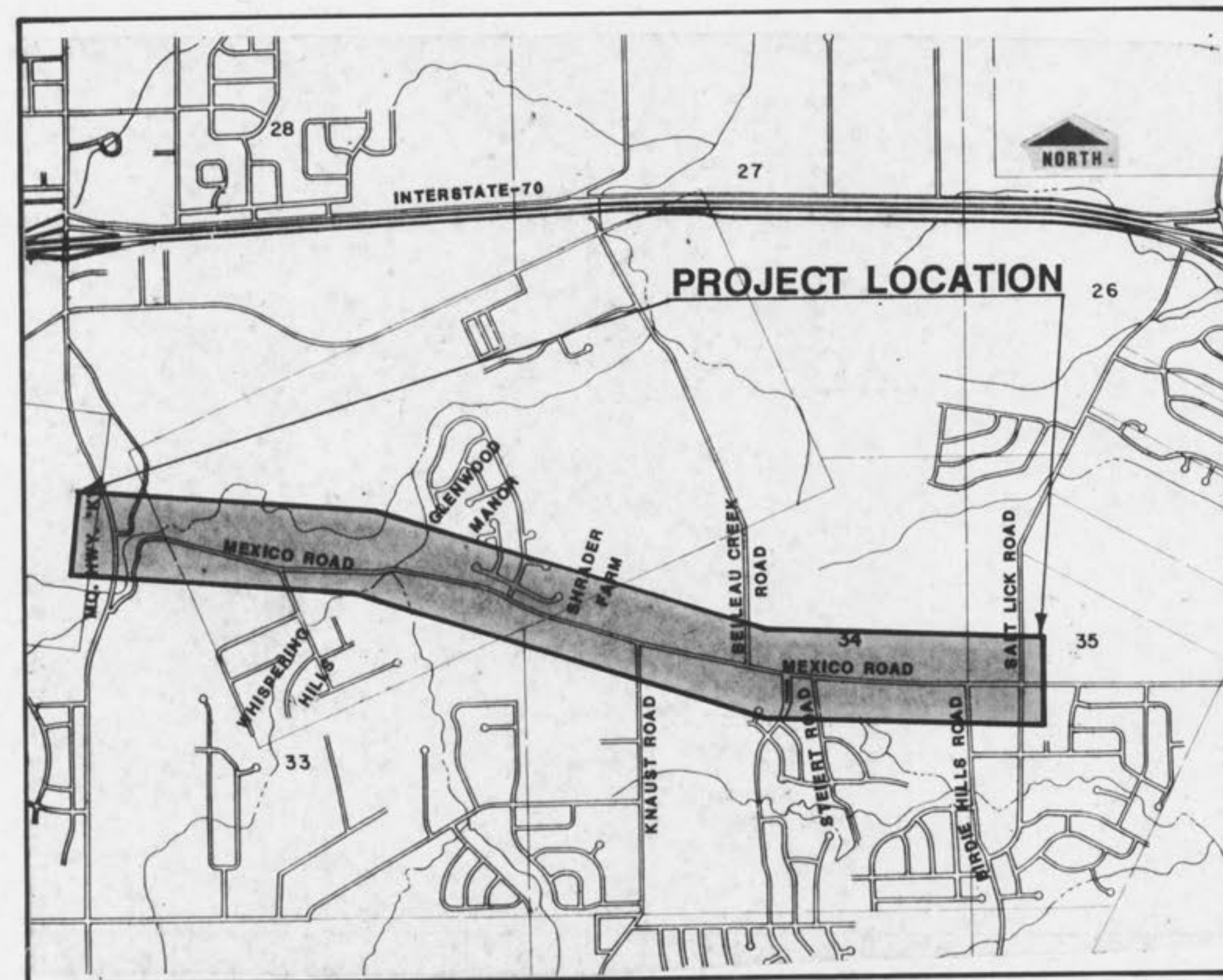
FOR
MEXICO ROAD
IN
O'FALLON, MISSOURI

DESIGN CRITERIA

DESIGN TRAFFIC-
DESIGN SPEED: 40⁺ M.P.H.
MAXIMUM CAPACITY 4-LANE STREET:
LANE WIDTH: 12'
MAXIMUM GRADIENT: 6.00 %
STOPPING SIGHT DISTANCE- 284.42'
MINIMUM SAG/VERTICAL CURVATURE, K VALUE- 55.97
CURB & GUTTER ON OUTSIDE THRU LANES: 2'-0"
PAVEMENT THICKNESS: 8" BASE, 1 1/2" SURFACE

UTILITY COMPANIES

MISSOURI CITIES WATER CO.	922-9140
LACLEDE GAS CO.	535-7700
CONTINENTAL TELEPHONE	327-6400
SOUTHWESTERN BELL TELEPHONE	DIAL 0 ENTERPRISE 9800
UNION ELECTRIC CO.	327-6203
CUIVRE RIVER ELECTRIC CO.	272-6100
TCI CABLEVISION OF MISSOURI, INC.	279-1222
M.M.E.I.	272-9017



<u>TITLE</u>	<u>INDEX</u>	<u>NO.</u>
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NOTE:
Sheet 18 Is Eliminated

CITY OF O'FALLON

RECOMMENDED _____ MAYOR _____ DATE _____

LENGTH OF PROJECT

MEXICO ROAD- STA. 6+15 TO STA. 104+00

SHEET 1 OF 65

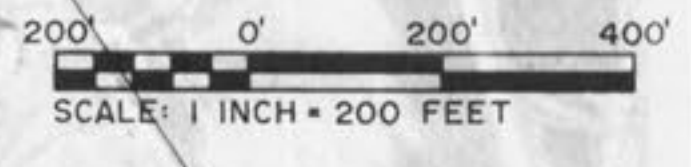
Willis A. Conley 11/15/88
PROFESSIONAL ENGINEER DATE



GEORGE BUTLER ASSOCIATES, INC.
Engineers / Architects / Landscape Architects

As/Built's 10-6-89

U. S. SURVEY NO. 1766



U. S. SURVEY NO. 55

Constructed By M.H.T.C.
Under Highway "K" Project

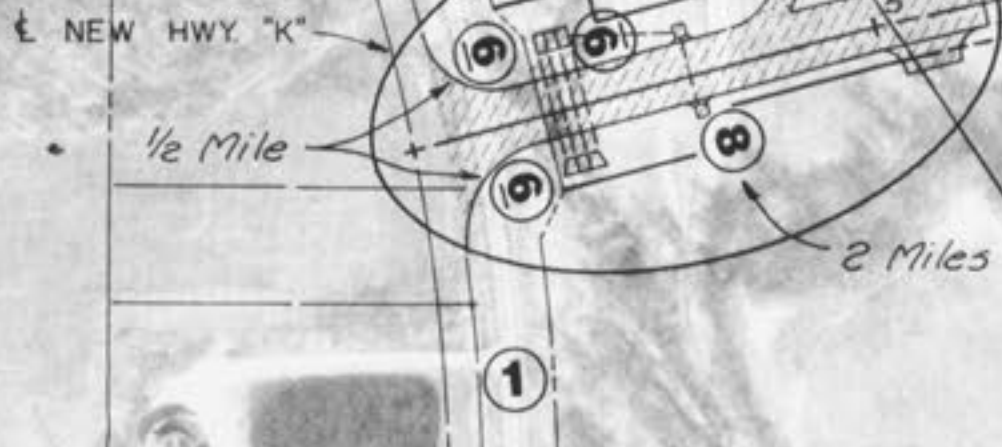
P.I. Sta. 22+67.71
Δ- 8° 48' 38.1"
D- 2°
R- 2864.79'
T- 220.70'
L- 440.53'

P.I. Sta. 52+59.61
Δ- 9° 27' 47"
D- 2°
R- 2864.79'
T- 237.12'
L- 473.15'

P.I. Sta. 37+46.17
Δ- 7° 03' 39.5"
D- 2°
R- 2864.79'
T- 176.75'
L- 353.05'

P.I. Sta. 44+93.32
Δ- 10° 09' 57"
D- 3°
R- 1909.86'
T- 305.33'
L- 605.53'

P.I. Sta. 8+45.39
Δ- 17° 01' 23.1"
D- 2°
R- 2864.79'
T- 428.74'
L- 851.15'

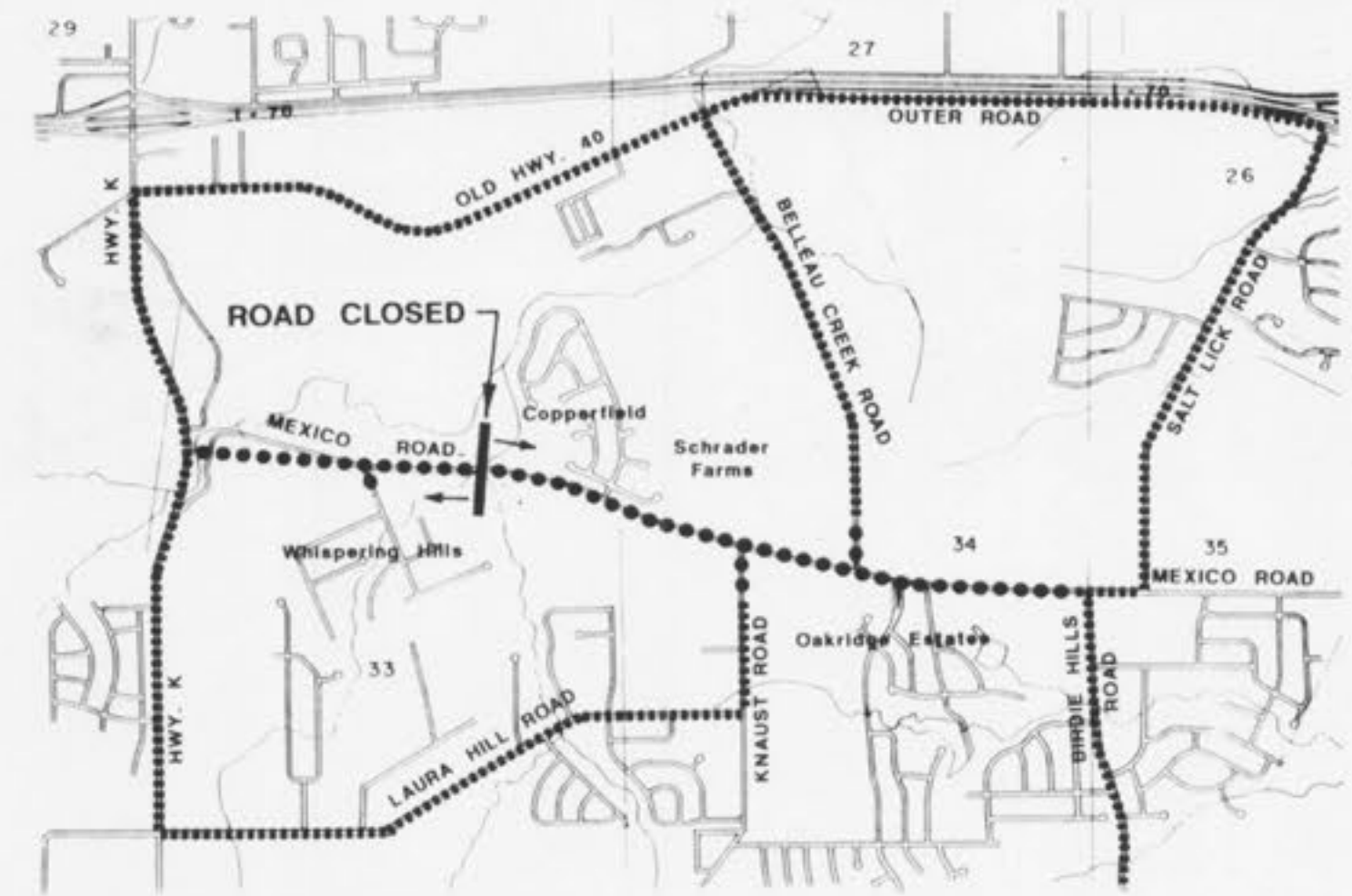


SEC. 32 SEC. 33

SEC. 33 SEC. 34

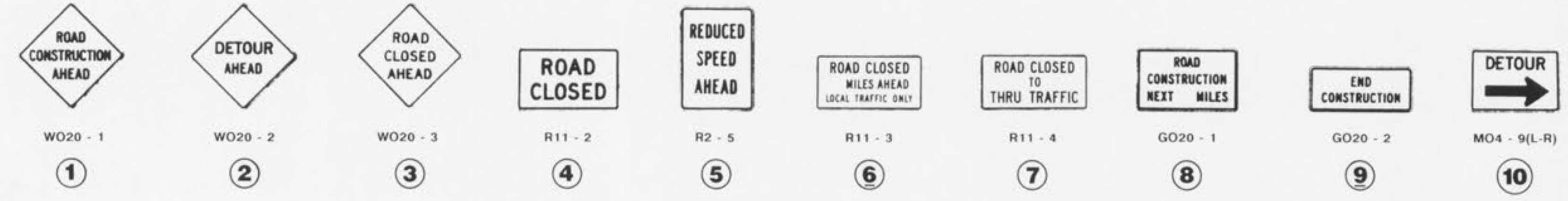
WHISPERING HILLS

OAK BEND



..... THROUGH TRAFFIC ROUTING
..... LOCAL TRAFFIC THROUGH CONSTRUCTION

THROUGH TRAFFIC ROUTING



CONSTRUCTION AND DETOUR SIGNING

GBA GEORGE BUTLER ASSOCIATES, INC. CONSULTING ENGINEERS/ARCHITECTS LANDSCAPE ARCHITECTS/PLANNERS	OFFICES: ONE PINE RIDGE PLAZA SUITE 200 800 MELROSE DRIVE LEONIA, KANSAS 66044	THE ENTERPRISE BUILDING 8306 ENTERPRISE ROAD KANSAS CITY, MISSOURI 64120	
	150 CITY CENTER SQUARE SUITE 4 150 MAIN KANSAS CITY, MISSOURI 64105	COLONIAL PLAZA SUITE 4 114 E. ELM O'FALLON, MISSOURI 63366	
	MEXICO ROAD IMPROVEMENTS HIGHWAY "K" TO SALT LICK ROAD GENERAL PLAN CITY OF O'FALLON, MISSOURI		JOB NO. 3948 DATE Nov. 19 SCALE As Shn SHEET NO. 2 OF
DESIGNED BY: REH DRAWN BY: KF CHECKED BY: WAC			



CONSTRUCTION SEQUENCE

THE CONSTRUCTION IS TO BE PHASED SUCH THAT MEXICO ROAD IS OPEN TO LOCAL TRAFFIC ONLY AT ALL TIMES. THE CONTRACTOR SHALL SUBMIT A PLAN FOR PHASING OF CONSTRUCTION WHICH WILL INCLUDE ANY OTHER CLOSINGS OF SEGMENTS DEEMED NECESSARY FOR CONSTRUCTION OF THE PROJECT. THIS IS TO BE SUBMITTED TO THE ENGINEER PRIOR TO THE START OF WORK ON THE PROJECT.

GBA
GEORGE BUTLER ASSOCIATES, INC.
 CONSULTING ENGINEERS/ARCHITECTS
 LANDSCAPE ARCHITECTS/PLANNERS

OFFICES:
 ONE PINE RIDGE PLAZA
 SUITE 200
 807 MELROSE DRIVE
 LENEXA, KANSAS 66242
 100 CITY CENTER SQUARE
 SUITE 4
 100 MAIN
 KANSAS CITY, MISSOURI 64101

THE ENTERPRISE BUILDING
 630 ENTERPRISE ROAD
 KANSAS CITY, MISSOURI 64108
 COLONIAL PLAZA
 SUITE 4
 34 E. ELM
 O'FALLON, MISSOURI 63366

MEXICO ROAD IMPROVEMENTS
HIGHWAY "K" TO SALT LICK ROAD
GENERAL PLAN
CITY OF O'FALLON, MISSOURI

DESIGNED BY *REH* DRAWN BY *KF* CHECKED BY *WAC*

JOB NO. 3948
 DATE Nov. 1986
 SCALE As Shown
 SHEET NO. 3 OF 6

U.S. SURVEY NO. 1766

U.S. SURVEY NO. 56

SCALE: 1 INCH = 200 FEET

P.I. Sta. 32+67.71
Δ- 8° 18' 00"
D- 2'
R- 2864.79'
T- 220.70'
L- 440.53'

P.I. Sta. 52+32.61
Δ- 9° 27' 47"
D- 2'
R- 2864.79'
T- 237.12'
L- 473.15'

P.I. Sta. 8+45.39
Δ- 17° 01' 23.1"
D- 2'
R- 2864.79'
T- 428.74'
L- 851.15'

P.I. Sta. 37+46.17
Δ- 7° 03' 39.5"
D- 2'
R- 2864.79'
T- 146.75'
L- 353.03'

P.I. Sta. 44+93.32
Δ- 10° 09' 57"
D- 2'
R- 1909.86'
T- 305.33'
L- 605.53'

35.70 Acres

32.37 Acres

71.63 Acres

250.57 Acres

379.50 Acres

SEC. 32

SEC. 33

SEC. 33

SEC. 34

WHISPERING

HILLS

OAK

BEND

GBA
GEORGE BUTLER ASSOCIATES, INC.
CONSULTING ENGINEERS/ARCHITECTS
LANDSCAPE ARCHITECTS/PLANNERS

OFFICES:
ONE PINE RIDGE PLAZA
SUITE 200
807 MELBOURNE DRIVE
LENEXA, KANSAS 66242
100 CITY CENTER SQUARE
SUITE 4
100 MARK
KANSAS CITY, MISSOURI 64105
THE ENTERPRISE BUILDING
4300 ENTERPRISE ROAD
KANSAS CITY, MISSOURI 64111
CORNWELL PLAZA
SUITE 4
174 E. W. BLVD.
O'FALLON, MISSOURI 63366



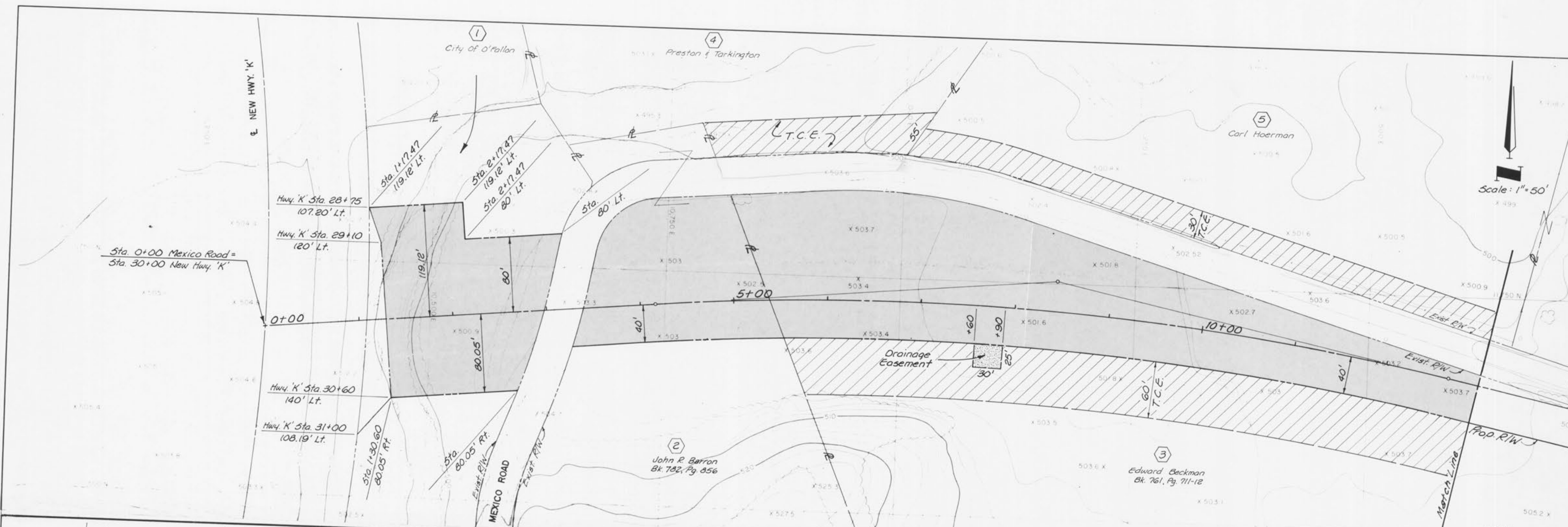
MEXICO ROAD IMPROVEMENTS
HIGHWAY "K" TO SALT LICK ROAD
STORM DRAINAGE PLAN
CITY OF O'FALLON, MISSOURI

DESIGNED BY REH DRAWN BY KF CHECKED BY WAC

JOB NO. 3948
DATE Nov, 1988
SCALE As Shown
SHEET NO. 4 OF 65



GBA GEORGE BUTLER ASSOCIATES, INC. CONSULTING ENGINEERS-ARCHITECTS LANDSCAPE ARCHITECTS-PLANNERS	OFFICES: 1000 PINE BLUFF RD. #200 O'FALLON, MO. 63429 314-271-1100 314-271-1101 314-271-1102	
	1000 PINE BLUFF RD. #200 O'FALLON, MO. 63429 314-271-1100 314-271-1101 314-271-1102	
MEXICO ROAD IMPROVEMENTS HIGHWAY "K" TO SALT LICK ROAD STORM DRAINAGE PLAN CITY OF O'FALLON, MISSOURI		
DESIGNED BY	DRAWN BY	CHECKED BY
REH	KF	WAC
JOB NO.	DATE	SCALE
3948	Nov, 1988	As Shown
SHEET		NO.
5		65



GBA
 GEORGE BUTLER ASSOCIATES, INC.
 CONSULTING ENGINEERS/ARCHITECTS
 LANDSCAPE ARCHITECTS/PLANNERS

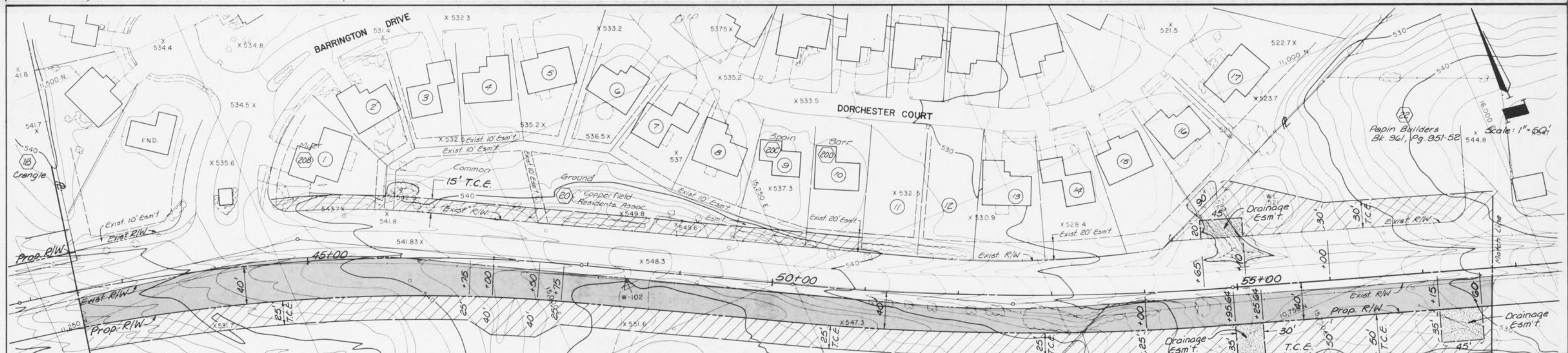
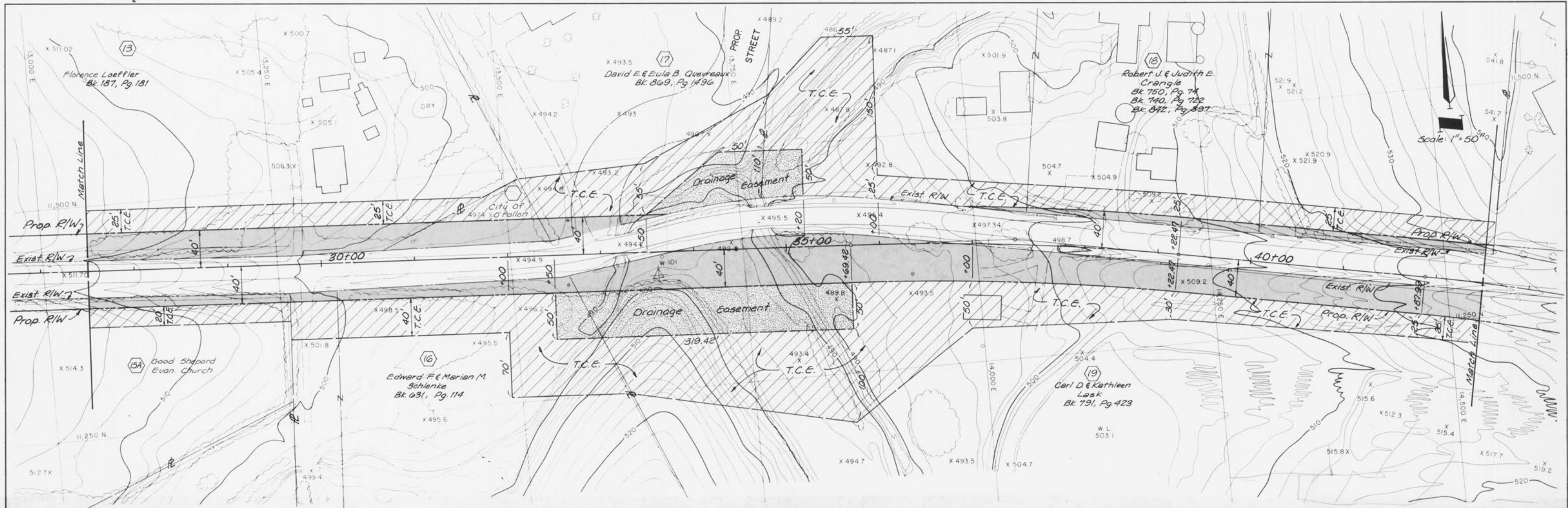
OFFICES:
 ONE PINE RIDGE PLAZA
 SUITE 200
 800 MELROSE DRIVE
 LENEXA, KANSAS 66242
 1900 CITY CENTER SQUARE
 SUITE 200
 1900 MAIN
 KANSAS CITY, MISSOURI 64108

THE ENTERPRISE BUILDING
 600 ENTERPRISE ROAD
 KANSAS CITY, MISSOURI 64108
 COLONIAL PLAZA
 SUITE 200
 1414 E. 12TH AVE.
 O'FALLON, MISSOURI 63366

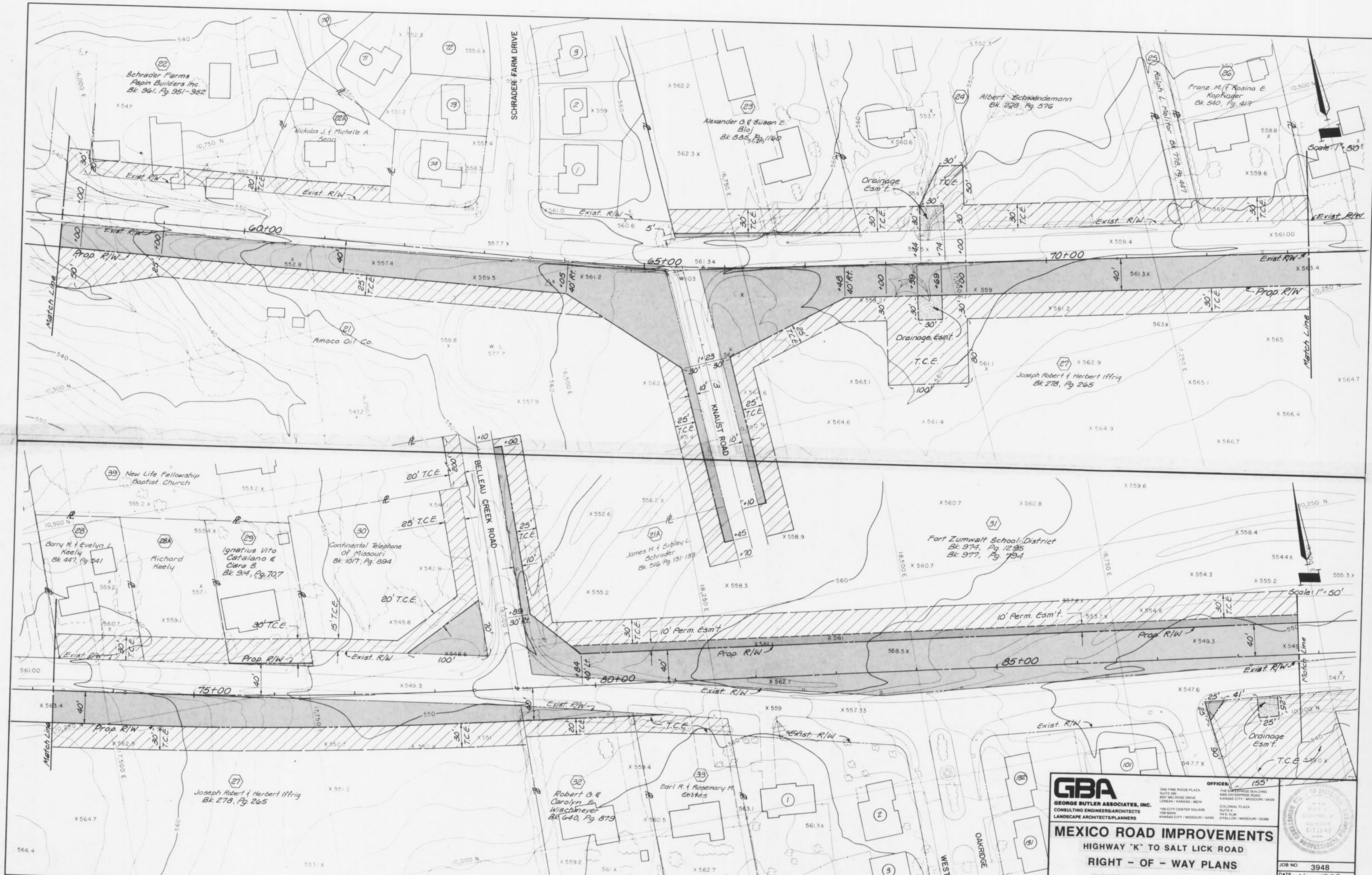
MEXICO ROAD IMPROVEMENTS
 HIGHWAY "K" TO SALT LICK ROAD
 RIGHT - OF - WAY PLANS
 CITY OF O'FALLON, MISSOURI

DESIGNED BY *REH* DRAWN BY *RF* CHECKED BY *WAC*

JOB NO. 3948
 DATE Nov, 1988
 SCALE 1" = 50'
 SHEET NO. 6 OF 65



<p>GBA GEORGE BUTLER ASSOCIATES, INC. CONSULTING ENGINEERS/ARCHITECTS LANDSCAPE ARCHITECTS/PLANNERS</p>	<p>OFFICES: ONE PINE RIDGE PLAZA SUITE 200 800 ENTERPRISE ROAD KANSAS CITY, MISSOURI 64108</p>	
	<p>THE ENTERPRISE BUILDING 800 ENTERPRISE ROAD KANSAS CITY, MISSOURI 64108</p>	
	<p>COLONIAL PLAZA SUITE 114 1100 CITY CENTER SQUARE THE BLVD KANSAS CITY, MISSOURI 64108</p>	
	<p>O'FALLON, MISSOURI 63366</p>	
<p>MEXICO ROAD IMPROVEMENTS HIGHWAY "K" TO SALT LICK ROAD RIGHT - OF - WAY PLANS CITY OF O'FALLON, MISSOURI</p>		
<p>DESIGNED BY REH DRAWN BY HF CHECKED BY WAC</p>	<p>Job No. 3948 Date Nov, 1988 Scale 1" = 50' Sheet No. 7 of 65</p>	



GBA
 GEORGE BUTLER ASSOCIATES, INC.
 CONSULTING ENGINEERS/ARCHITECTS
 LANDSCAPE ARCHITECTS/PLANNERS

OFFICES:
 ONE PINE RIDGE PLAZA
 SUITE 200
 8307 MELROSE DRIVE
 LENEXA, KANSAS 66342
 100 CITY CENTER SQUARE
 SUITE 4
 114 E. ELM
 KANSAS CITY, MISSOURI 64105

THE ENTERPRISE BUILDING
 6302 ENTERPRISE ROAD
 KANSAS CITY, MISSOURI 64108
 COLONIAL PLAZA
 SUITE 4
 114 E. ELM
 O'FALLON, MISSOURI 63366

MEXICO ROAD IMPROVEMENTS
 HIGHWAY "K" TO SALT LICK ROAD
 RIGHT - OF - WAY PLANS
 CITY OF O'FALLON, MISSOURI

DESIGNED BY: REH DRAWN BY: KF CHECKED BY: WAC

JOB NO. 3948
 DATE Nov. 1988
 SCALE 1" = 50'
 SHEET NO. 8 OF 65



Scale: 1" = 50'

Scale: 1" = 50'

GBA
GEORGE BUTLER ASSOCIATES, INC.
 CONSULTING ENGINEERS/ARCHITECTS
 LANDSCAPE ARCHITECTS/PLANNERS

OFFICES:
 ONE PINE RIDGE PLAZA
 SUITE 200
 8501 MELROSE DRIVE
 LENEXA, KANSAS 66042
 100 CITY CENTER SQUARE
 SUITE 4
 100 MAID
 KANSAS CITY, MISSOURI 64108

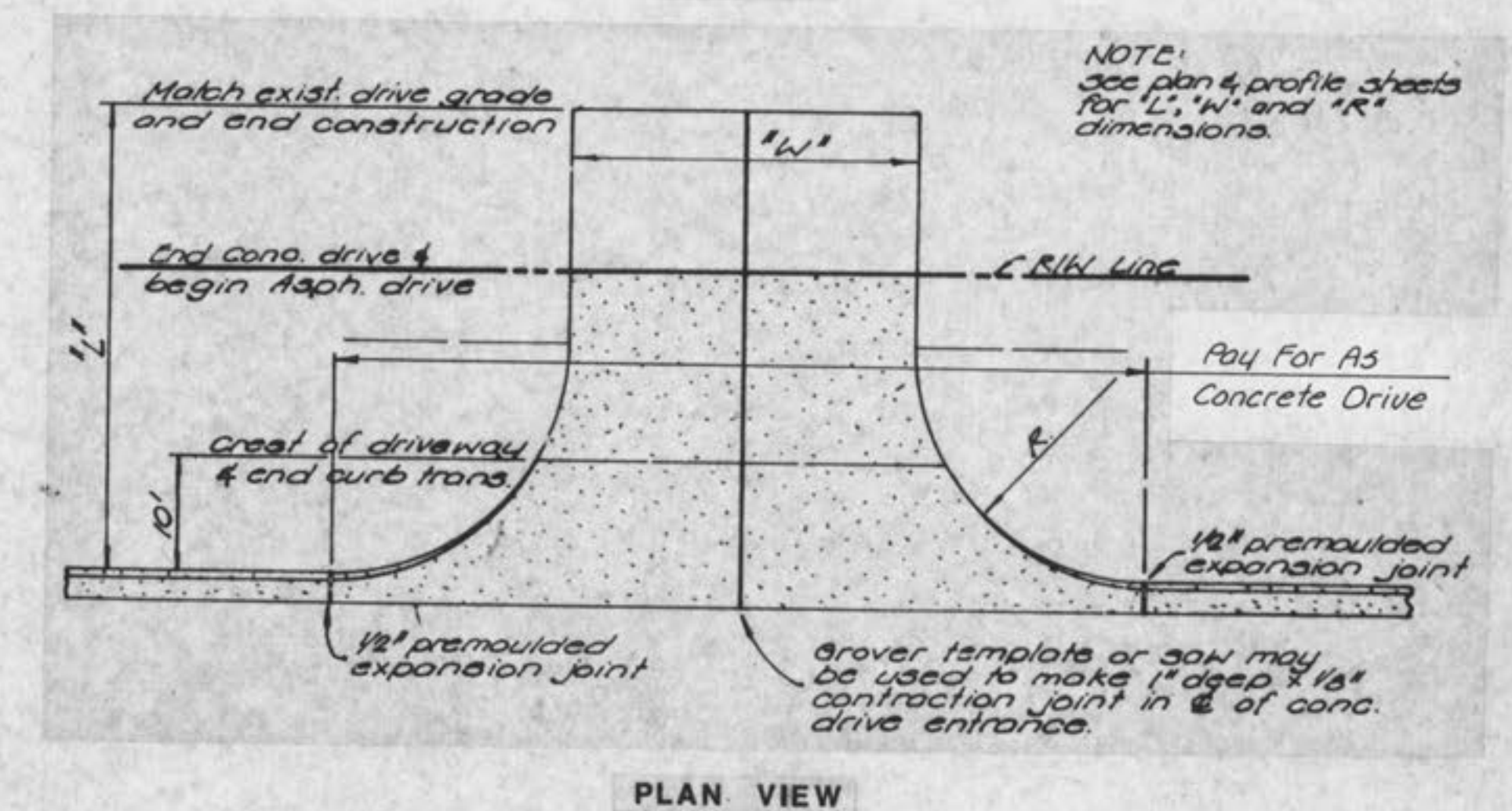
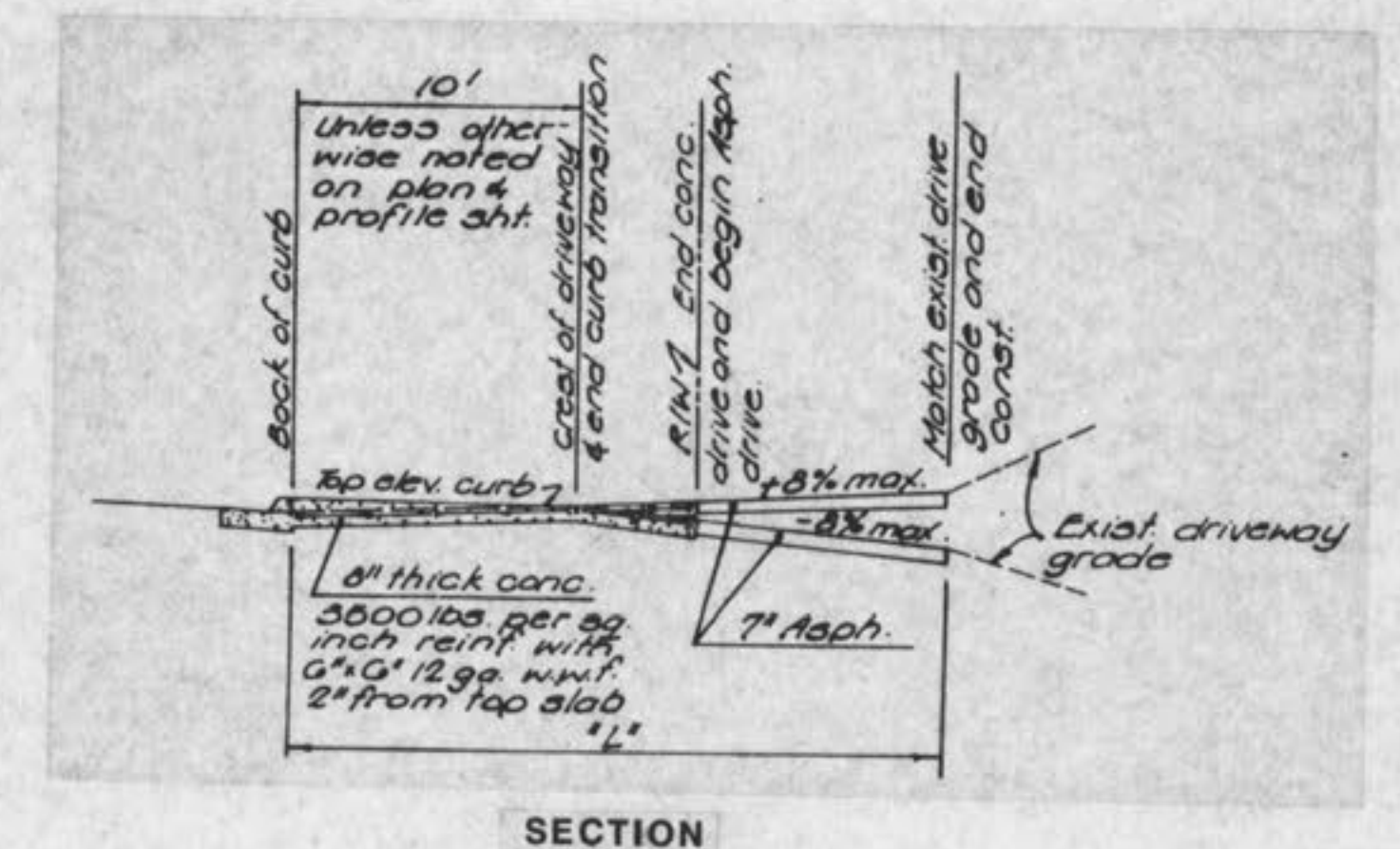
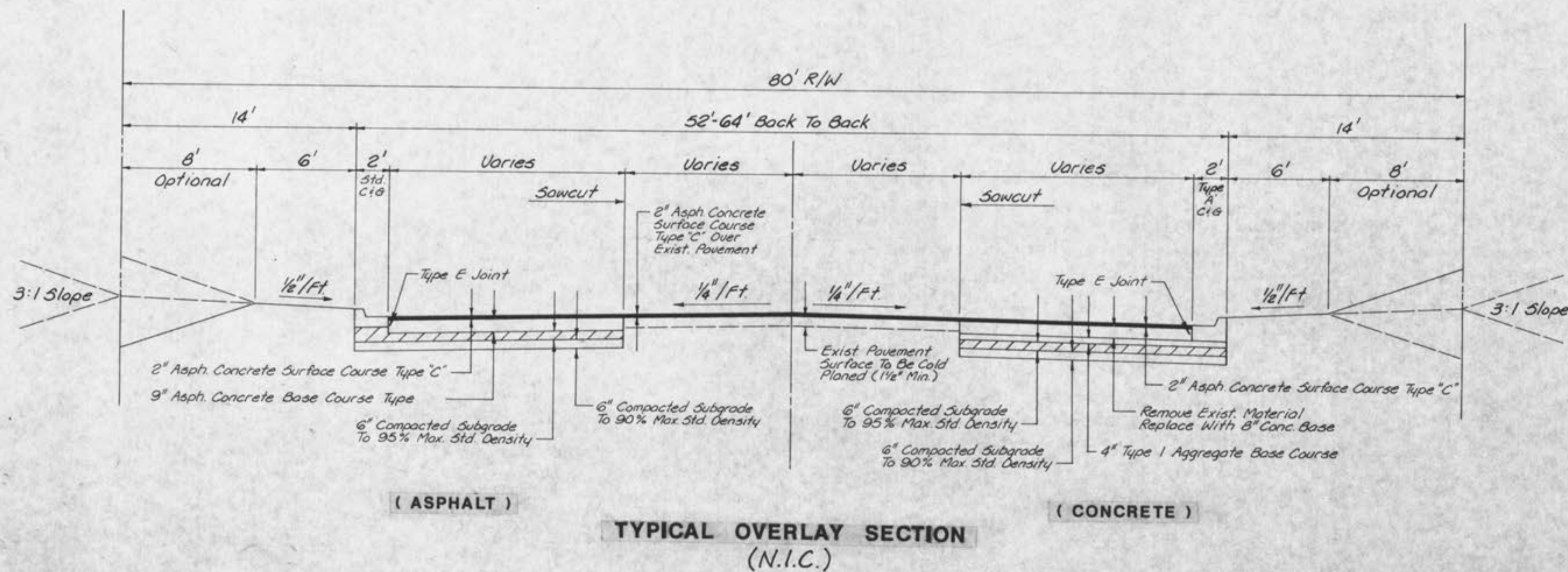
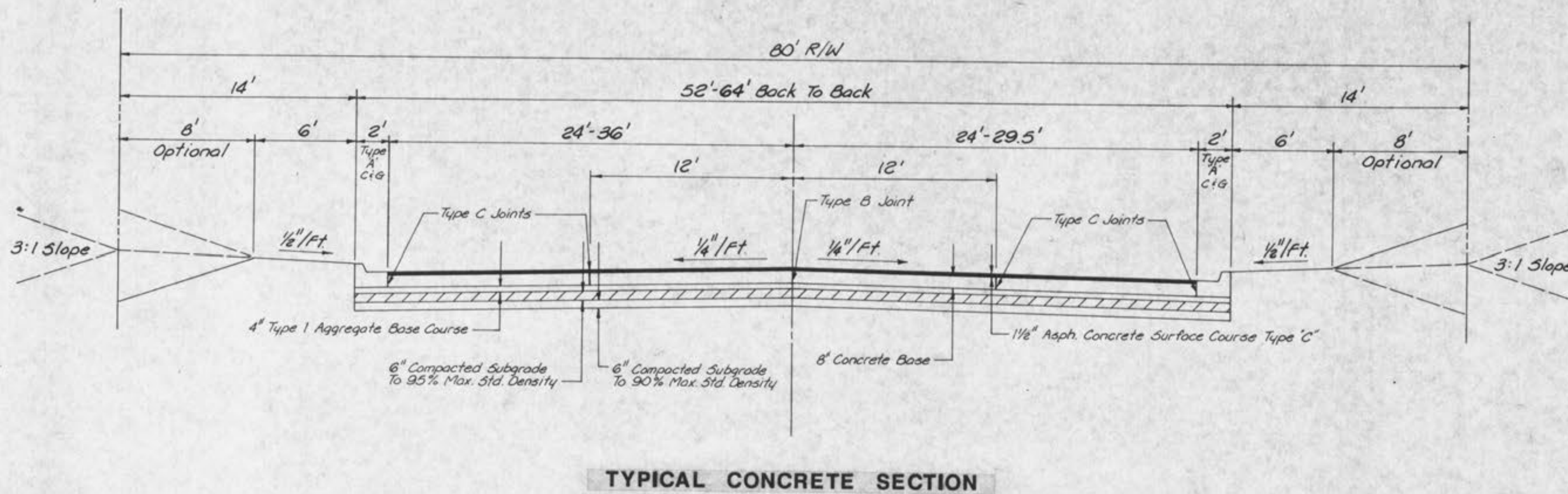
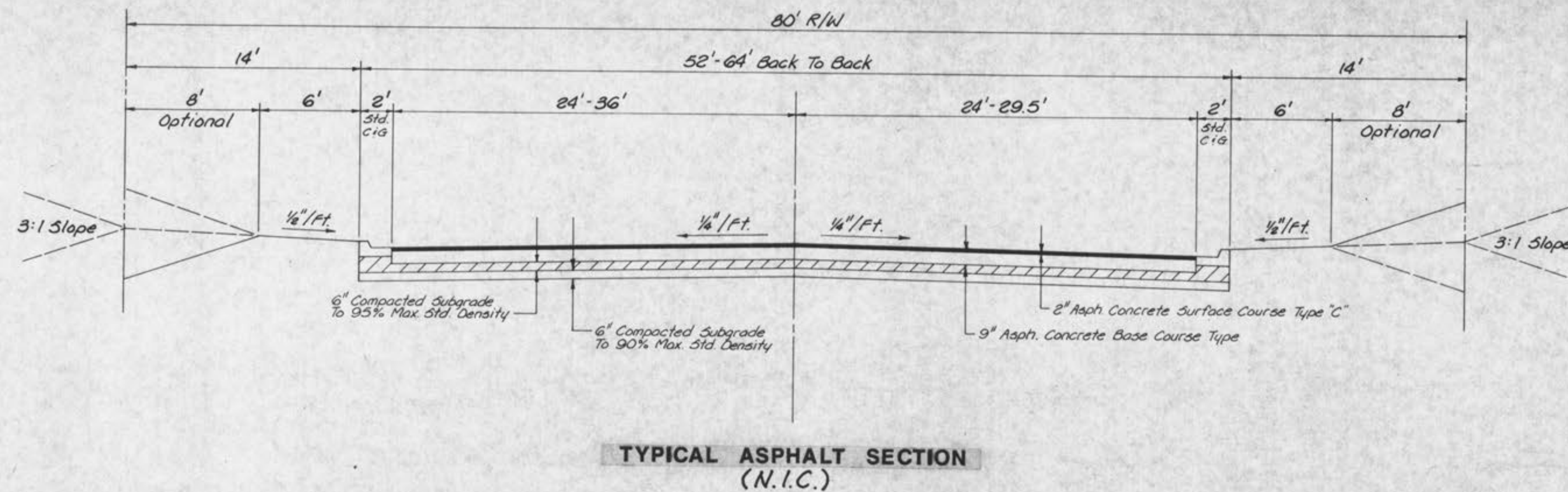
THE ENTERPRISE BUILDING
 530 ENTERPRISE ROAD
 KANSAS CITY, MISSOURI 64108
COLONIAL PLAZA
 SUITE 4
 714 E. ELM
 O'FALLON, MISSOURI 63366

MEXICO ROAD IMPROVEMENTS
 HIGHWAY "K" TO SALT LICK ROAD
 RIGHT - OF - WAY PLANS
 CITY OF O'FALLON, MISSOURI

DESIGNED BY *REH* DRAWN BY *KF* CHECKED BY *LAG*

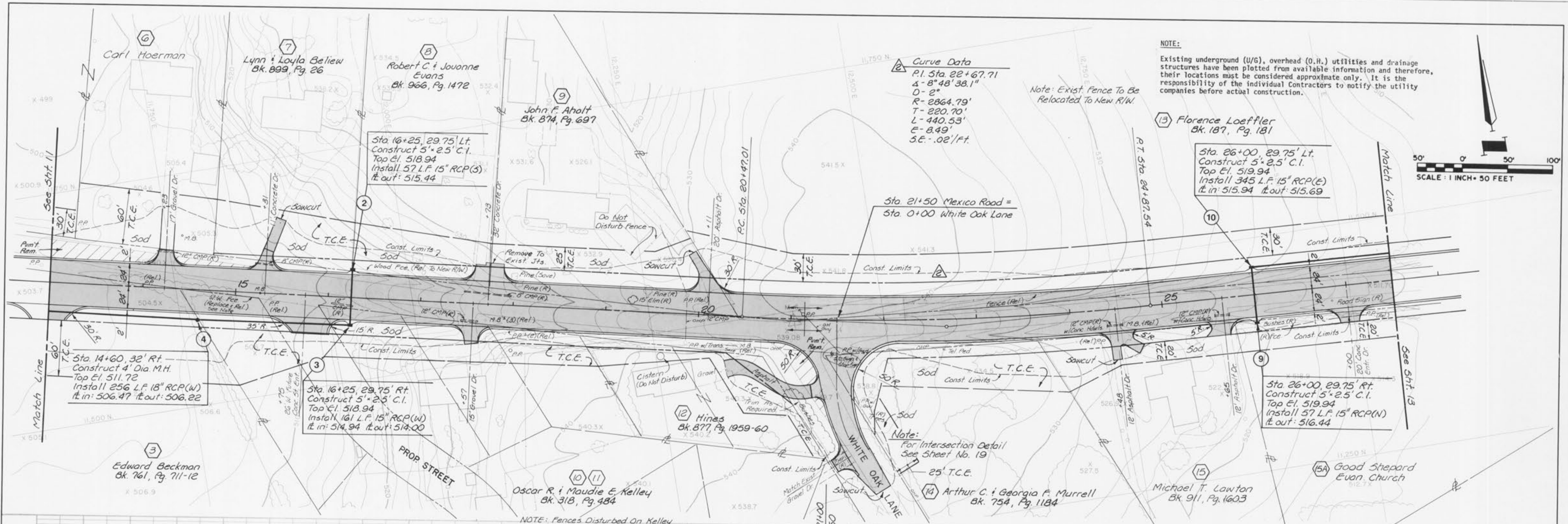


JOB NO. 3948
 DATE Nov, 1988
 SCALE 1" = 50'
 SHEET 0 OF 05

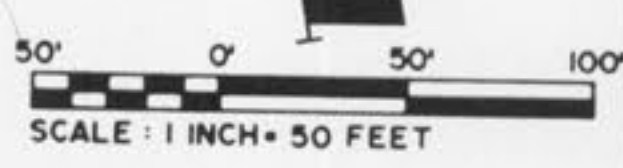


CONCRETE DRIVE ENTRANCE DETAILS

GBA GEORGE BUTLER ASSOCIATES, INC. CONSULTING ENGINEERS/ARCHITECTS LANDSCAPE ARCHITECTS/PLANNERS	ONE PINE RIDGE PLAZA SUITE 200 6871 MELROSE DRIVE LENEXA, KANSAS 66241	OFFICES: THE ENTERPRISE BUILDING 1300 ENTERPRISE ROAD KANSAS CITY, MISSOURI 64108 COLONIAL PLAZA SUITE 4 114 E. 12th KANSAS CITY, MISSOURI 64105	
	MEXICO ROAD IMPROVEMENTS HIGHWAY "K" TO SALT LICK ROAD TYPICAL SECTIONS CITY OF O'FALLON, MISSOURI		
DESIGNED BY REH	DRAWN BY KF	CHECKED BY WAC	JOB NO. 3948 DATE Nov. 1988 SCALE None SHEET NO. 10 OF 65



NOTE:
Existing underground (U/G), overhead (O.H.) utilities and drainage structures have been plotted from available information and therefore, their locations must be considered approximate only. It is the responsibility of the individual Contractors to notify the utility companies before actual construction.



Curve Data
P.I. Sta. 22+67.71
Δ = 8° 48' 38.1"
D = 2°
R = 2864.79'
T = 220.70'
L = 440.53'
E = 8.49'
S.E. = .02'/ft.

Note: Exist. Fence To Be Relocated To New R/W.

13 Florence Loeffler
Bk. 187, Pg. 181

Sta. 26+00, 29.75' Lt.
Construct 5' x 2.5' C.I.
Top El. 519.94
Install 345 L.F. 15" RCP(E)
ft. in: 515.94 ft. out: 515.69

Sta 21+50 Mexico Road =
Sta 0+00 White Oak Lane

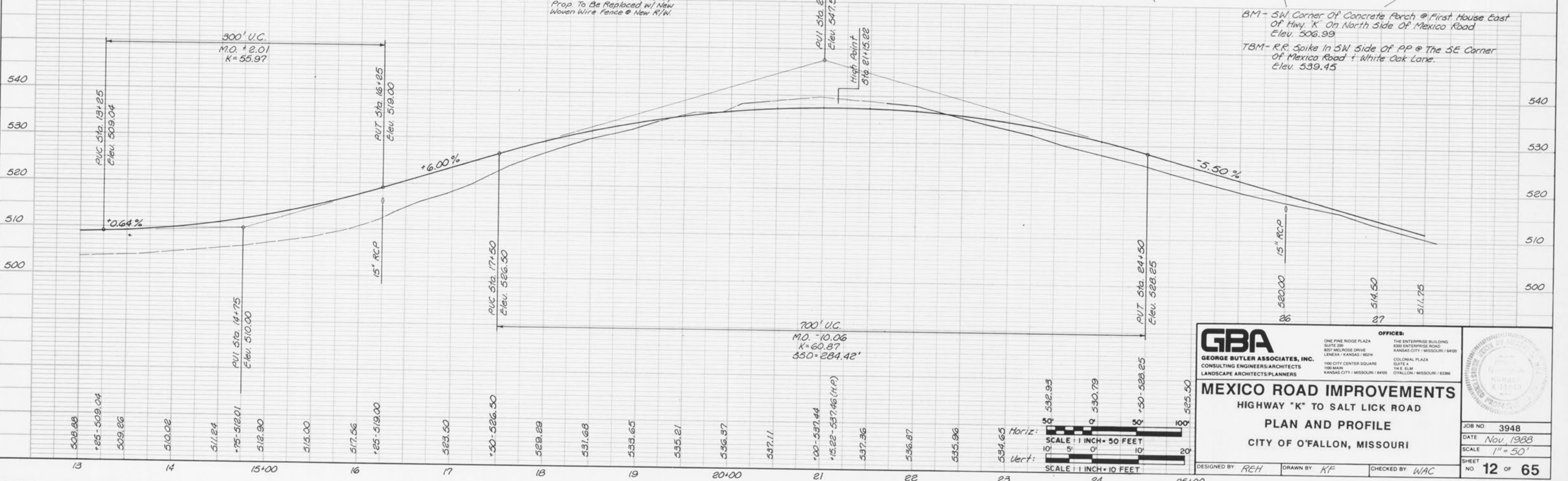
Sta. 14+60, 32' Rt.
Construct 4' Dia. M.H.
Top El. 511.72
Install 256 L.F. 18" RCP(W)
ft. in: 506.47 ft. out: 506.22

Sta 16+25, 29.75' Rt.
Construct 5' x 2.5' C.I.
Top El. 513.94
Install 161 L.F. 15" RCP(W)
ft. in: 514.94 ft. out: 514.00

Sta 26+00, 29.75' Rt.
Construct 5' x 2.5' C.I.
Top El. 519.94
Install 57 L.F. 15" RCP(N)
ft. out: 516.44

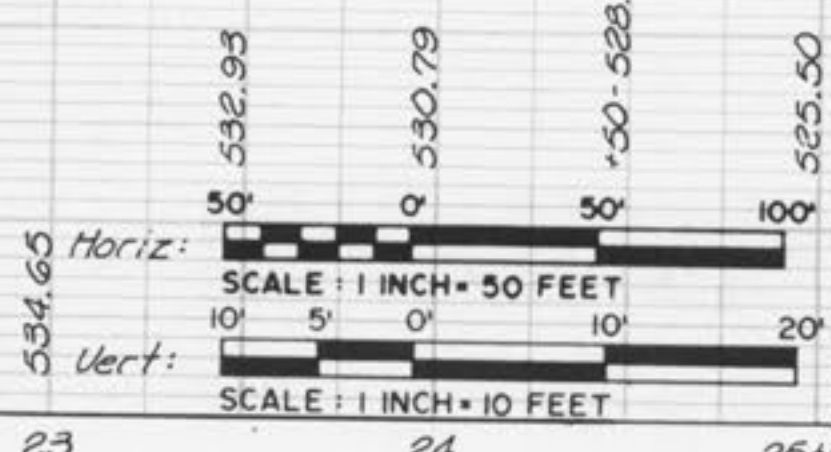
Note:
For Intersection Detail
See Sheet No. 19

NOTE: Fences Disturbed On Kelley Prop. To Be Replaced w/ New Woven Wire Fence @ New R/W

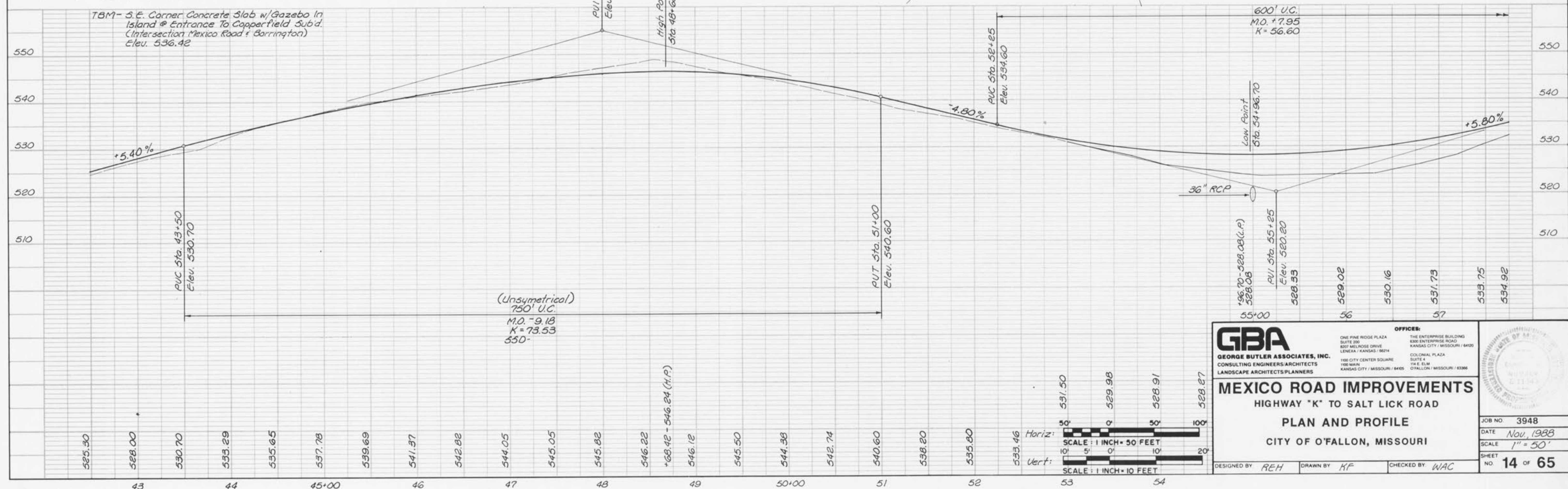
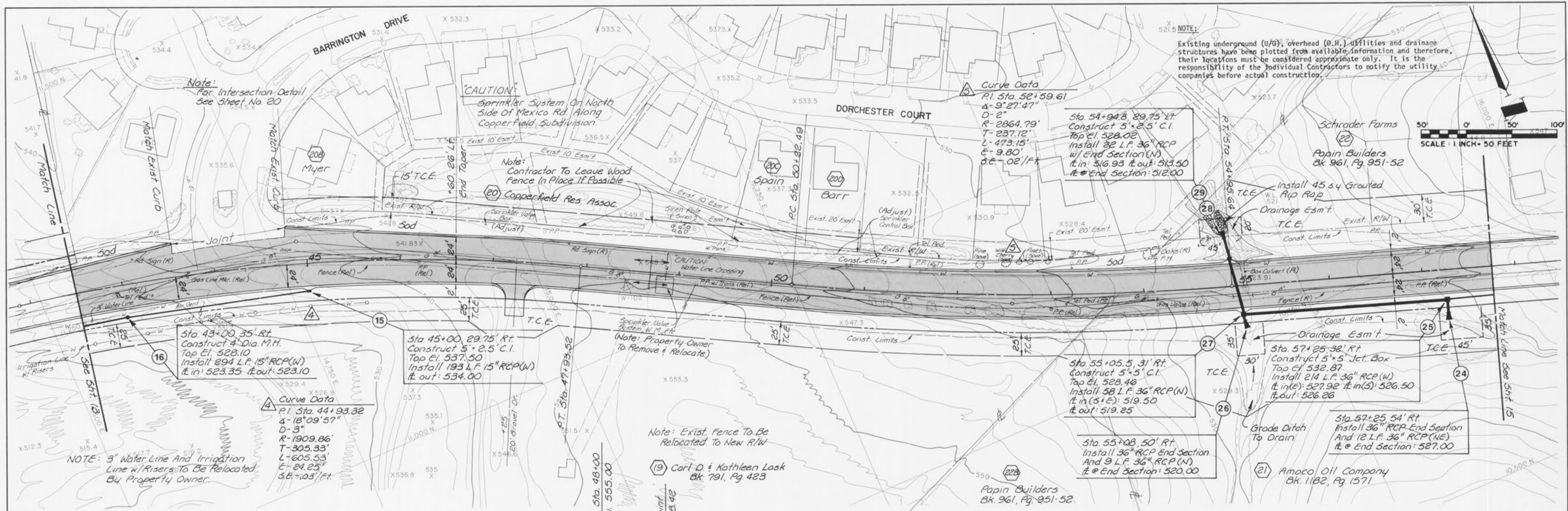


BM - SW Corner Of Concrete Porch @ First House East Of Hwy. K On North Side Of Mexico Road
Elev. 506.99
TBM - R.R. Spike In SW Side Of PP @ The SE Corner Of Mexico Road + White Oak Lane.
Elev. 539.45

GBA GEORGE BUTLER ASSOCIATES, INC. CONSULTING ENGINEERS/ARCHITECTS LANDSCAPE ARCHITECTS/PLANNERS	OFFICES: THE ENTERPRISE BUILDING 830 ENTERPRISE ROAD KANSAS CITY, MISSOURI 64108 COLONIAL PLAZA SUITE 4 141 E. ELM O'FALLON, MISSOURI 63366	
	MEXICO ROAD IMPROVEMENTS HIGHWAY "K" TO SALT LICK ROAD PLAN AND PROFILE CITY OF O'FALLON, MISSOURI	
	JOB NO. 3948 DATE Nov. 1983 SCALE 1" = 50' SHEET NO. 12 OF 65	



DESIGNED BY REH DRAWN BY KF CHECKED BY WAC



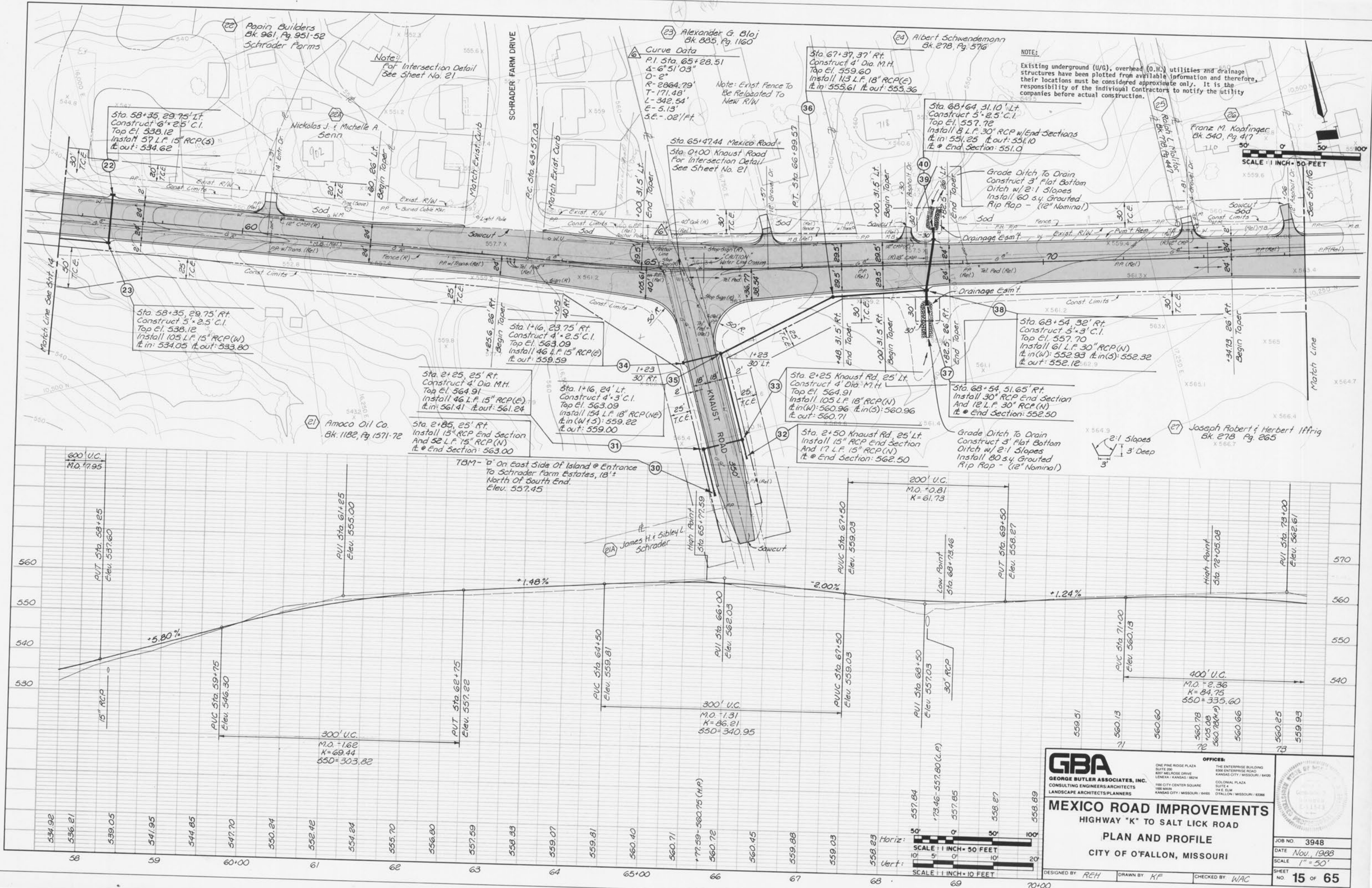
GBA
 GEORGE BUTLER ASSOCIATES, INC.
 CONSULTING ENGINEERS/ARCHITECTS
 LANDSCAPE ARCHITECTS/PLANNERS

OFFICE:
 THE ENTERPRISE BUILDING
 630 ENTERPRISE ROAD
 KANSAS CITY, MISSOURI 64108
 COLONIAL PLAZA
 SUITE 4
 114 E. 8th
 O'FALLON, MISSOURI 63366

MEXICO ROAD IMPROVEMENTS
 HIGHWAY "K" TO SALT LICK ROAD
 PLAN AND PROFILE
 CITY OF O'FALLON, MISSOURI

DESIGNED BY REH DRAWN BY KF CHECKED BY WAC

JOB NO. 3948
 DATE Nov, 1988
 SCALE 1" = 50'
 SHEET NO. 14 OF 65



NOTE:
Existing underground (U/G), overhead (O.H.) utilities and drainage structures have been plotted from available information and therefore, their locations must be considered approximate only. It is the responsibility of the individual Contractors to notify the utility companies before actual construction.

SCALE: 1" = 50 FEET

GBA
GEORGE BUTLER ASSOCIATES, INC.
CONSULTING ENGINEERS/ARCHITECTS
LANDSCAPE ARCHITECTS/PLANNERS

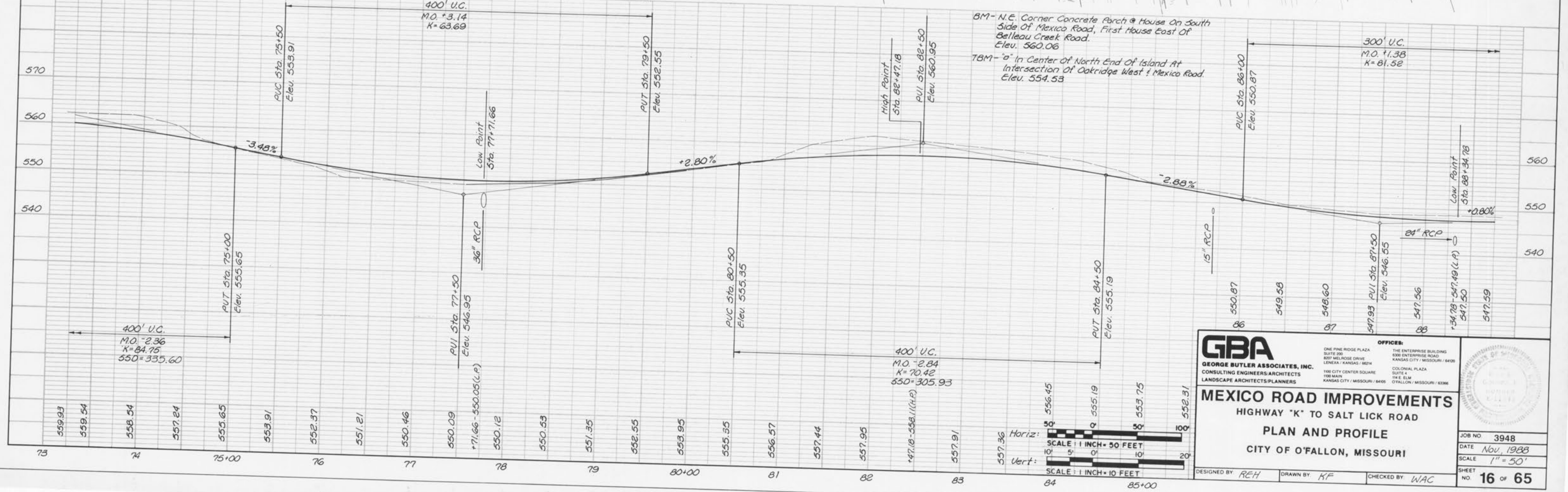
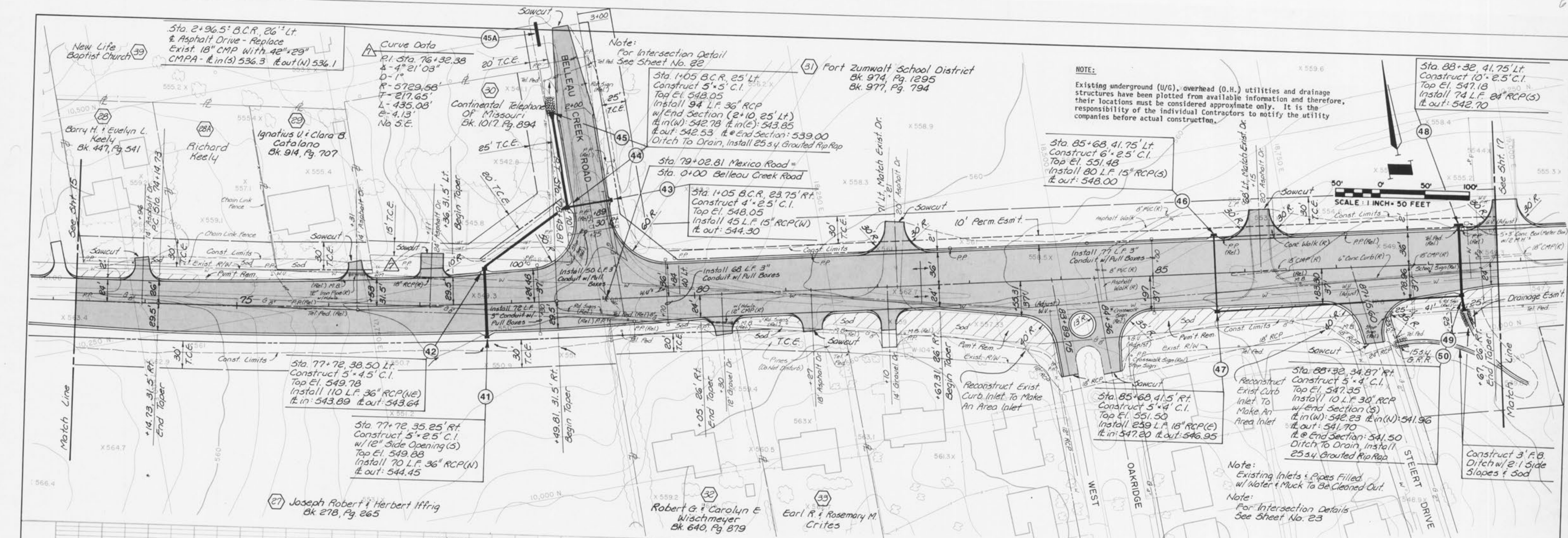
OFFICES:
ONE PINE RIDGE PLAZA
SUITE 200
807 MELROSE DRIVE
LENEXA - KANSAS / 6624
100 CITY CENTER SQUARE
SUITE A
100 MAIN
KANSAS CITY / MISSOURI / 64105

THE ENTERPRISE BUILDING
6000 ENTERPRISE ROAD
KANSAS CITY / MISSOURI / 64109
COLONIAL PLAZA
SUITE A
THE ELM
O'FALLON / MISSOURI / 63366

MEXICO ROAD IMPROVEMENTS
HIGHWAY "K" TO SALT LICK ROAD
PLAN AND PROFILE
CITY OF O'FALLON, MISSOURI

DESIGNED BY REH DRAWN BY KF CHECKED BY WAC

JOB NO. 3948
DATE Nov, 1988
SCALE 1" = 50'
SHEET NO. 15 OF 65



GBA
 GEORGE BUTLER ASSOCIATES, INC.
 CONSULTING ENGINEERS ARCHITECTS
 LANDSCAPE ARCHITECTS/PLANNERS

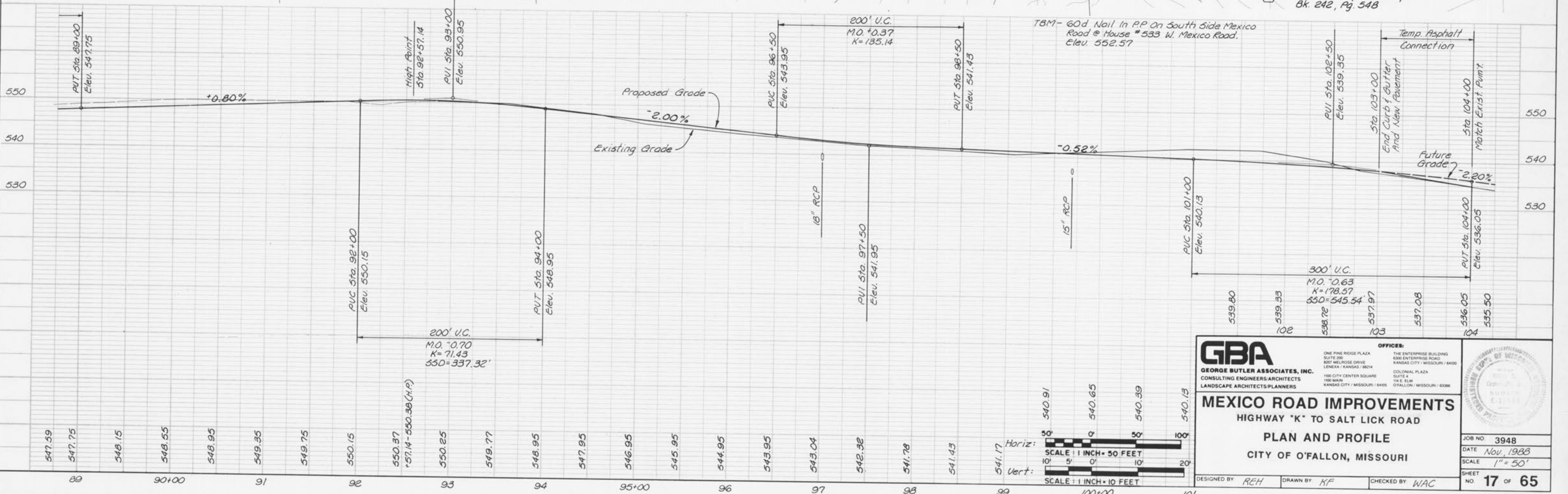
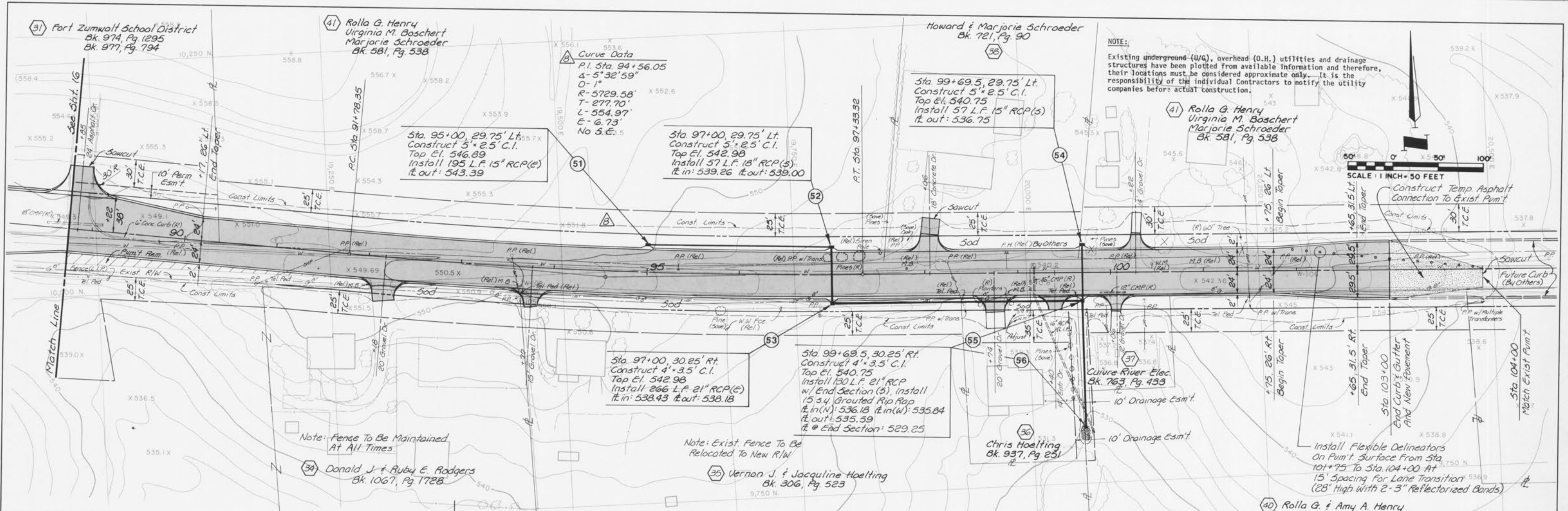
OFFICES:
 ONE PINE RIDGE PLAZA
 SUITE 200
 801 MELROSE DRIVE
 LENEXA, KANSAS / 66242
 188 CITY CENTER SQUARE
 SUITE 4
 116 E. BLM
 KANSAS CITY, MISSOURI / 64105

THE ENTERPRISE BUILDING
 6000 ENTERPRISE ROAD
 KANSAS CITY, MISSOURI / 64105
 COLONIAL PLAZA
 SUITE 4
 116 E. BLM
 OTTAWA, MISSOURI / 63366

MEXICO ROAD IMPROVEMENTS
 HIGHWAY "K" TO SALT LICK ROAD
PLAN AND PROFILE
 CITY OF O'FALLON, MISSOURI

DESIGNED BY REH DRAWN BY KF CHECKED BY WAC

JOB NO. 3948
 DATE Nov, 1988
 SCALE 1" = 50'
 SHEET NO. 16 OF 65



GBA
 GEORGE BUTLER ASSOCIATES, INC.
 CONSULTING ENGINEERS/ARCHITECTS
 LANDSCAPE ARCHITECTS/PLANNERS

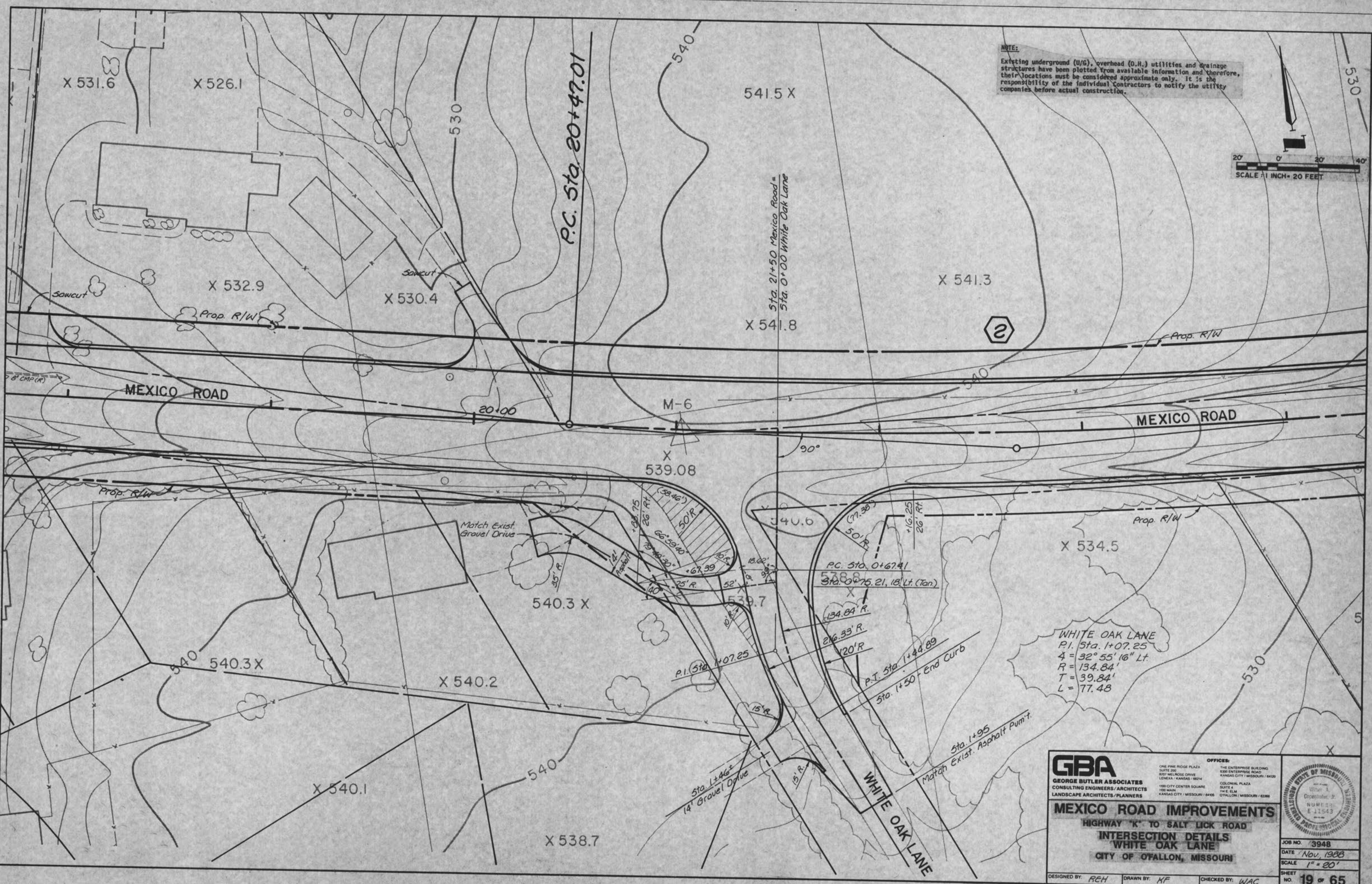
OFFICES:
 ONE PINE RIDGE PLAZA
 SUITE 300
 8207 MELROSE DRIVE
 LENEXA, KANSAS 66242
 THE CITY CENTER SQUARE
 100 MAIN
 KANSAS CITY, MISSOURI 64101

THE ENTERPRISE BUILDING
 830 ENTERPRISE ROAD
 KANSAS CITY, MISSOURI 64108
 COLONIAL PLAZA
 SUITE 4
 114 E. ELM
 O'FALLON, MISSOURI 63368

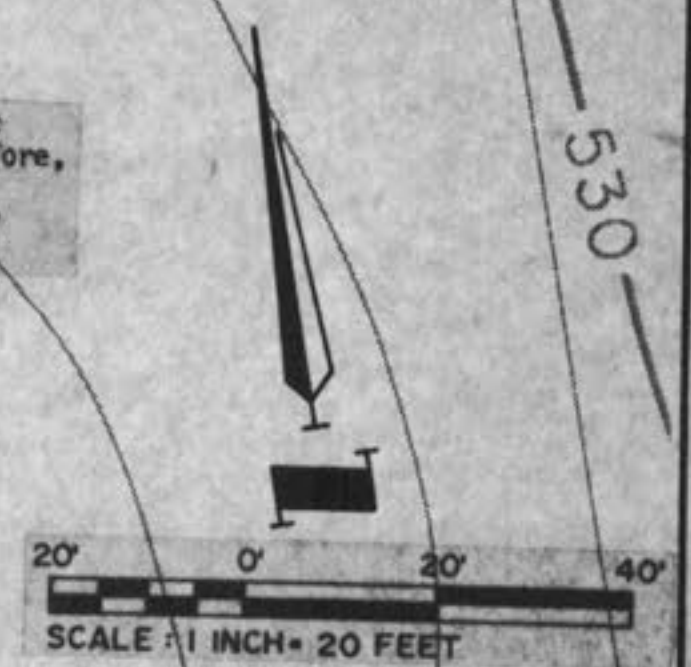
MEXICO ROAD IMPROVEMENTS
 HIGHWAY "K" TO SALT LICK ROAD
 PLAN AND PROFILE
 CITY OF O'FALLON, MISSOURI

DESIGNED BY REH DRAWN BY KF CHECKED BY WAC

JOB NO. 3948
 DATE Nov. 1988
 SCALE 1" = 50'
 SHEET NO. 17 OF 65



NOTE:
 Existing underground (U/G), overhead (O.H.) utilities and drainage structures have been plotted from available information and therefore, their locations must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction.



GBA
 GEORGE BUTLER ASSOCIATES
 CONSULTING ENGINEERS/ARCHITECTS
 LANDSCAPE ARCHITECTS/PLANNERS

OFFICES:
 ONE PINE RIDGE PLAZA
 SUITE 200
 807 MELBOURNE DRIVE
 LENEXA, KANSAS 66242
 100 CITY CENTER SQUARE
 100 MAIN
 KANSAS CITY, MISSOURI 64108

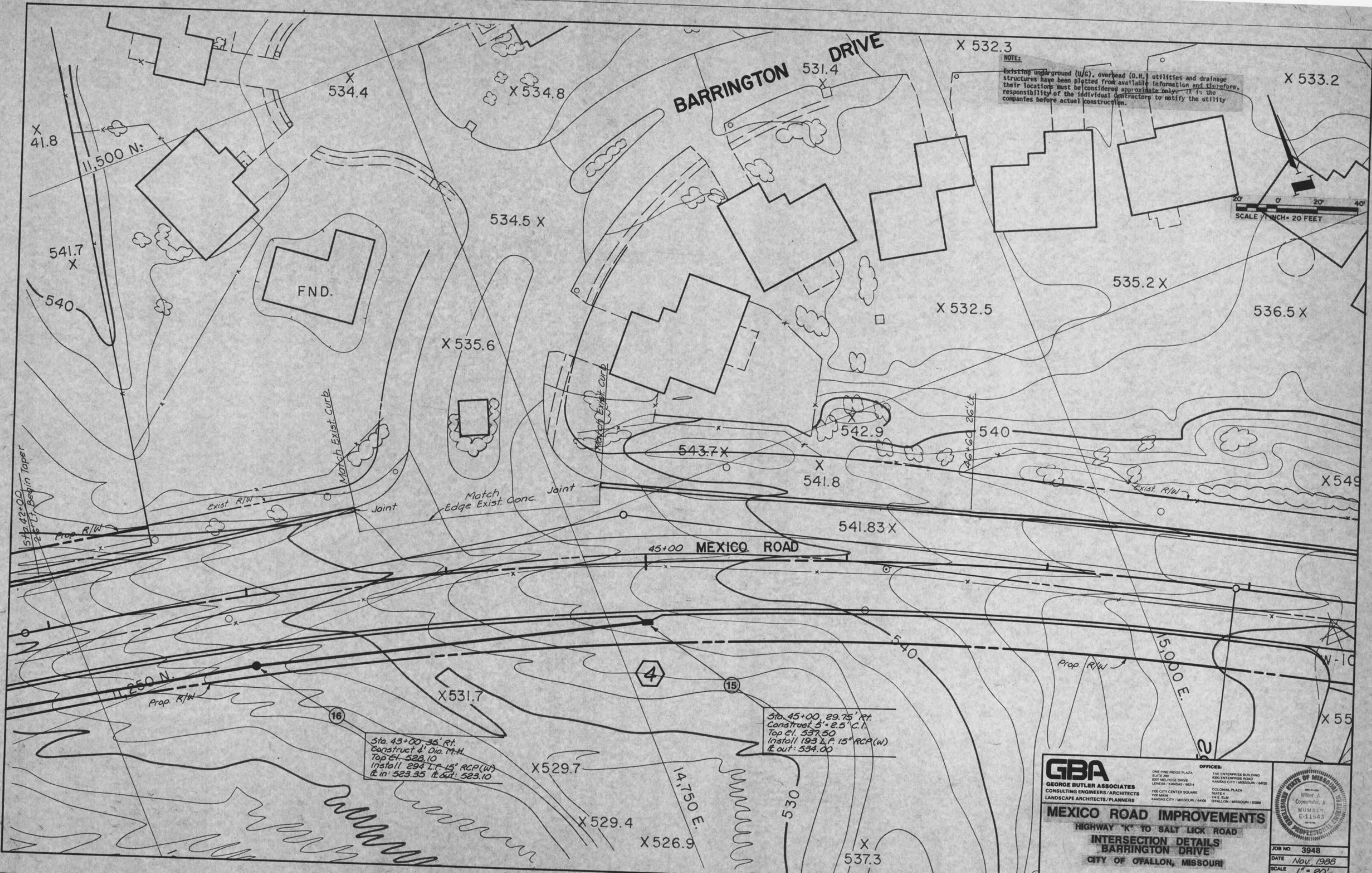
THE ENTERPRISE BUILDING
 6300 ENTERPRISE ROAD
 SPRING CITY, MISSOURI 64082
 COLONIAL PLAZA
 SUITE 4
 ONE ELM
 OFALLON, MISSOURI 63368

MEXICO ROAD IMPROVEMENTS
 HIGHWAY 'K' TO SALT LICK ROAD
 INTERSECTION DETAILS
 WHITE OAK LANE
 CITY OF OFALLON, MISSOURI

DESIGNED BY: REH DRAWN BY: KF CHECKED BY: WAC

STATE OF MISSOURI
 REGISTERED PROFESSIONAL ENGINEER
 License No. E-11543
 Copeland, Jr.

JOB NO. 3948
 DATE Nov, 1988
 SCALE 1" = 20'
 SHEET NO. 19 OF 65



NOTE:
Existing underground (U/G), overhead (O.H.) utilities and drainage structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction.

SCALE 1" = 20' FEET

Sta. 43+00 - 36' Rt.
Construct 4' Dia. M.H.
Top Cl. 528.10
Install 294 L.F. 15" RCP (W)
It in: 523.35 It. out: 523.10

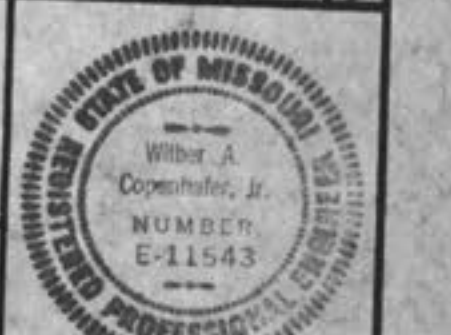
Sta. 45+00 - 29.75' Rt.
Construct 5' x 2.5' C.I.
Top Cl. 537.50
Install 193 L.F. 15" RCP (W)
It. out: 534.00

GBA
GEORGE BUTLER ASSOCIATES
CONSULTING ENGINEERS/ARCHITECTS
LANDSCAPE ARCHITECTS/PLANNERS

OFFICES:
ONE PINE RIDGE PLAZA
SUITE 200
800 MELROSE DRIVE
LENEXA, KANSAS 66242
100 CITY CENTER SQUARE
SUITE 4
100 MAIN
KANSAS CITY, MISSOURI 64105

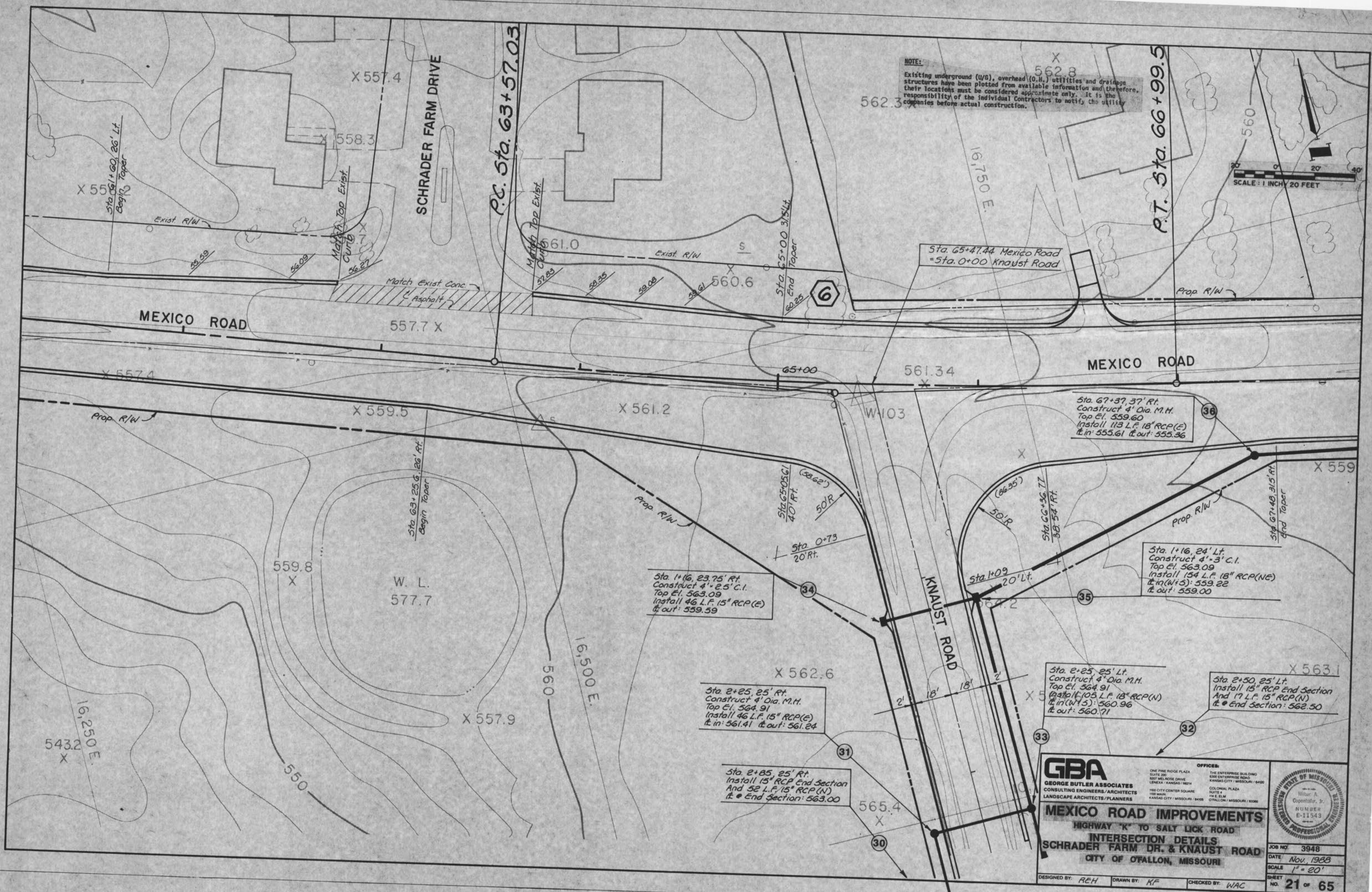
THE ENTERPRISE BUILDING
800 ENTERPRISE ROAD
KANSAS CITY, MISSOURI 64108
COLONIAL PLAZA
SUITE 4
THE ELM
OFALLON, MISSOURI 63366

MEXICO ROAD IMPROVEMENTS
HIGHWAY "K" TO SALT LICK ROAD
INTERSECTION DETAILS
BARRINGTON DRIVE
CITY OF OFALLON, MISSOURI

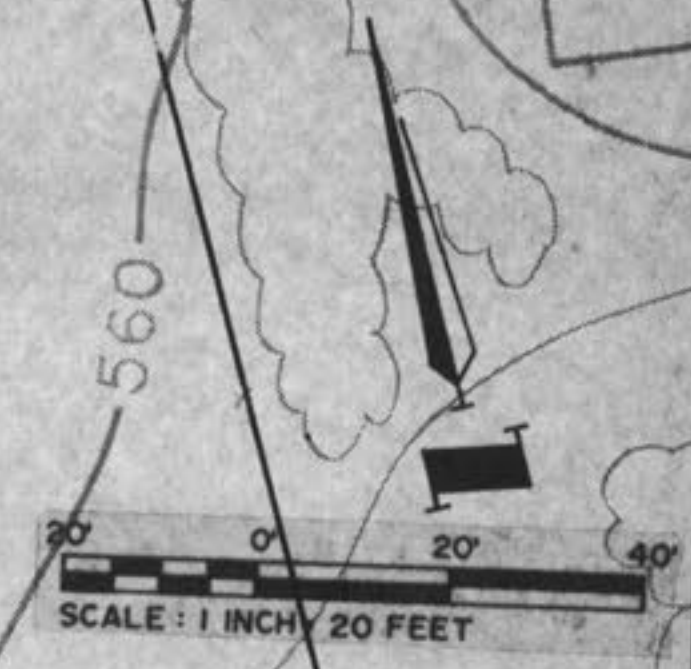


JOB NO. 3948
DATE Nov, 1988
SCALE 1" = 20'
SHEET NO. 20 OF 65

DESIGNED BY: REH DRAWN BY: KF CHECKED BY: WAC



NOTE:
 Existing underground (U/G), overhead (O.H.) utilities and drainage structures have been plotted from available information and therefore, their locations must be considered approximate only. It is the responsibility of the individual Contractors to notify the utility companies before actual construction.



MEXICO ROAD

MEXICO ROAD

KNAUST ROAD

SCHRADER FARM DRIVE

P.C. Sta. 63+57.03

P.T. Sta. 66+99.5

Sta. 1+16, 23.75' Rt.
 Construct 4'-2.5' C.I.
 Top El. 563.09
 Install 46 L.F. 15" RCP (E)
 ft. in: 559.59 ft. out: 559.59

Sta. 2+25, 25' Rt.
 Construct 4' Dia. M.H.
 Top El. 564.91
 Install 46 L.F. 15" RCP (E)
 ft. in: 561.41 ft. out: 561.24

Sta. 2+85, 25' Rt.
 Install 15" RCP End Section
 And 52 L.F. 15" RCP (N)
 ft. in: 563.00

Sta. 67+37, 37' Rt.
 Construct 4' Dia. M.H.
 Top El. 559.60
 Install 113 L.F. 18" RCP (E)
 ft. in: 555.61 ft. out: 555.36

Sta. 1+16, 24' Lt.
 Construct 4'-3' C.I.
 Top El. 563.09
 Install 154 L.F. 18" RCP (NE)
 ft. in (W15): 559.22
 ft. out: 559.00

Sta. 2+25, 25' Lt.
 Construct 4' Dia. M.H.
 Top El. 564.91
 Install 105 L.F. 18" RCP (N)
 ft. in (W15): 560.96
 ft. out: 560.71

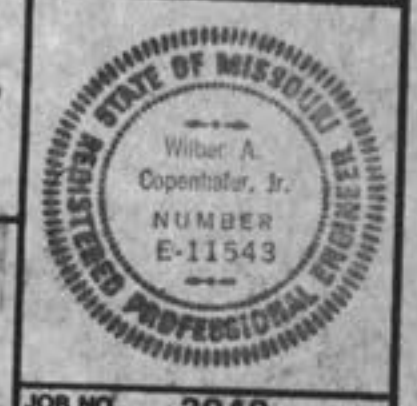
Sta. 2+50, 25' Lt.
 Install 15" RCP End Section
 And 17 L.F. 15" RCP (N)
 ft. in: 562.50

GBA
 GEORGE BUTLER ASSOCIATES
 CONSULTING ENGINEERS/ARCHITECTS
 LANDSCAPE ARCHITECTS/PLANNERS

OFFICES:
 ONE PINE RIDGE PLAZA
 SUITE 200
 8007 MELROSE DRIVE
 LENEXA, KANSAS 66242
 100 CITY CENTER SQUARE
 SUITE 4
 100 MARK
 KANSAS CITY, MISSOURI 64105

THE ENTERPRISE BUILDING
 5300 ENTERPRISE ROAD
 KANSAS CITY, MISSOURI 64109
 COLONIAL PLAZA
 SUITE 4
 174 E. ELM
 O'FALLON, MISSOURI 63366

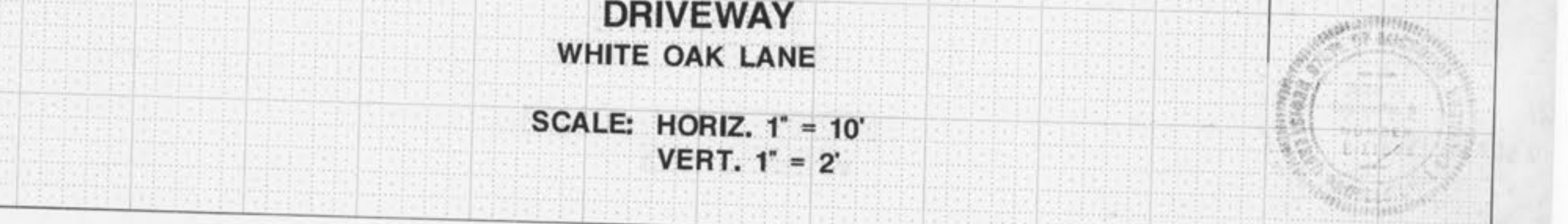
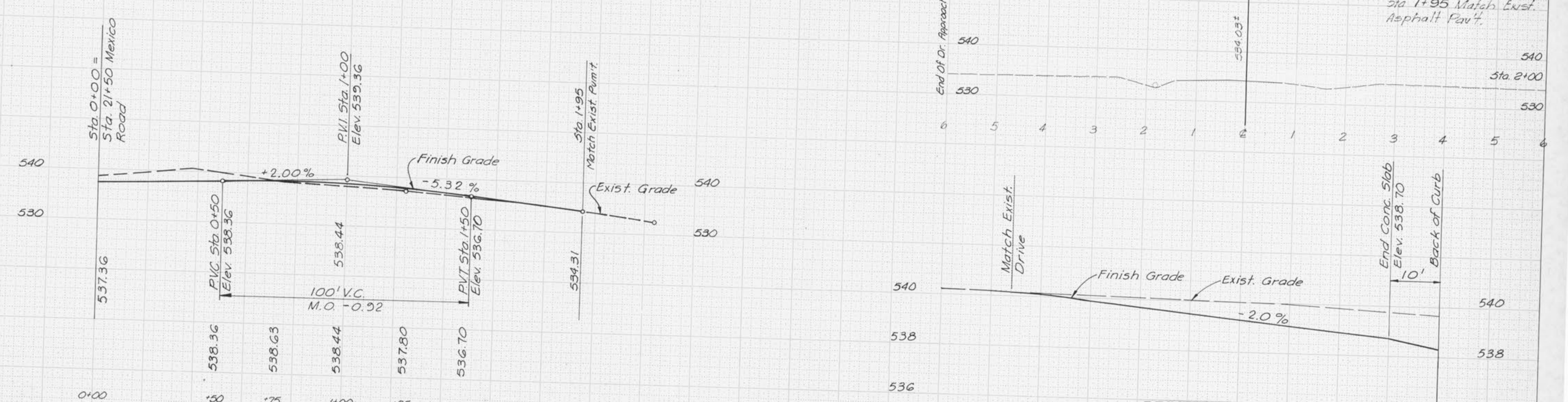
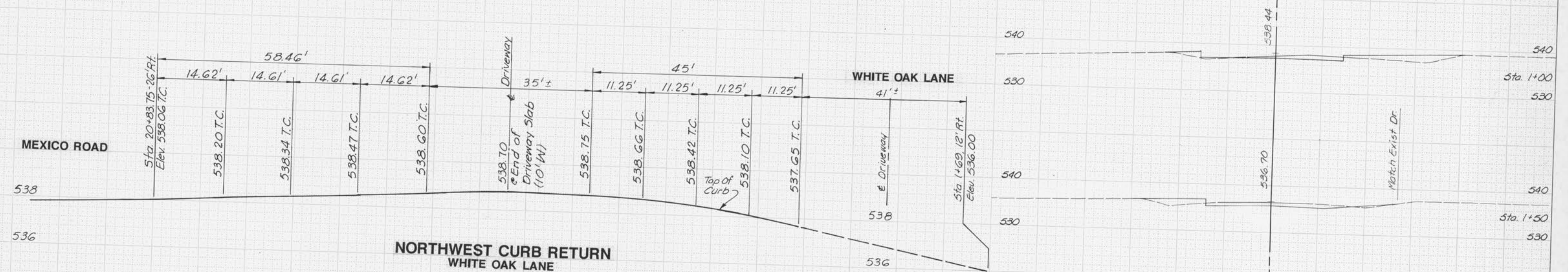
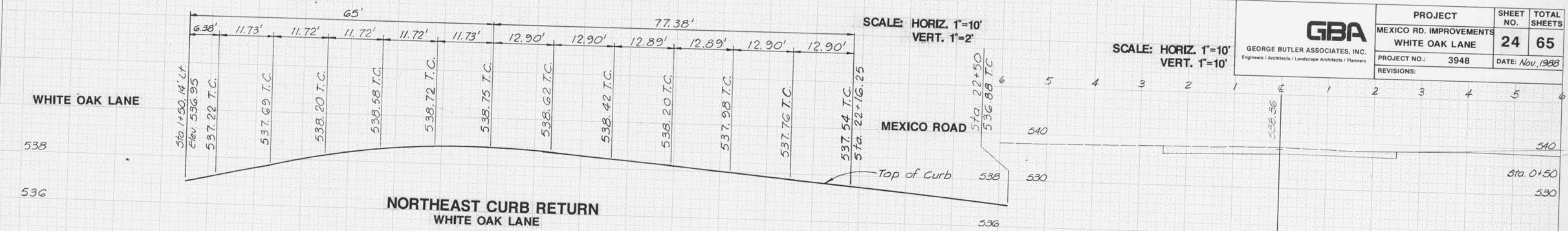
MEXICO ROAD IMPROVEMENTS
 HIGHWAY "K" TO SALT LICK ROAD
 INTERSECTION DETAILS
 SCHRADER FARM DR. & KNAUST ROAD
 CITY OF O'FALLON, MISSOURI



DESIGNED BY: REH DRAWN BY: KF CHECKED BY: WAC

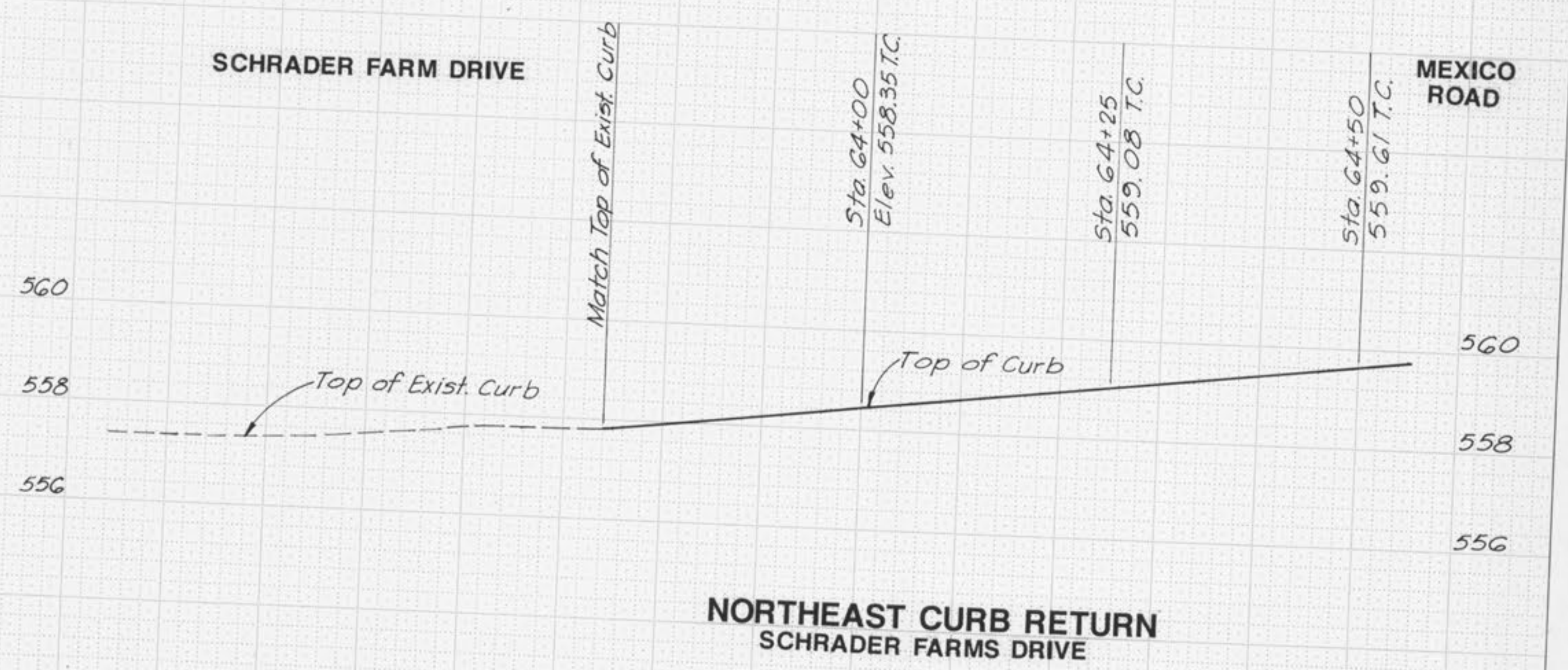
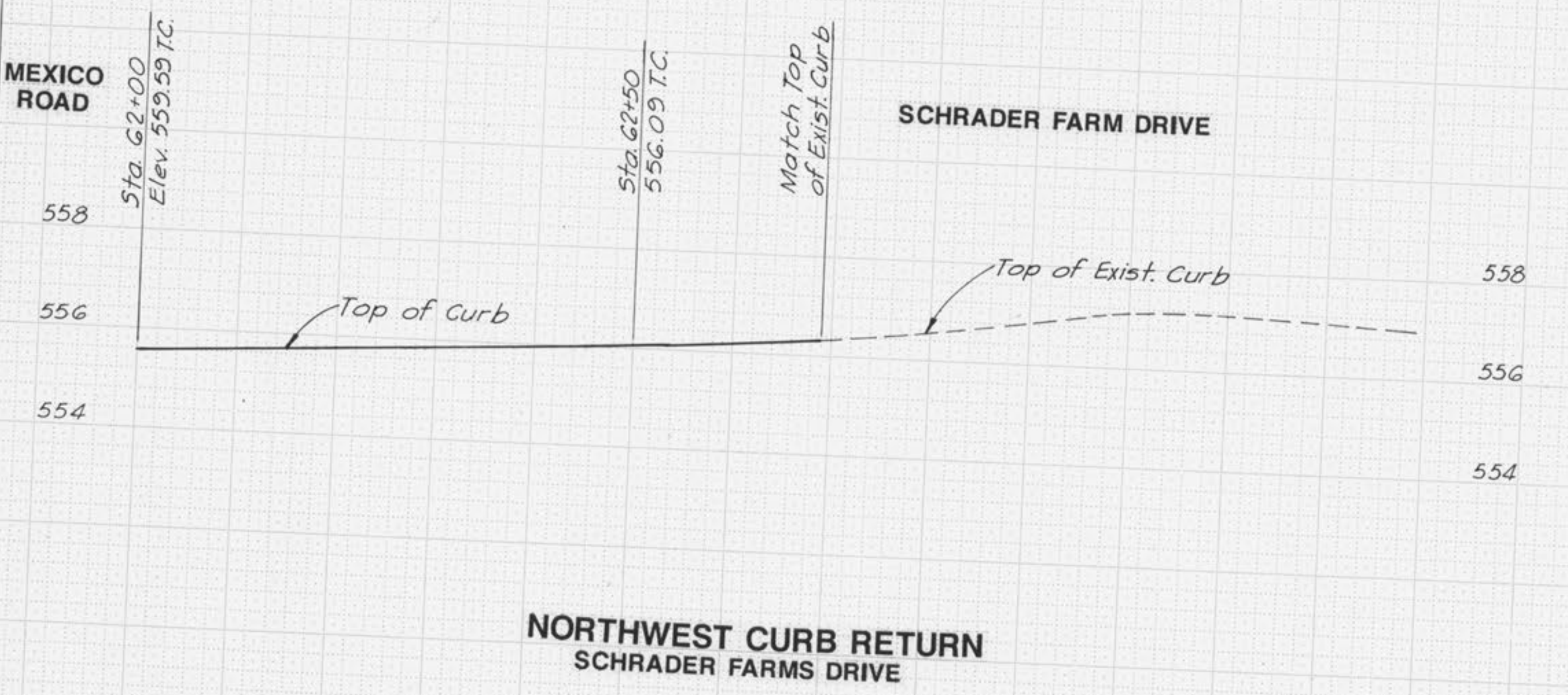
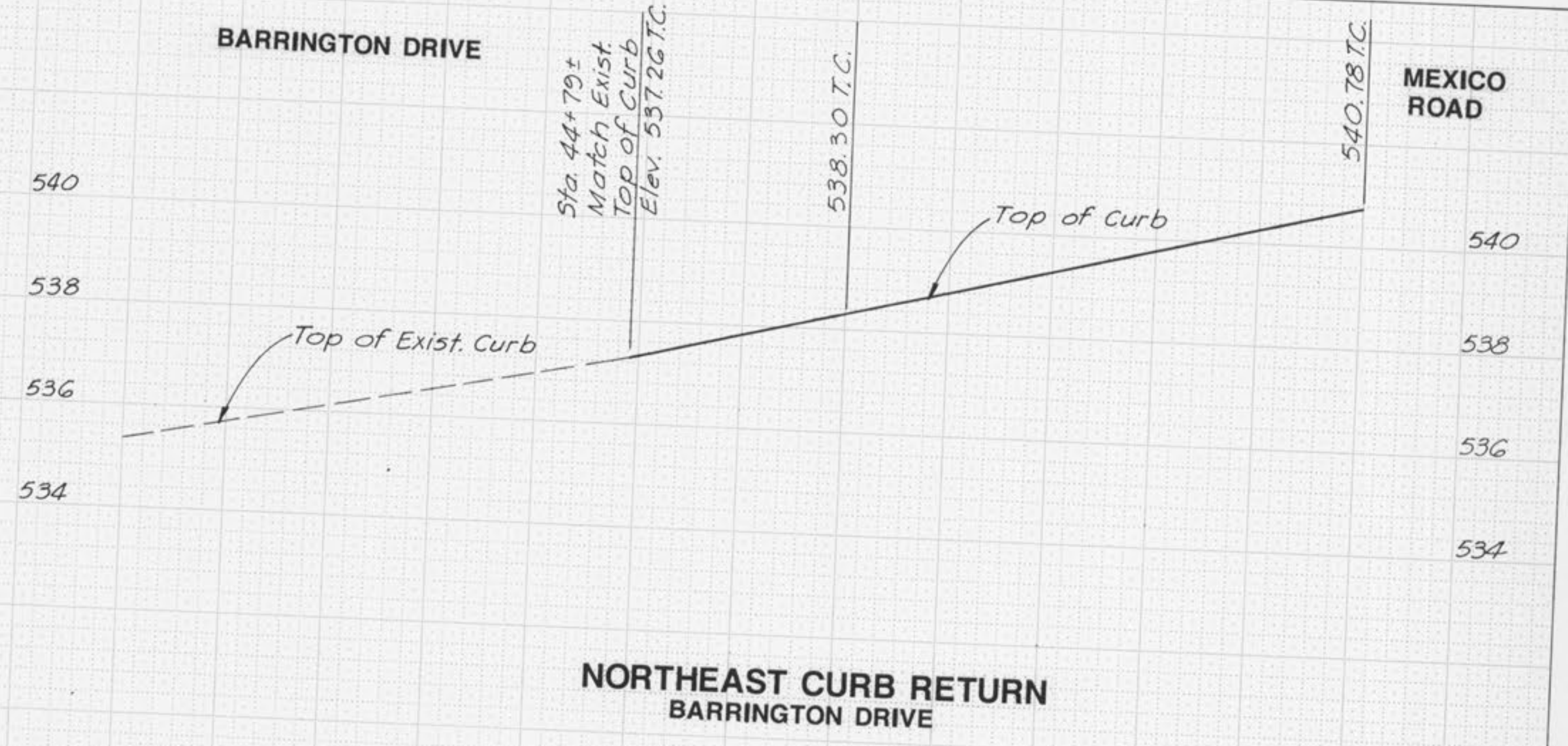
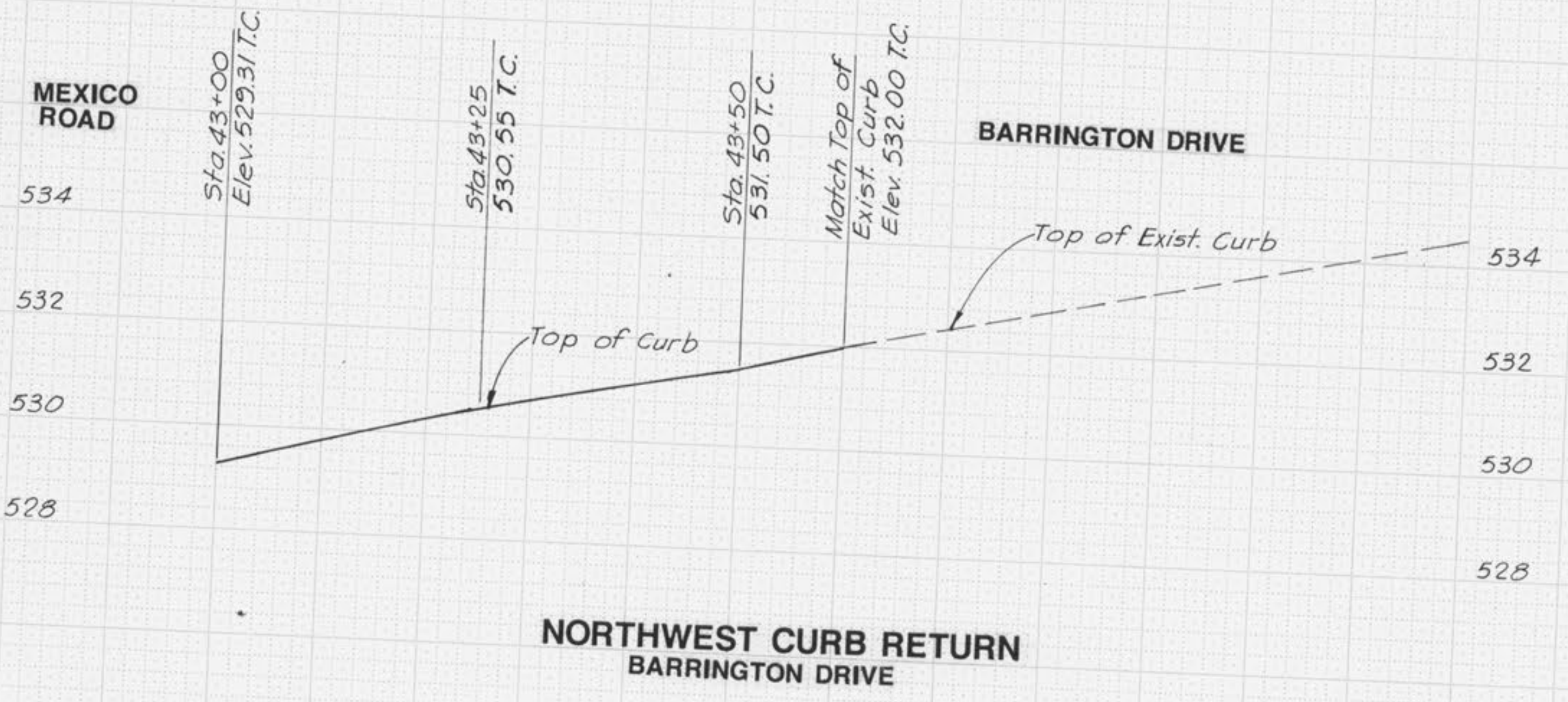
JOB NO. 3948
 DATE Nov. 1988
 SCALE 1" = 20'
 SHEET NO. 21 of 65

GBA GEORGE BUTLER ASSOCIATES, INC. Engineers / Architects / Landscape Architects / Planners	PROJECT		SHEET NO.	TOTAL SHEETS
	MEXICO RD. IMPROVEMENTS		24	65
	WHITE OAK LANE		PROJECT NO.: 3948	DATE: Nov, 1988
	REVISIONS:			



SCALE: HORIZ. 1"=10'
VERT. 1"=2'

GBA GEORGE BUTLER ASSOCIATES, INC. <small>Engineers / Architects / Landscape Architects / Planners</small>	PROJECT	SHEET NO.	TOTAL SHEETS
	MEXICO RD. IMPROVEMENTS SCHRADER FARMS DRIVE BARRINGTON DRIVE	25	65
	PROJECT NO.: 3948	DATE: Nov, 1988	
REVISIONS:			

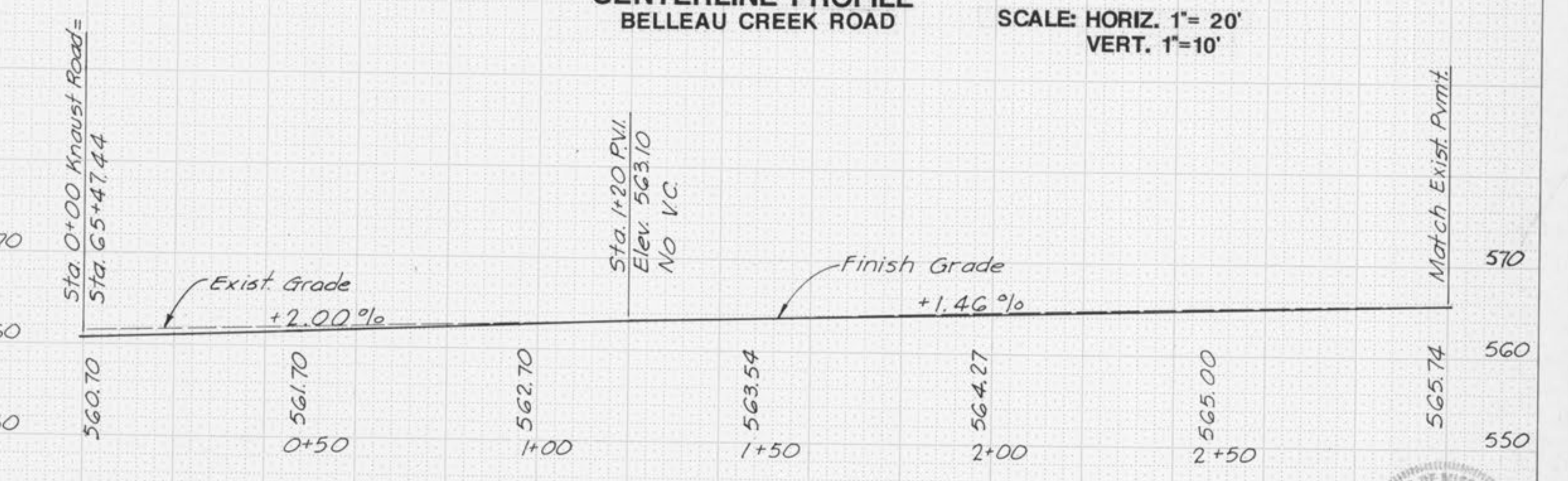
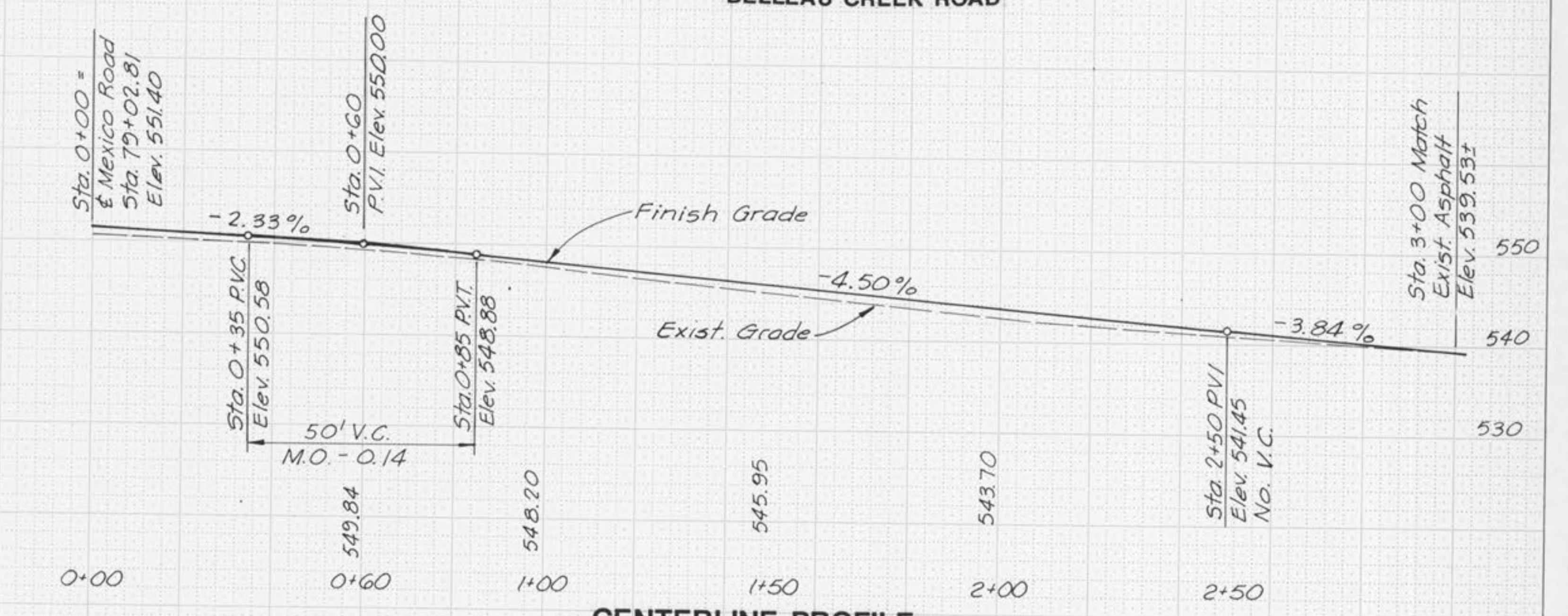
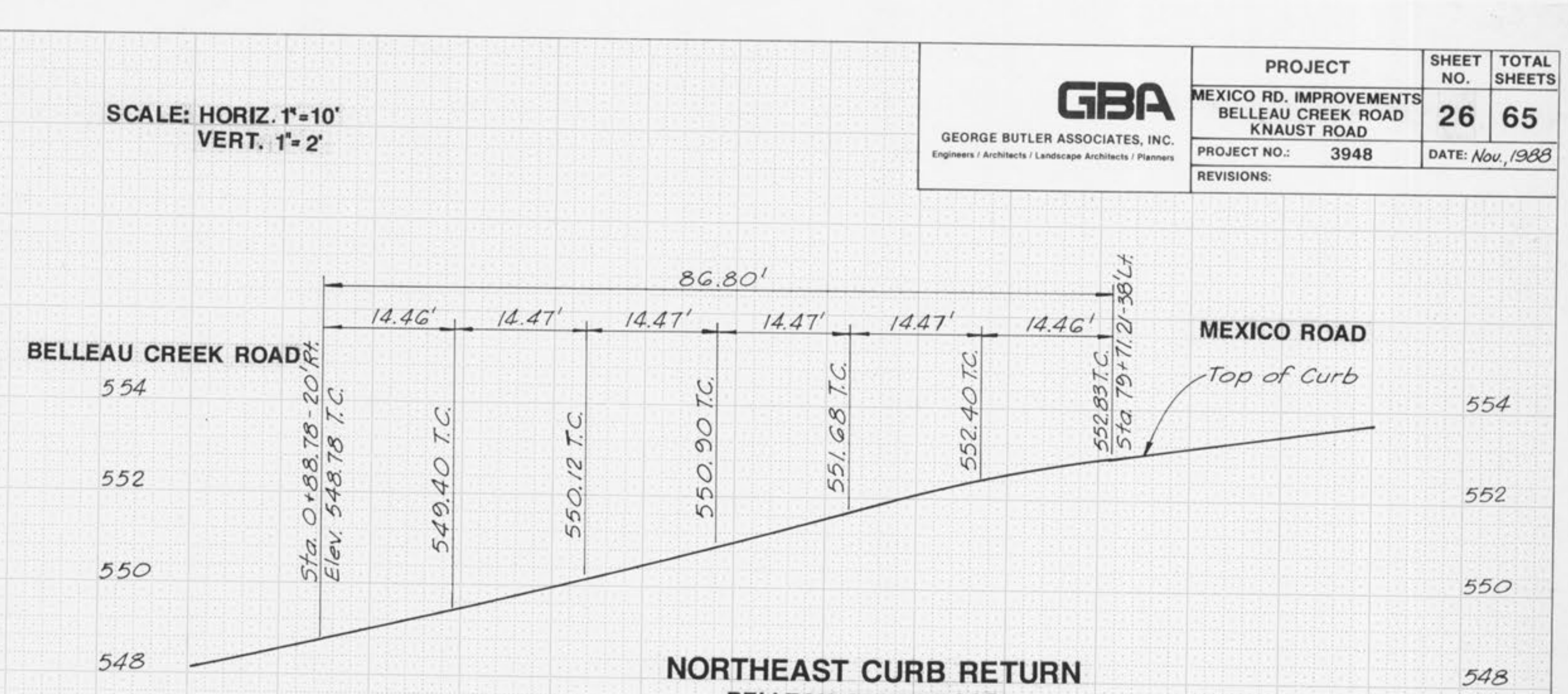
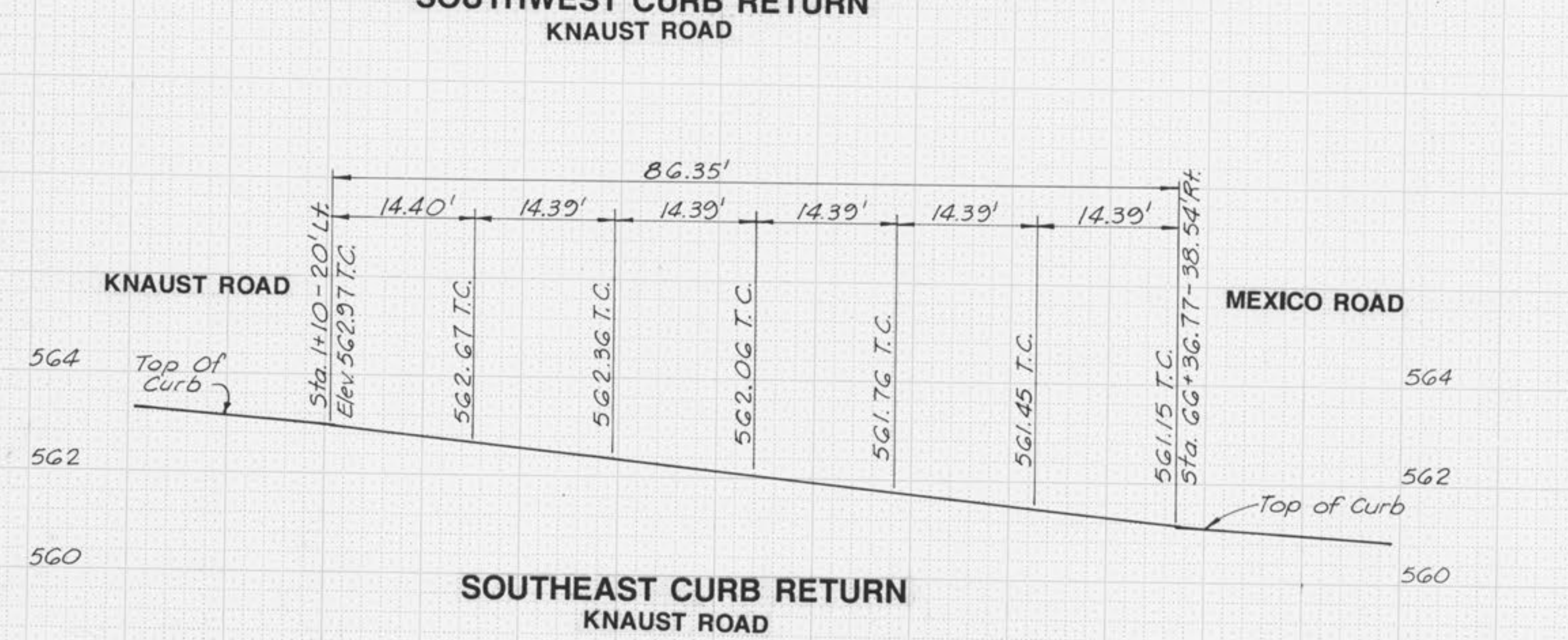
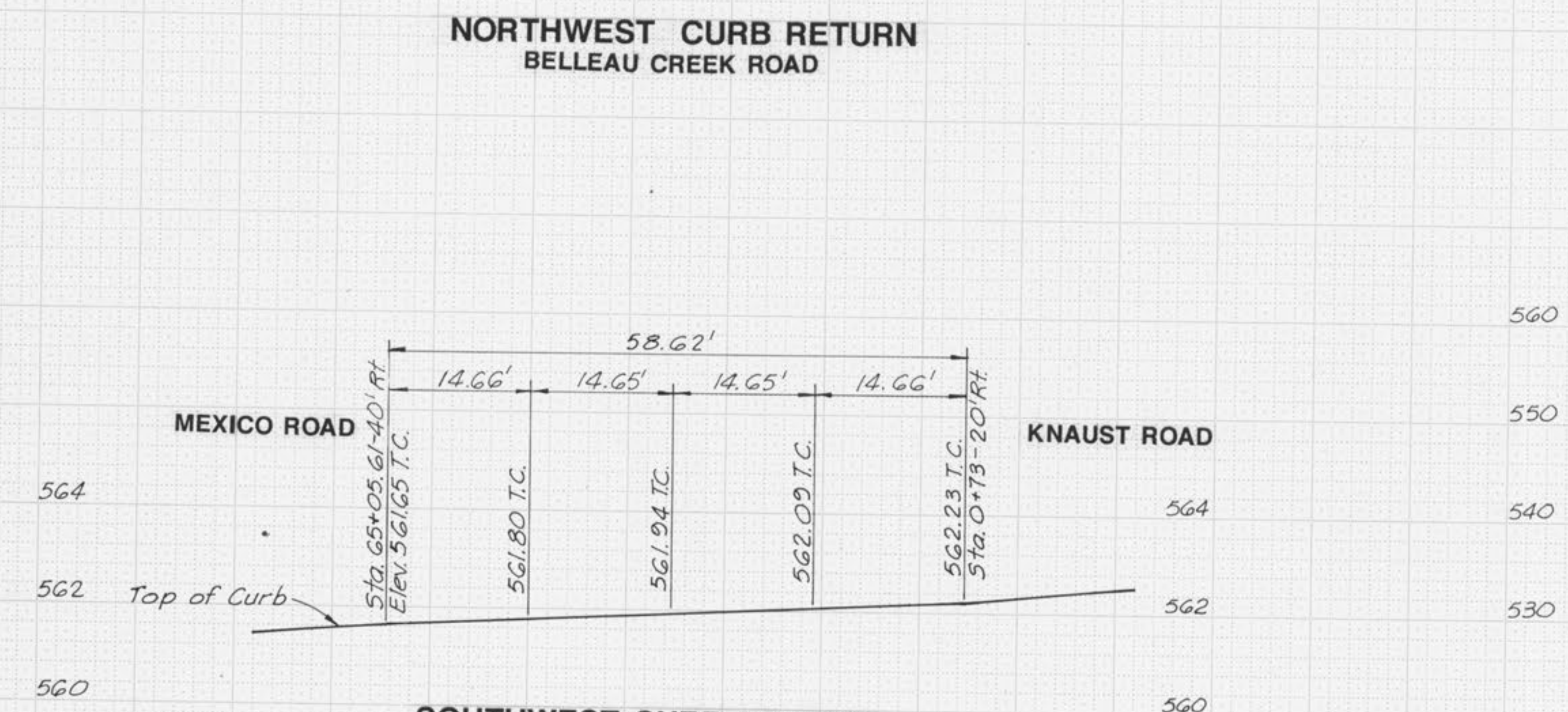
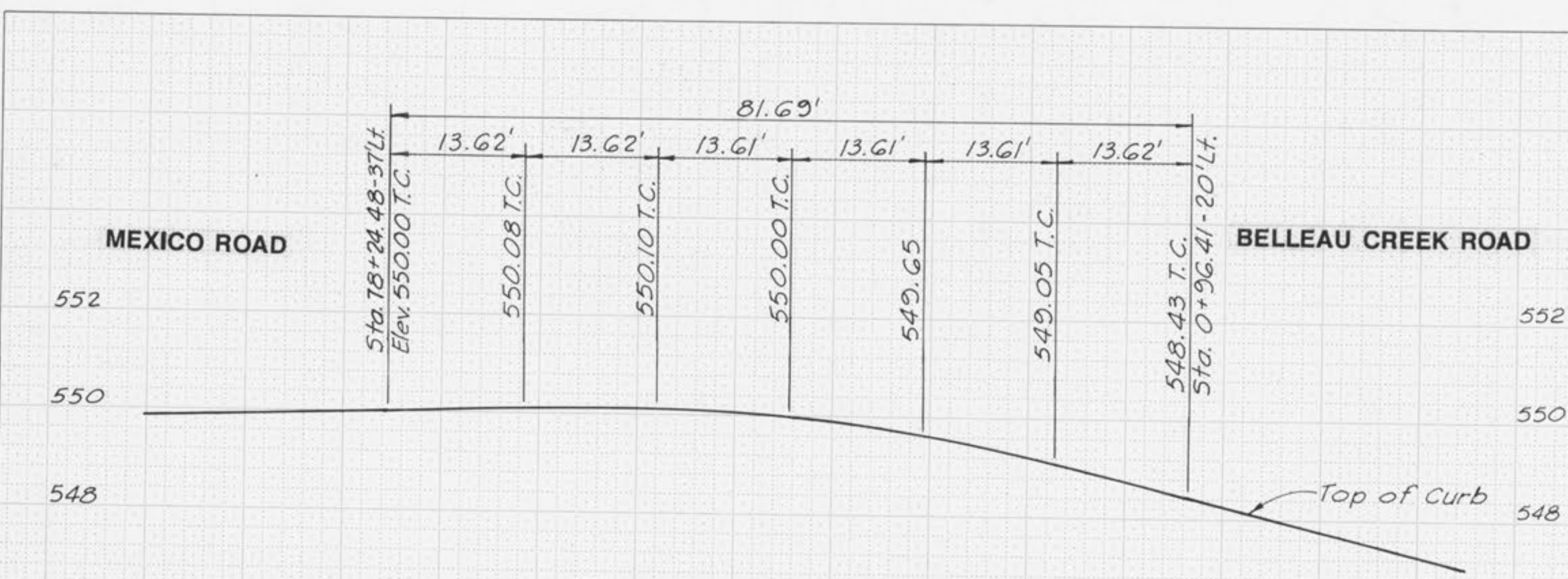




GEORGE BUTLER ASSOCIATES, INC.
Engineers / Architects / Landscape Architects / Planners


PROJECT	SHEET NO.	TOTAL SHEETS
MEXICO RD. IMPROVEMENTS BELLEAU CREEK ROAD KNAUST ROAD	26	65
PROJECT NO.: 3948	DATE: Nov, 1988	
REVISIONS:		

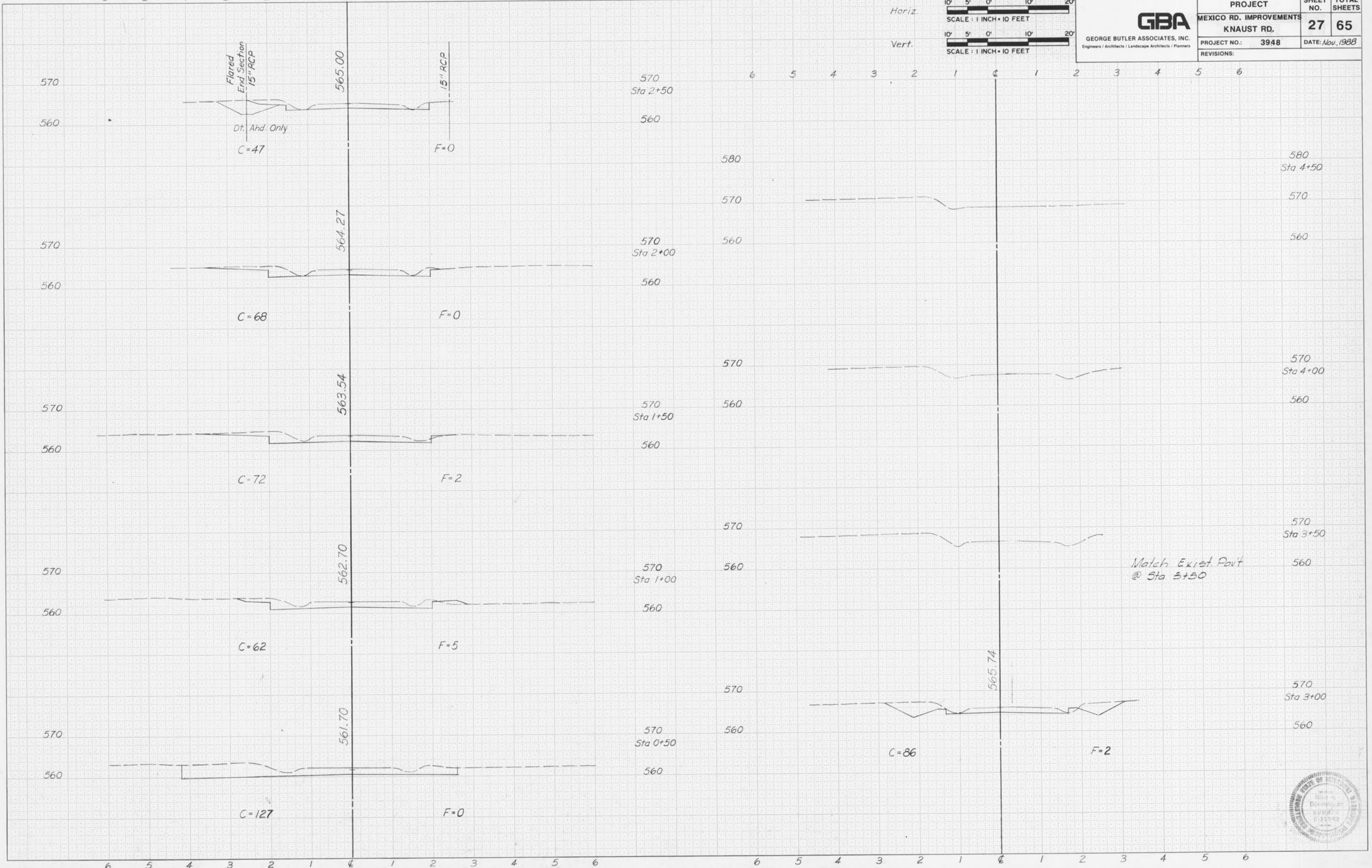
SCALE: HORIZ. 1"=10'
VERT. 1"=2'



6 5 4 3 2 1 0 1 2 3 4 5 6

Horiz. SCALE: 1 INCH = 10 FEET
Vert. SCALE: 1 INCH = 10 FEET

 GEORGE BUTLER ASSOCIATES, INC. <small>Engineers / Architects / Landscape Architects / Planners</small>	PROJECT	SHEET NO.	TOTAL SHEETS
	MEXICO RD. IMPROVEMENTS KNAUST RD.	27	65
	PROJECT NO.: 3948	DATE: Nov, 1988	
REVISIONS:			

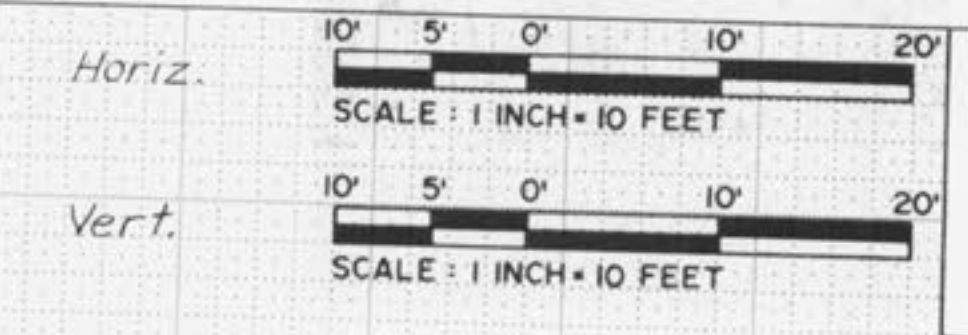


6 5 4 3 2 1 0 1 2 3 4 5 6

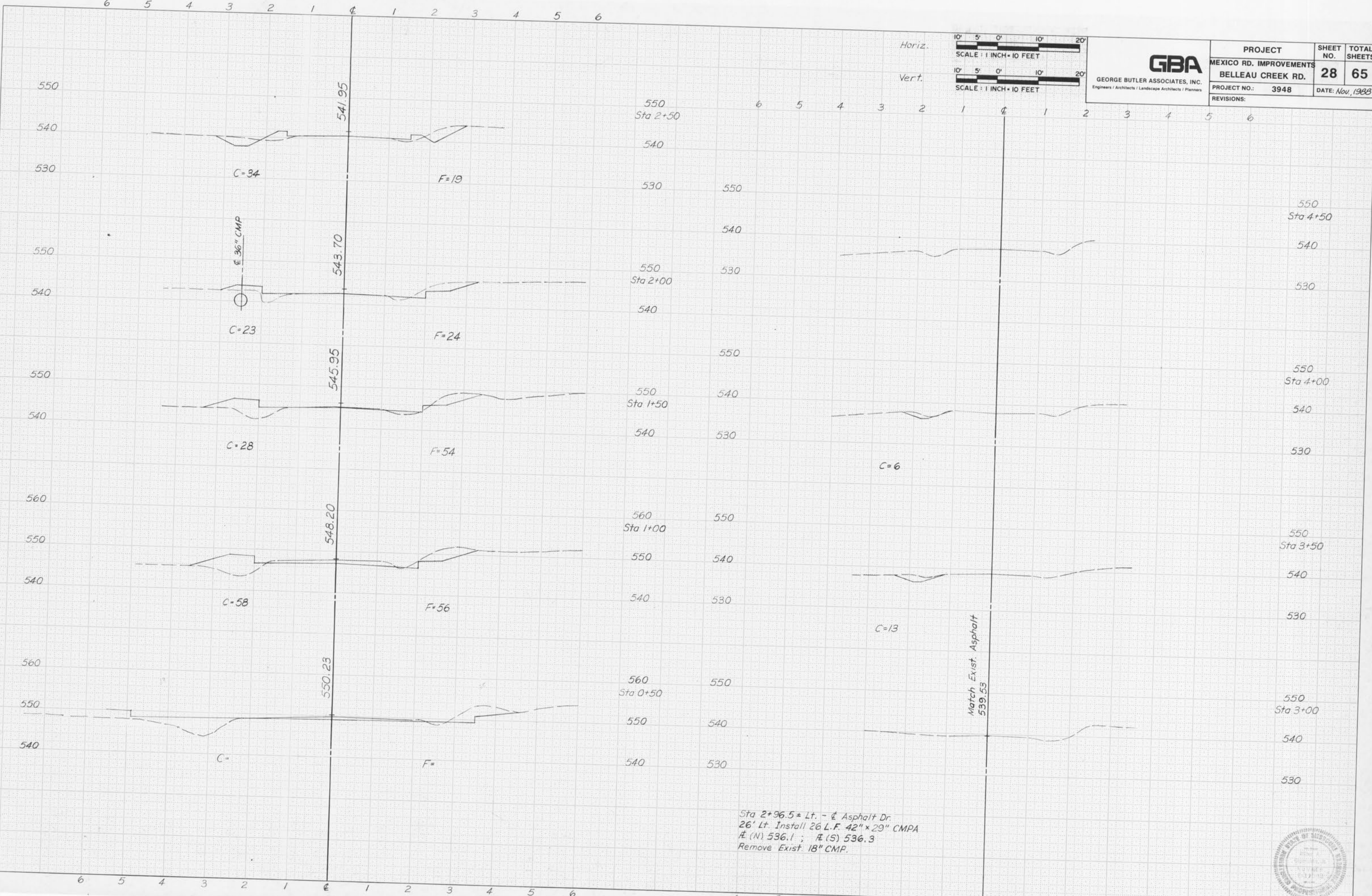
6 5 4 3 2 1 0 1 2 3 4 5 6



6 5 4 3 2 1 0 1 2 3 4 5 6



GBA GEORGE BUTLER ASSOCIATES, INC. <small>Engineers / Architects / Landscape Architects / Planners</small>	PROJECT		SHEET NO.	TOTAL SHEETS
	MEXICO RD. IMPROVEMENTS		28	65
	BELLEAU CREEK RD.		PROJECT NO.: 3948	DATE: Nov, 1988
	REVISIONS:			

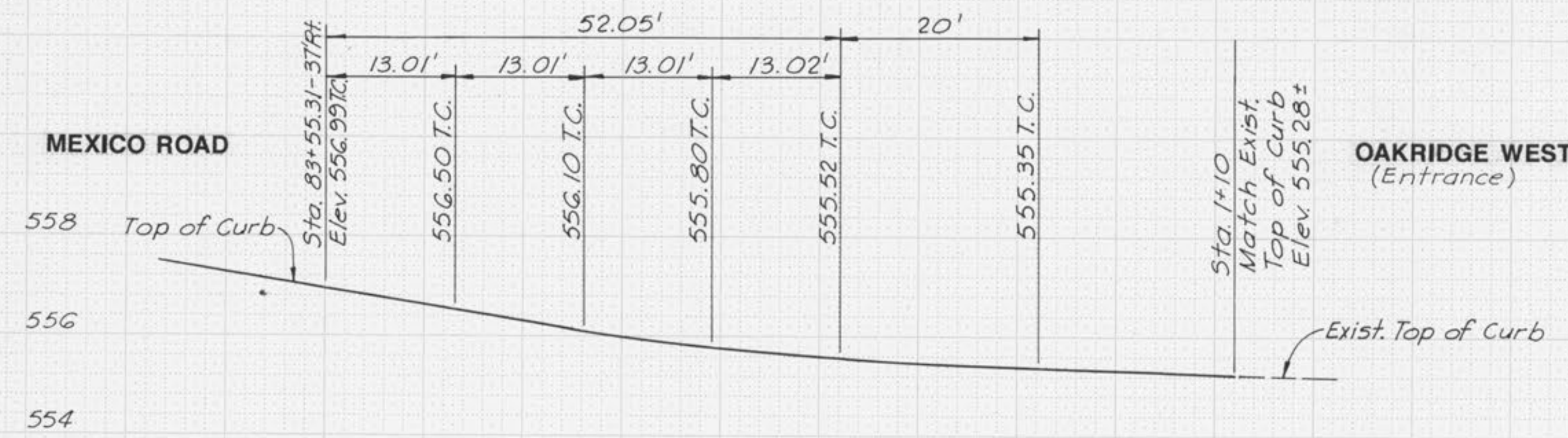




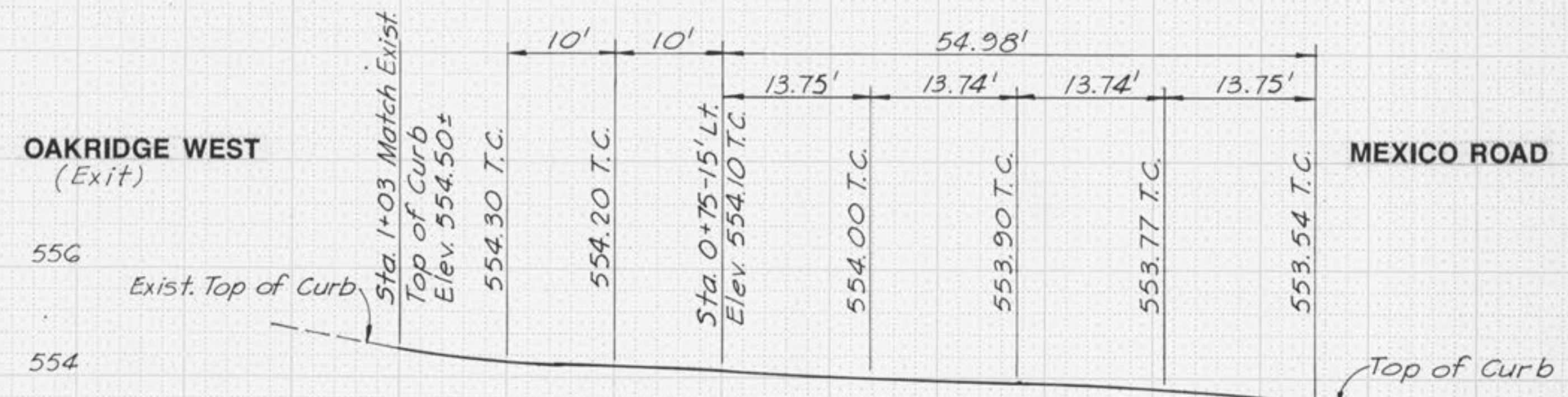
GEORGE BUTLER ASSOCIATES, INC.
Engineers / Architects / Landscape Architects / Planners

PROJECT	SHEET NO.	TOTAL SHEETS
MEXICO RD. IMPROVEMENTS	29	65
OAKRIDGE WEST		
PROJECT NO.: 3948	DATE: Nov., 1988	
REVISIONS:		

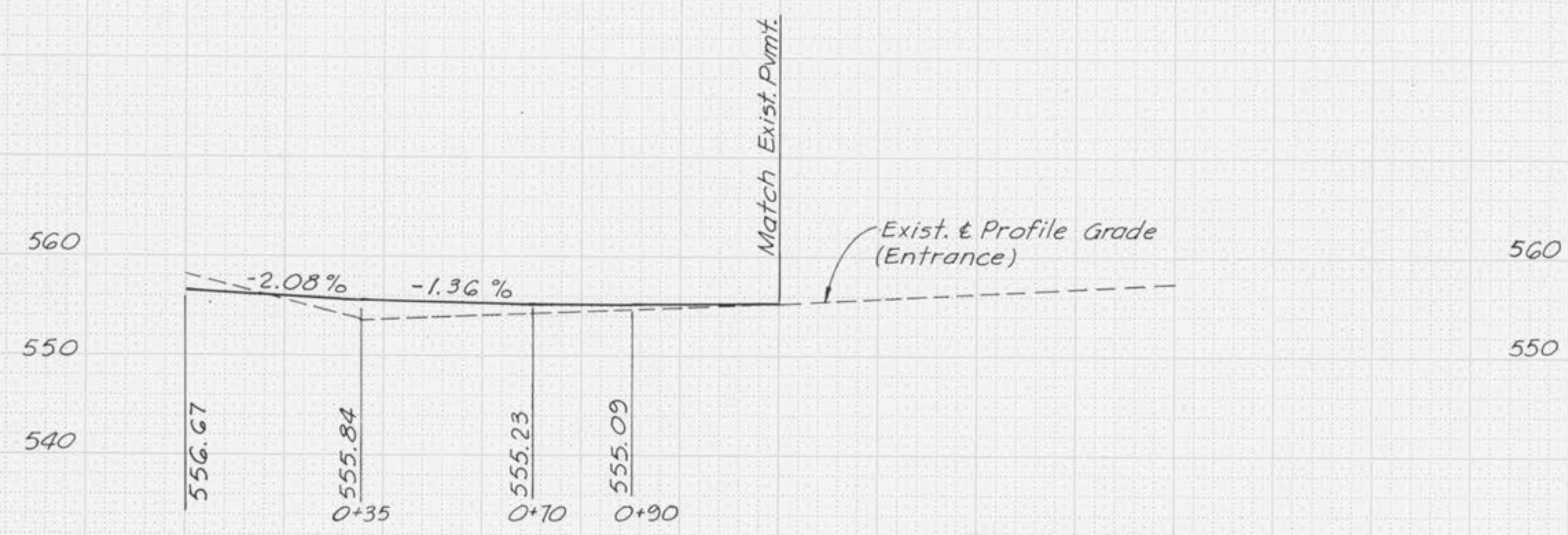
SCALE: HORIZ. 1"=10'
VERT. 1"=2'



SOUTHWEST CURB RETURN
OAKRIDGE WEST



SOUTHEAST CURB RETURN
OAKRIDGE WEST



CENTERLINE PROFILE
OAKRIDGE WEST
Sta. 83+89.75 & Entrance

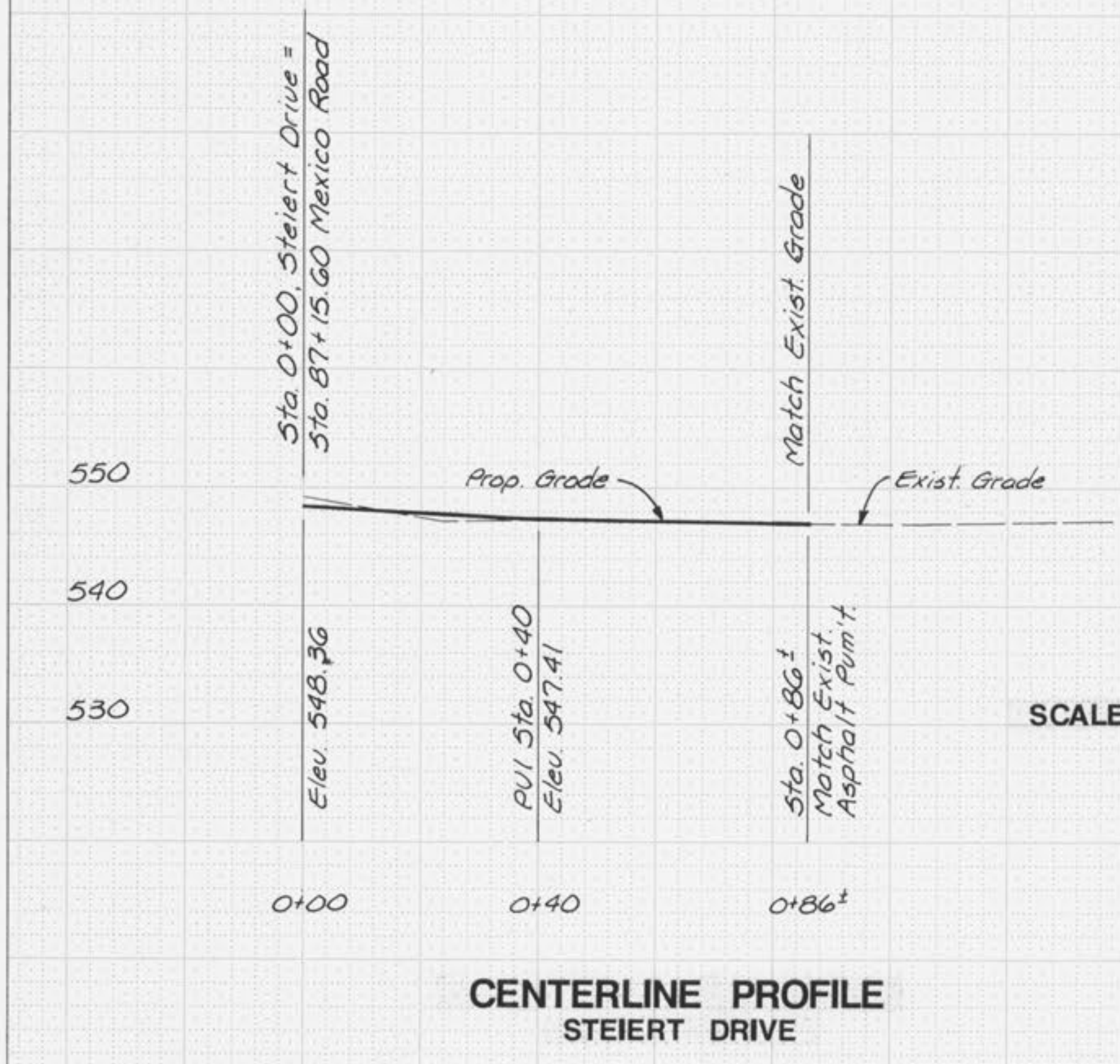
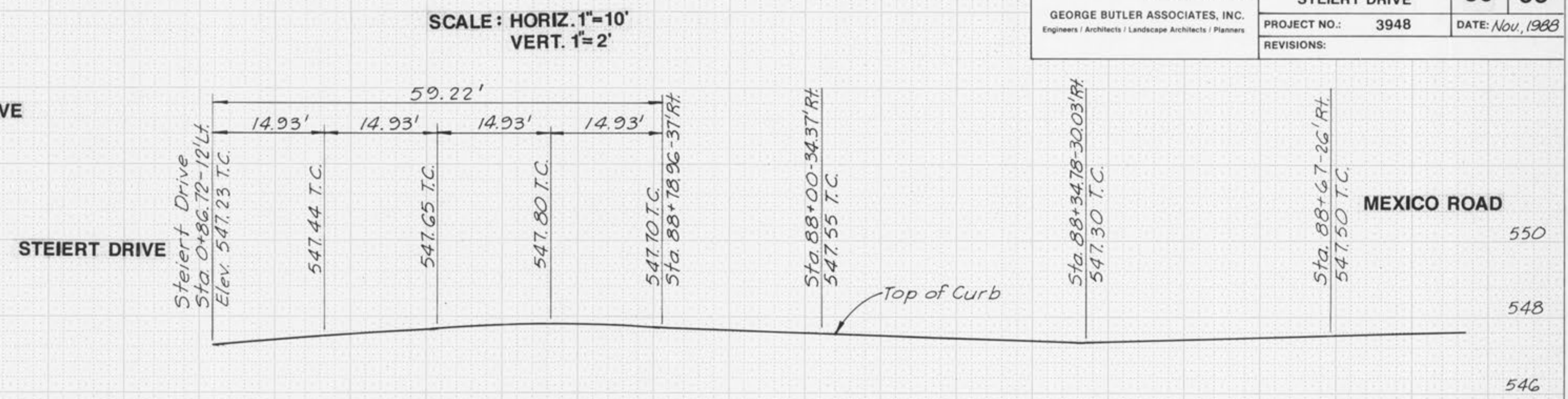
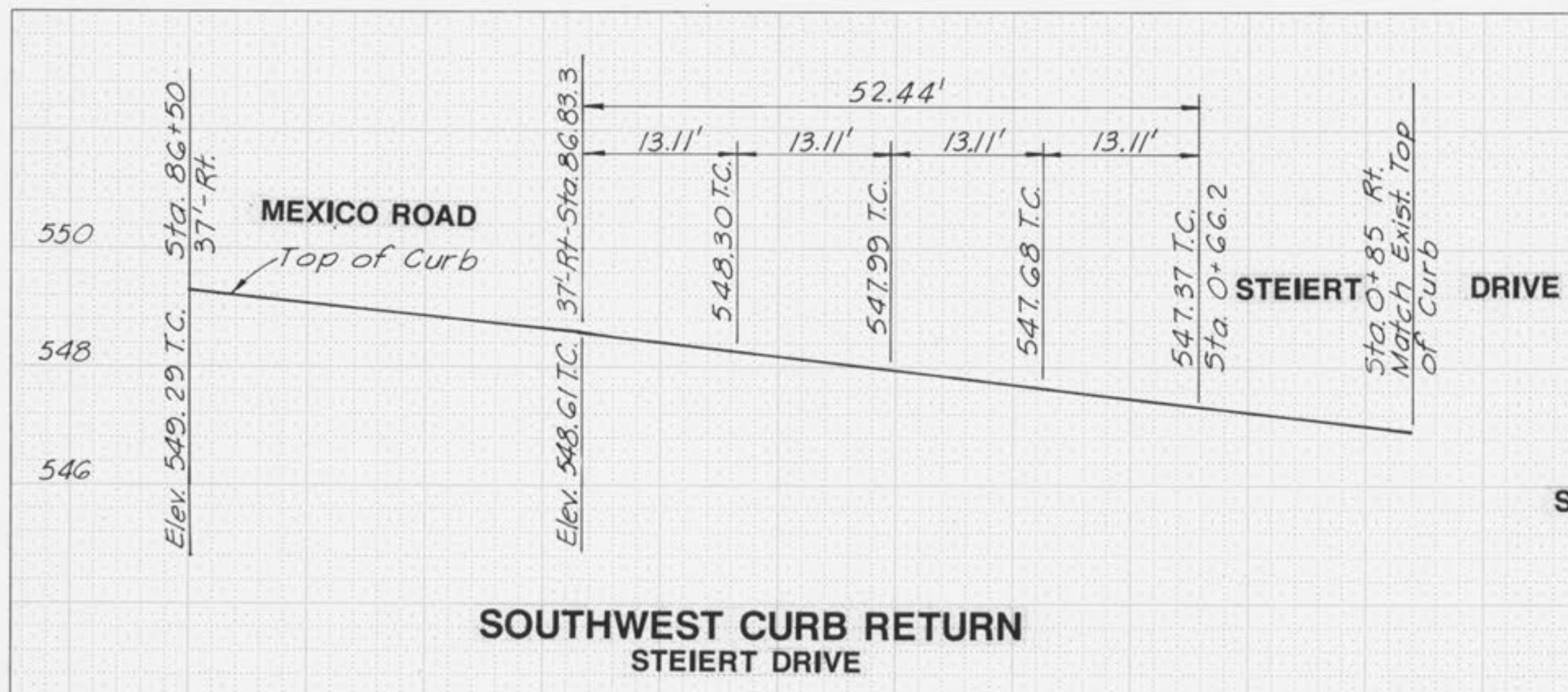
SCALE: HORIZ. 1"=20'
VERT. 1"=10'





GEORGE BUTLER ASSOCIATES, INC.
Engineers / Architects / Landscape Architects / Planners

PROJECT	SHEET NO.	TOTAL SHEETS
MEXICO RD. IMPROVEMENTS STEIERT DRIVE	30	65
PROJECT NO.: 3948	DATE: Nov., 1988	
REVISIONS:		



SCALE: HORIZ. 1"= 20'
VERT. 1"=10'

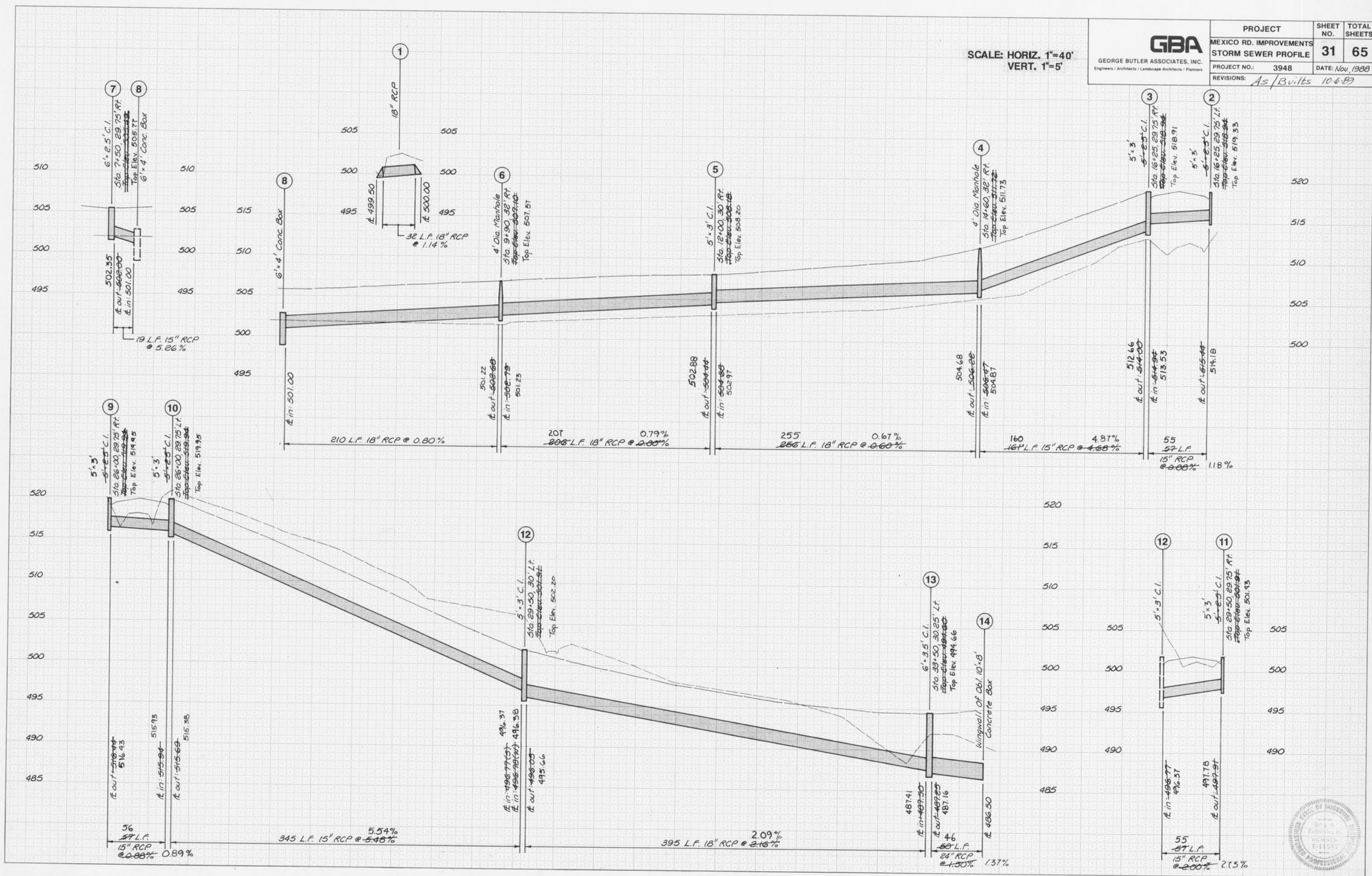


SCALE: HORIZ. 1"=40'
VERT. 1"=5'

GBA

GEORGE BUTLER ASSOCIATES, INC.
Engineers / Architects / Landscape Architects / Planners

PROJECT	SHEET NO.	TOTAL SHEETS
MEXICO RD. IMPROVEMENTS	31	65
STORM SEWER PROFILE		
PROJECT NO.: 3948		DATE: Nov, 1988
REVISIONS: As/Built 10-6-89		

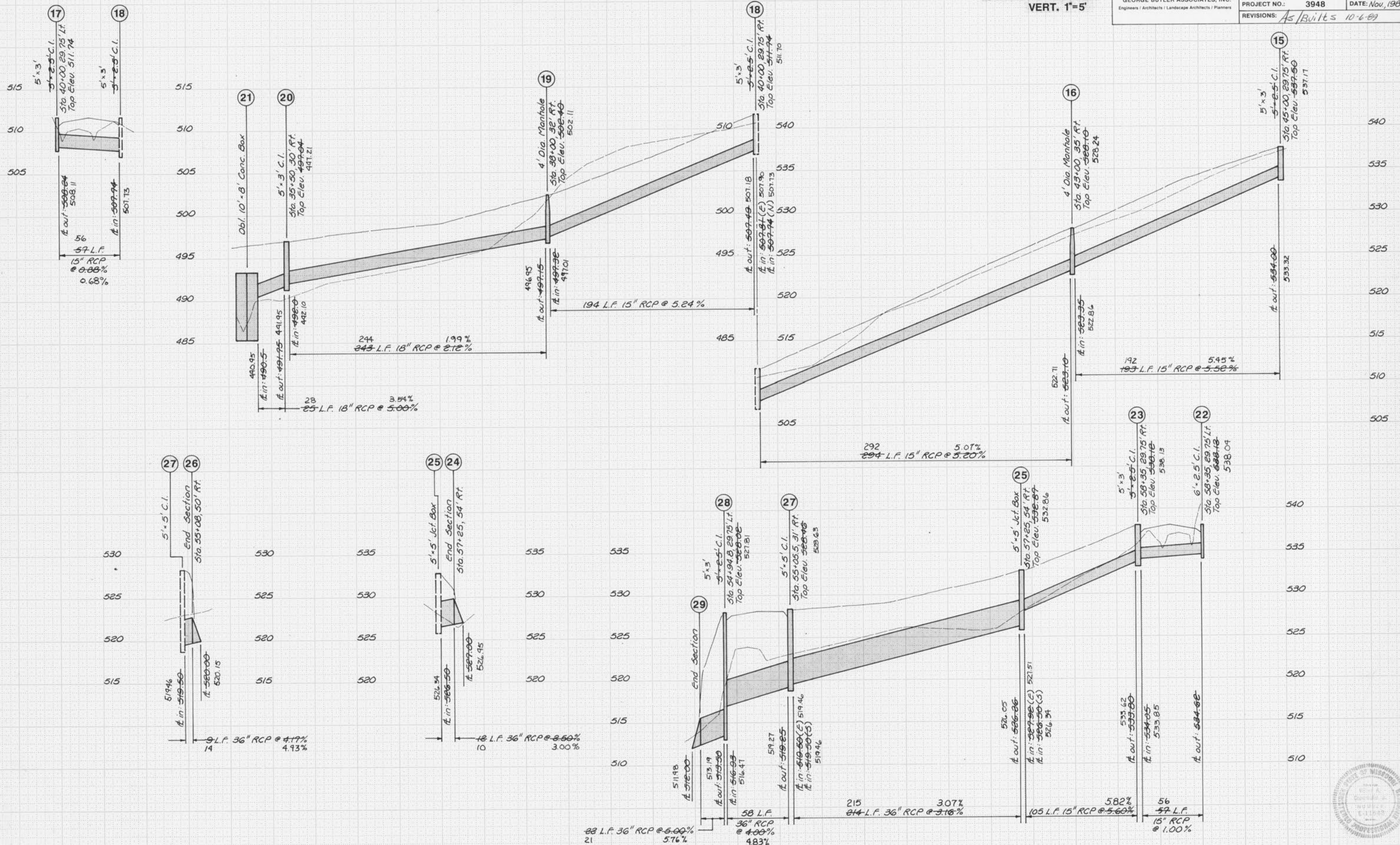


SCALE: HORIZ. 1"=40'
VERT. 1"=5'



GEORGE BUTLER ASSOCIATES, INC.
Engineers / Architects / Landscape Architects / Planners

PROJECT	MEXICO RD. IMPROVEMENTS	SHEET NO.	32	TOTAL SHEETS	65
PROJECT NO.	3948	DATE	Nov, 1968		
REVISIONS:	As/Built 10-6-89				

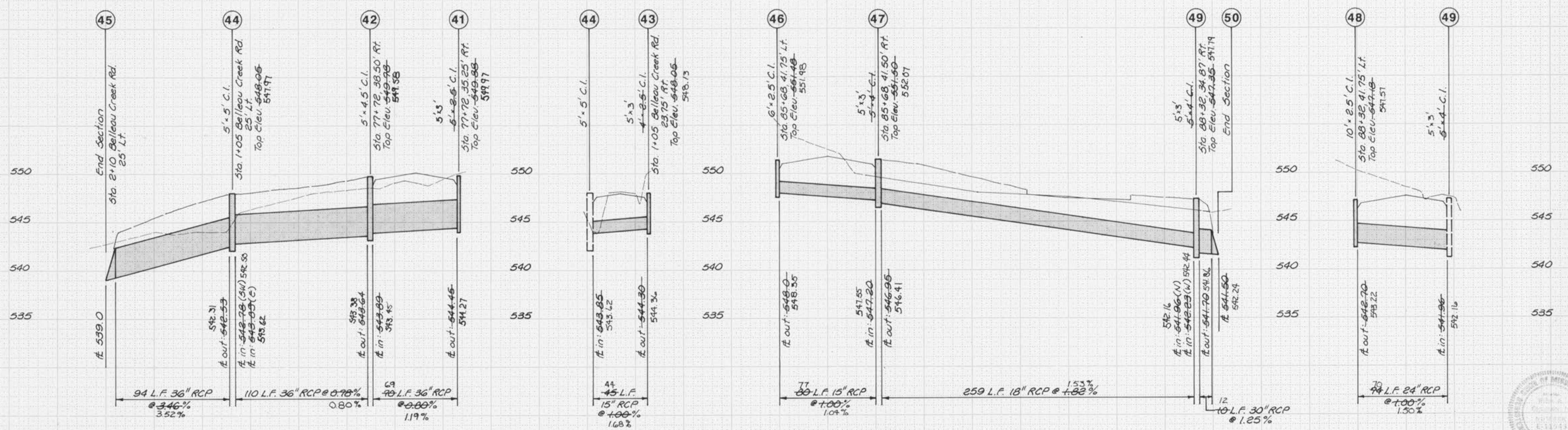
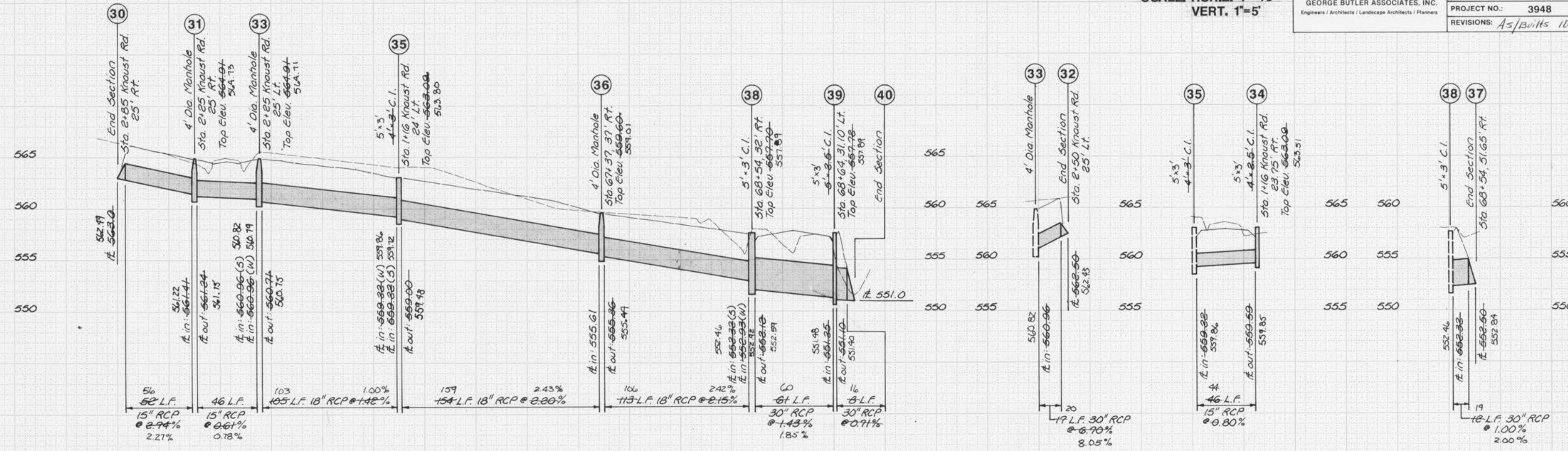




GEORGE BUTLER ASSOCIATES, INC.
Engineers / Architects / Landscape Architects / Planners

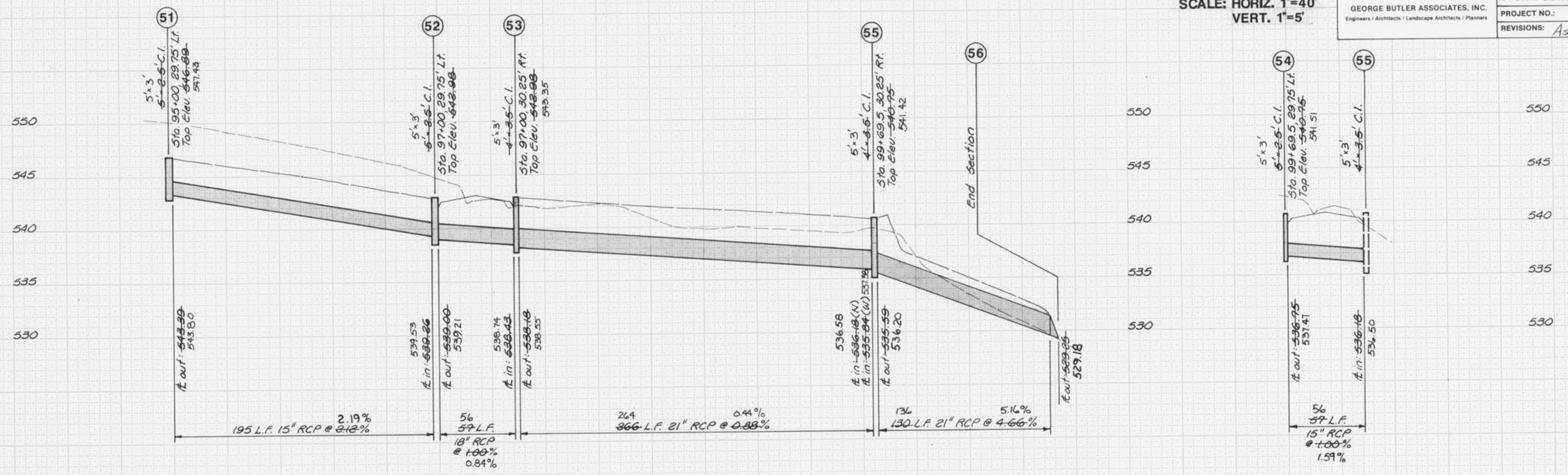
PROJECT	SHEET NO.	TOTAL SHEETS
MEXICO RD. IMPROVEMENTS STORM SEWER PROFILE	33	65
PROJECT NO.: 3948	DATE: Nov. 1988	
REVISIONS: A5/Built 10-6-89		

SCALE: HORIZ. 1"=40'
VERT. 1"=5'



SCALE: HORIZ. 1"=40'
VERT. 1"=5'

GBA GEORGE BUTLER ASSOCIATES, INC. <small>Engineers / Architects / Landscape Architects / Planners</small>	PROJECT	SHEET NO.	TOTAL SHEETS
	MEXICO RD. IMPROVEMENTS	34	65
	STORM SEWER PROFILE	PROJECT NO.: 3948	DATE: Nov, 1988
	REVISIONS: A5-Built 10-6-89		

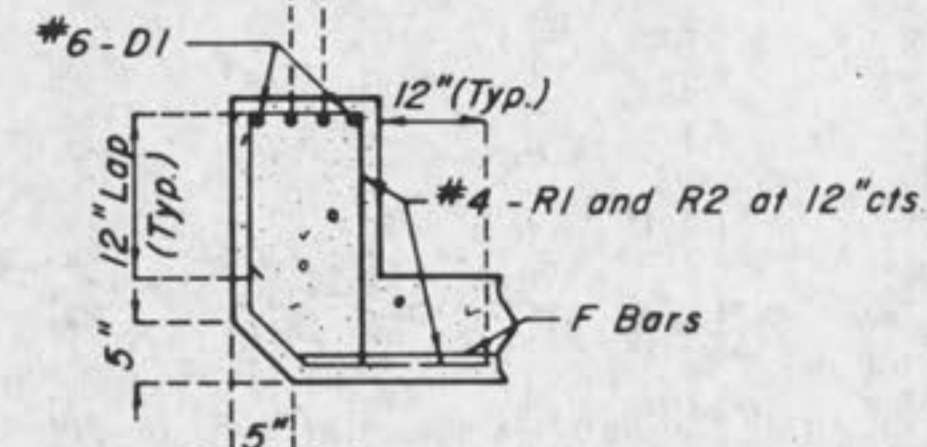


① UPSTREAM
#6 ("S" = 0' thru 13')

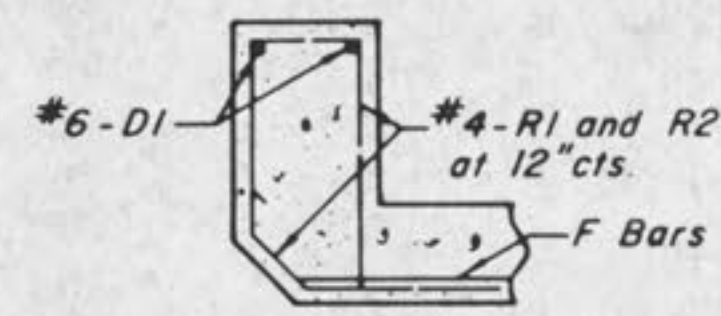
DOWNSTREAM

#7 ("S" x secant skew \angle = over 13')

2-① D2 Centered
Over Center Wall

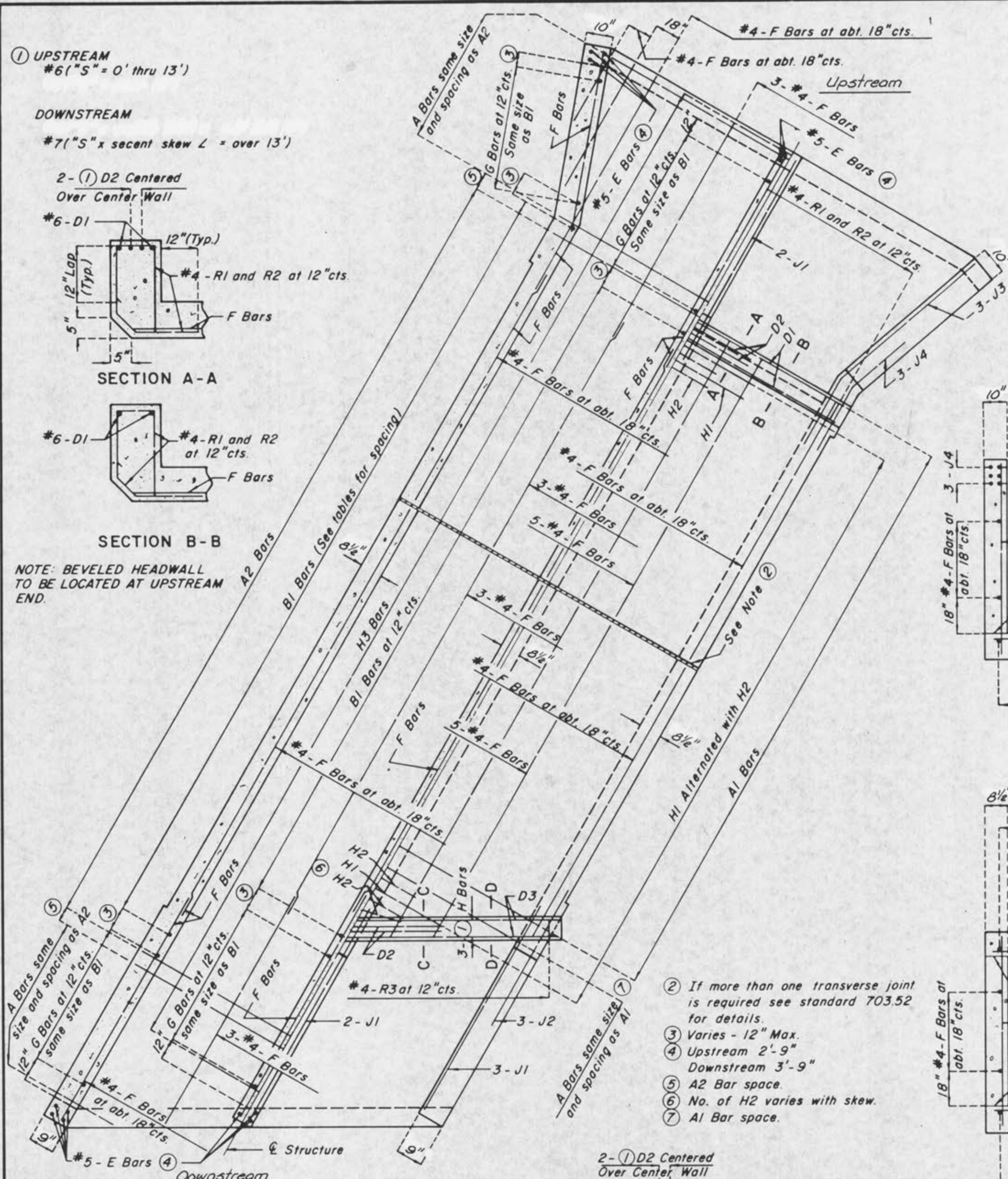


SECTION A-A



SECTION B-B

NOTE: BEVELED HEADWALL
TO BE LOCATED AT UPSTREAM
END.

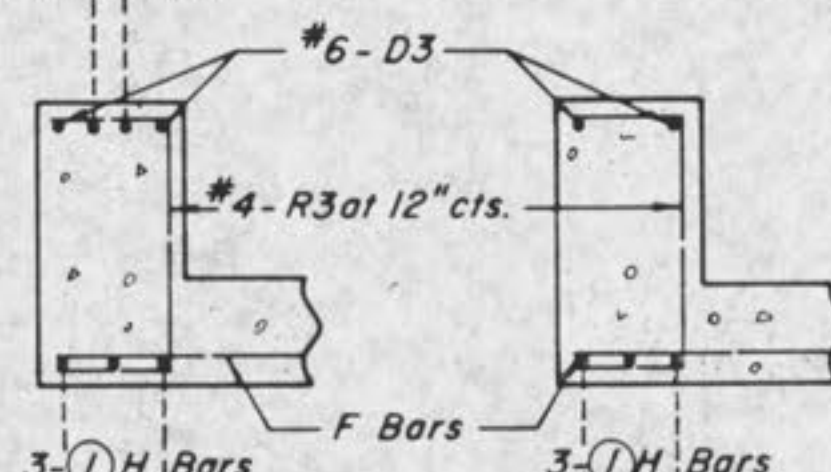


HALF HORIZONTAL SECTION

HALF PLAN

- ② If more than one transverse joint is required see standard 703.52 for details.
- ③ Varies - 12" Max.
- ④ Upstream 2'-9" Downstream 3'-9"
- ⑤ A2 Bar space.
- ⑥ No. of H2 varies with skew.
- ⑦ A1 Bar space.

2-① D2 Centered
Over Center Wall

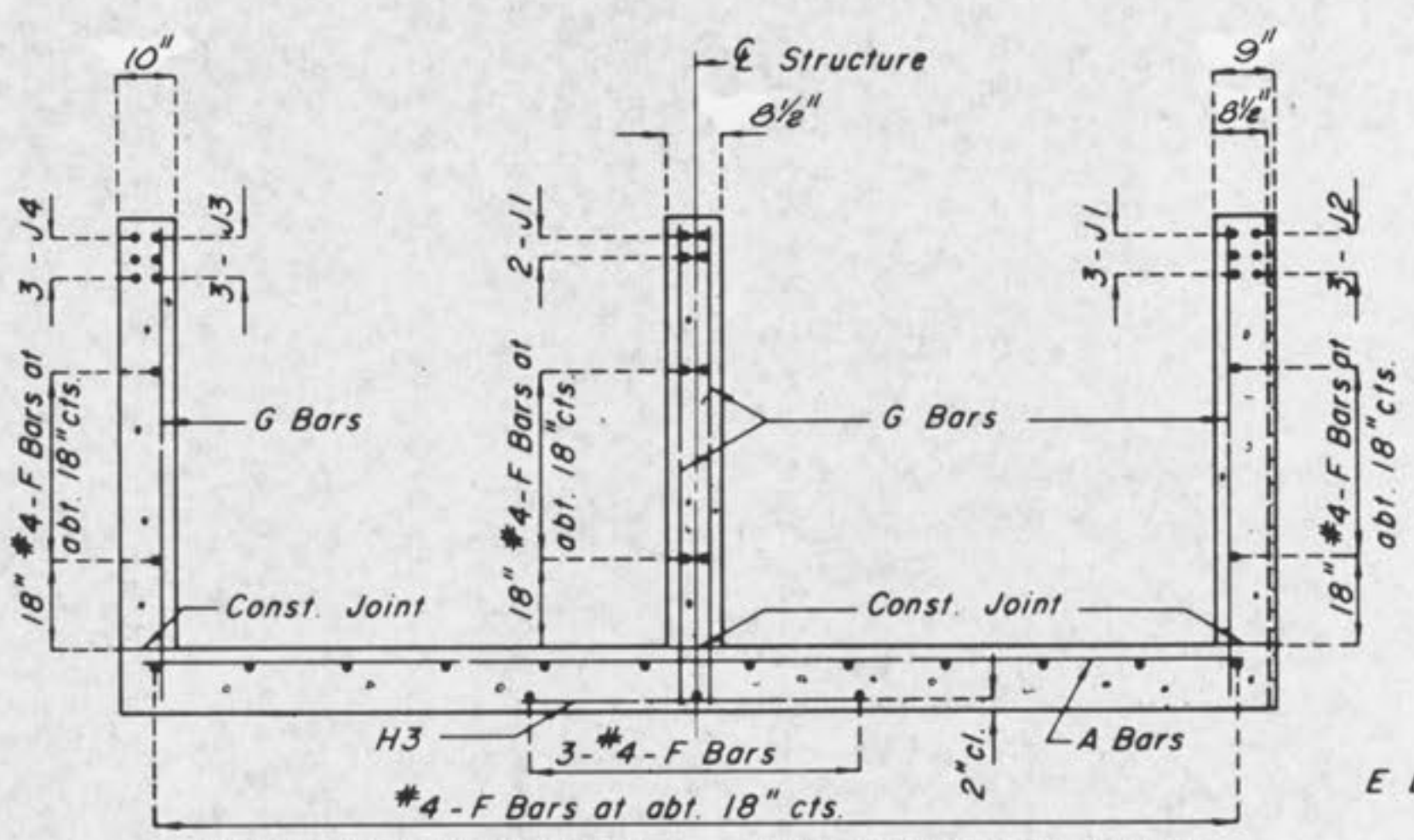


SECTION C-C

SECTION D-D

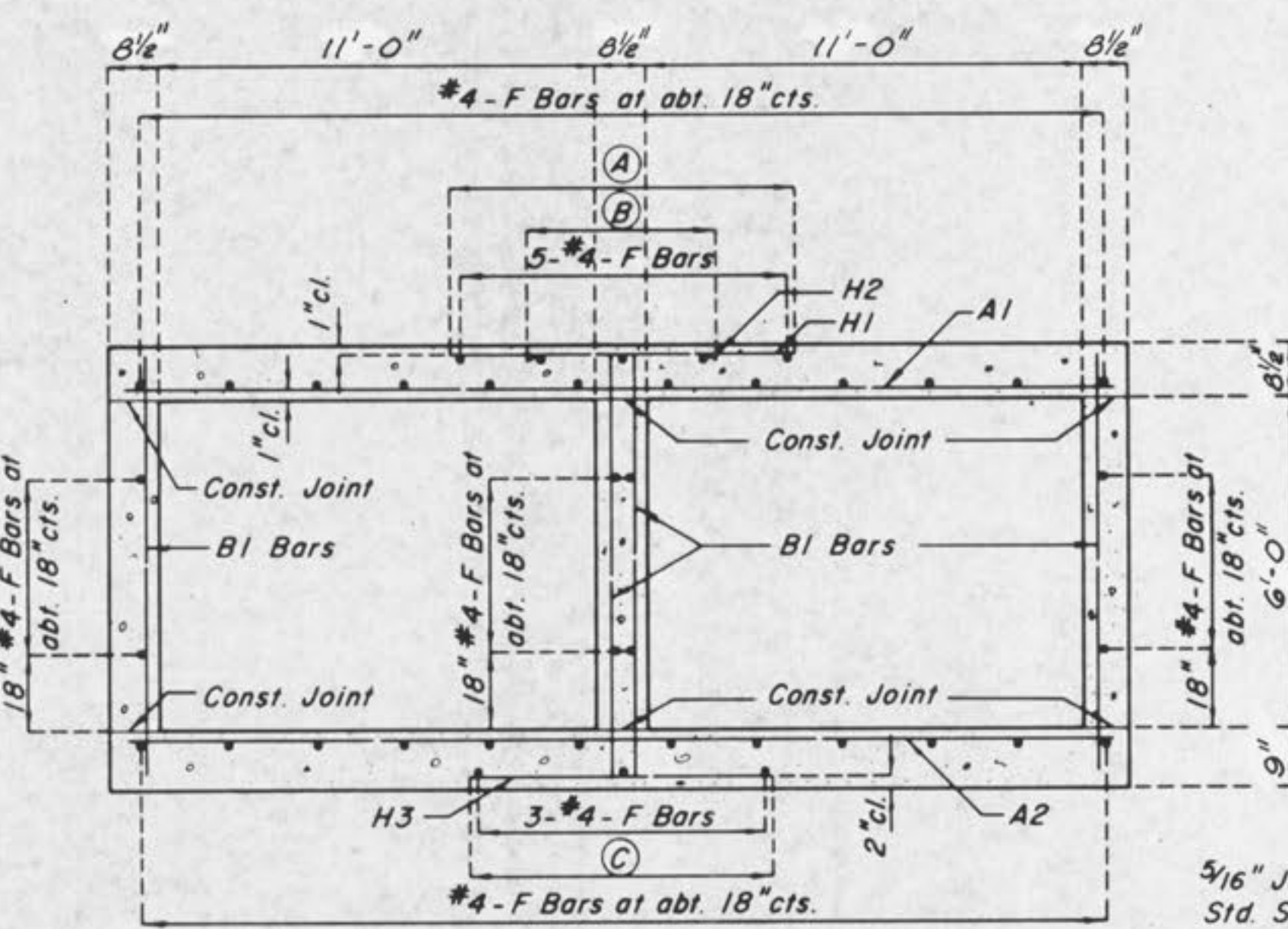
D2 Length Each Side of \bar{C} Center Wall
Upstream: 48 Bar Dia. or $\frac{1}{4}$ 11'-0"
Downstream: 48 Bar Dia. or $\frac{1}{4}$ 11'-0"
Secant Skew Angle.
(Use Greater.)

LENGTH OF H BARS							
HI (A) = 2KL NOTE: H BARS TO BE CENTERED ON CENTER WALL							
H2 (B) = KL							
H3 (C) = 50L							
L = 11'-0" + 8 1/2" K = COEFFICIENT SHOWN BELOW							
FOR DESIGN FILL SEE DATA SHEET	"S"						
	8'	9'	10'	11'	12'	13'	14' & OVER
12"	.63	.59	.54	.51	.48	.46	.43
13" THRU 18"	.55	.52	.48	.46	.43	.42	.40
19" THRU 2'-0"	.52	.49	.45	.44	.42	.41	.39
2'-1" THRU 2'-11"	.47	.45	.42	.41	.40	.39	.37
3'-0" THRU 3'-11"	.42	.41	.40	.39	.37	.37	.36
4'-0" THRU 5'-0"	.39	.39	.38	.37	.36	.37	.37
5'-1" & OVER	.42	.41	.39	.39	.38	.38	.38

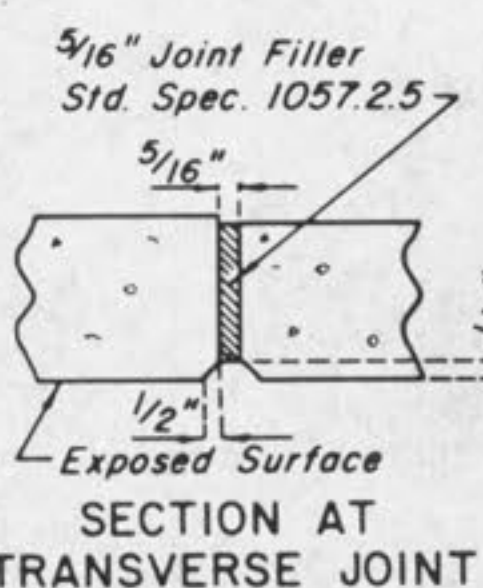


HALF SECTION THRU UPSTREAM WING

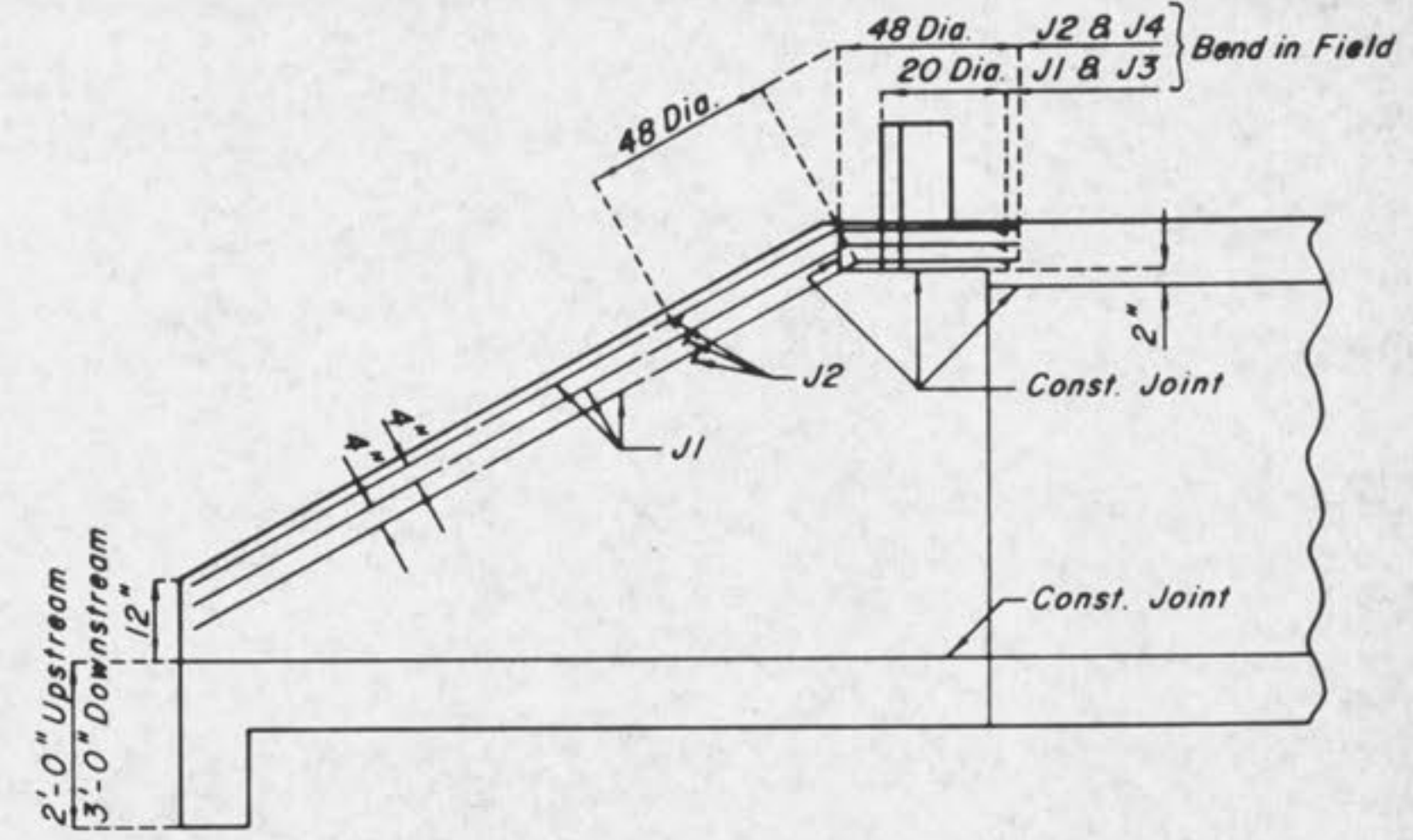
HALF SECTION THRU DOWNSTREAM WING



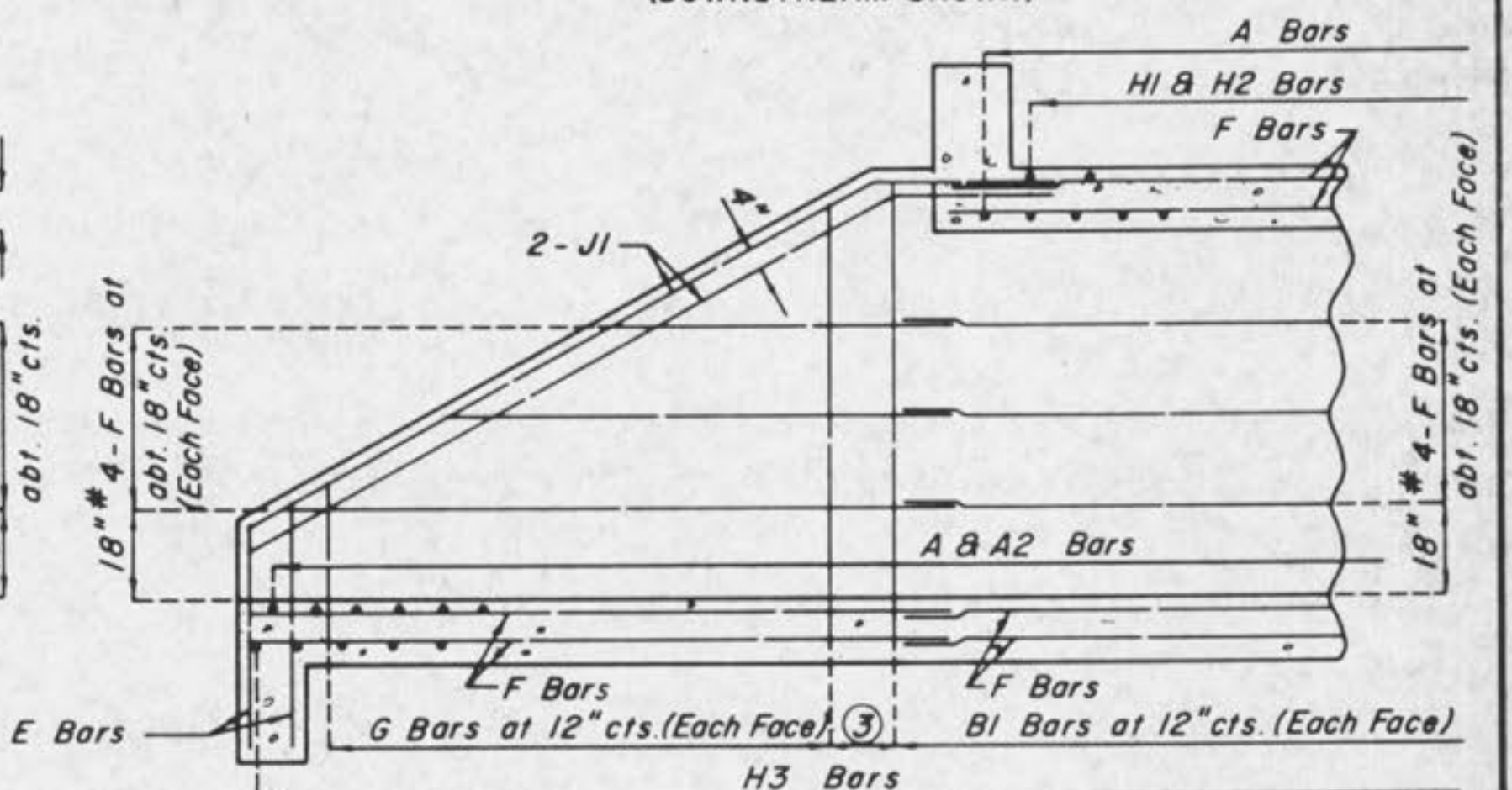
SECTION THRU BOX



SECTION AT TRANSVERSE JOINT



ELEVATION OF EXTERIOR WING (SHOWING J BARS) (DOWNSTREAM SHOWN)



SECTION NEAR INTERIOR WING (DOWNSTREAM SHOWN)

GENERAL NOTES:
Bar Sizes:
A1 - #6 @ 5 1/2" cts. H1 & H2 - #6 @ 13" cts.
A2 - #4 @ 6" cts. H3 - #6 @ 6 1/2" cts.
B1 - #5 @ 12" cts. J - #5 Bars

LAP ALL LONGITUDINAL BARS A MINIMUM OF 12" AT SPLICES.

For Dimensions & Positioning See Sheet 38

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1/2" UNLESS OTHERWISE SHOWN.

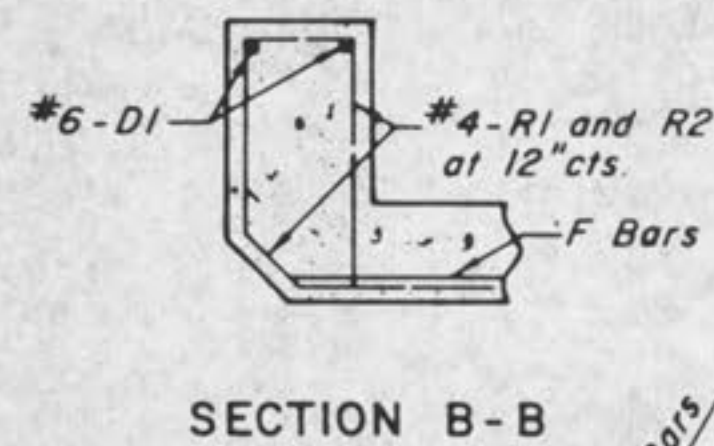
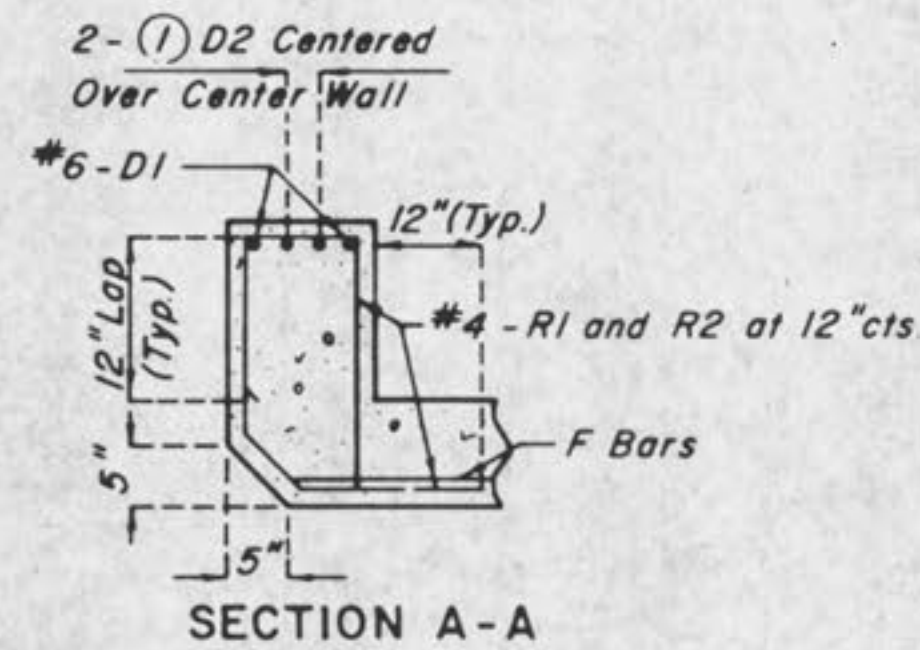
JOINT FILLER SHALL BE SECURELY STITCHED TO ONE FACE OF THE CONCRETE WITH NO. 10 GAGE COPPER WIRE OR NO. 12 GAGE SOFT DRAWN GALVANIZED STEEL WIRE.

Std. Sheet Furnished By M.H.T.C.

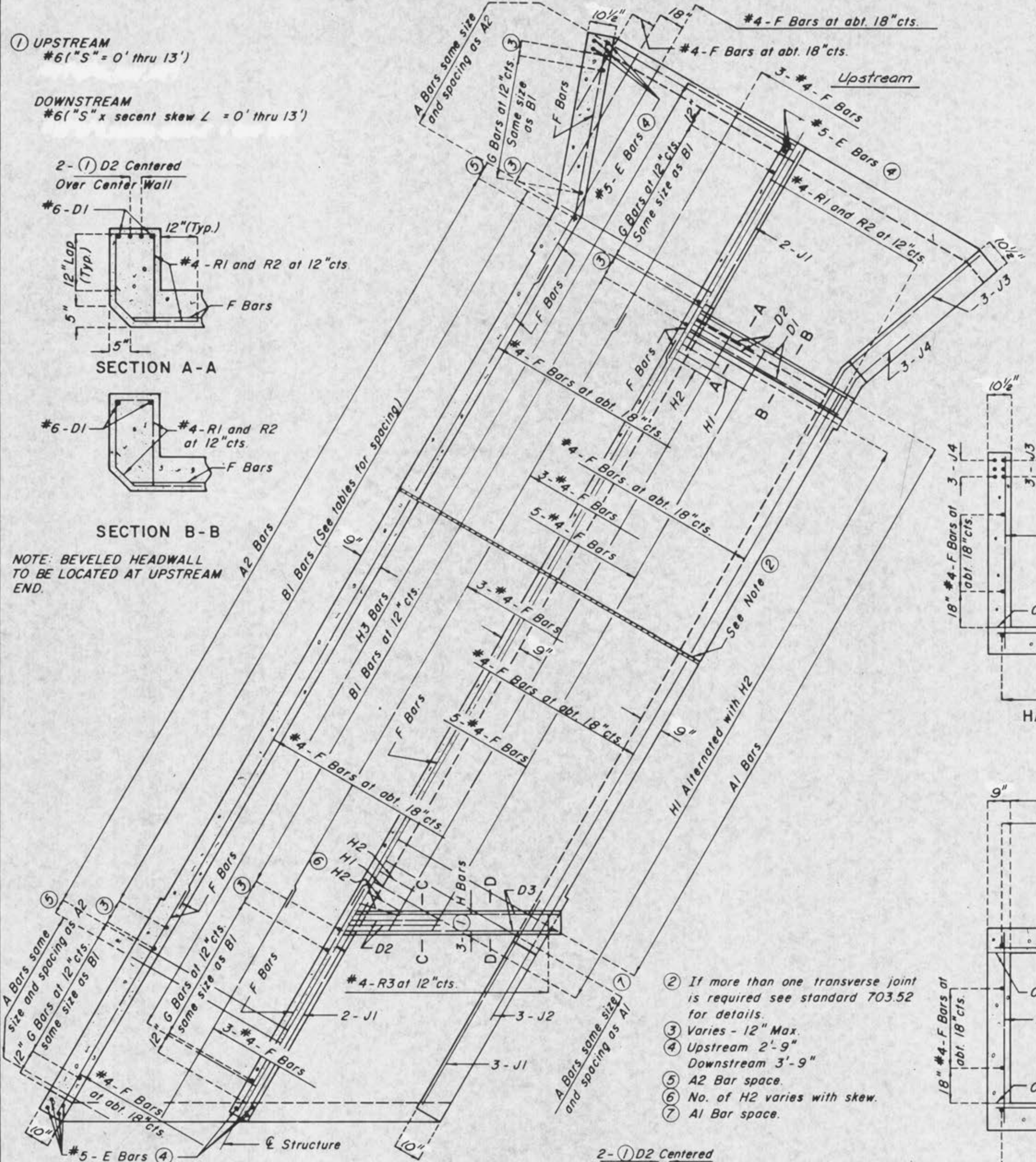
GBA GEORGE BUTLER ASSOCIATES, INC. CONSULTING ENGINEERS/ARCHITECTS LANDSCAPE ARCHITECTS/PLANNERS	OFFICES: ONE FIVE RIDGE PLAZA SUITE 200 807 MELROSE DRIVE LENEXA, KANSAS / 66242 COLONIAL PLAZA SUITE 4 114 E. ELM O'FALLON, MISSOURI / 63366	
	THE ENTERPRISE BUILDING 636 ENTERPRISE ROAD KANSAS CITY, MISSOURI / 64108	
MEXICO ROAD IMPROVEMENTS HIGHWAY "K" TO SALT LICK ROAD CONCRETE BOX CULVERT @ STA. 33 + 65 CITY OF O'FALLON, MISSOURI		
DESIGNED BY: <i>REH</i> DRAWN BY: <i>KF</i> CHECKED BY: <i>WAC</i>	JOB NO. 3948 DATE Nov. 1988 SCALE None SHEET NO. 36 OF 65	

① UPSTREAM
#6("S" = 0' thru 13')

DOWNSTREAM
#6("S" x secant skew L = 0' thru 13')

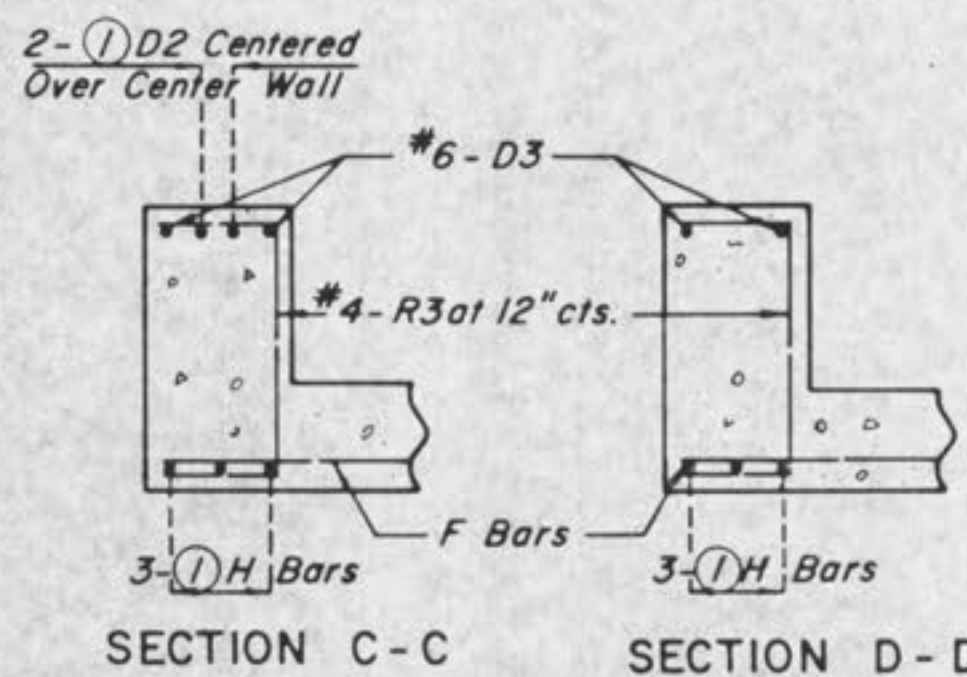


NOTE: BEVELED HEADWALL TO BE LOCATED AT UPSTREAM END.



HALF HORIZONTAL SECTION

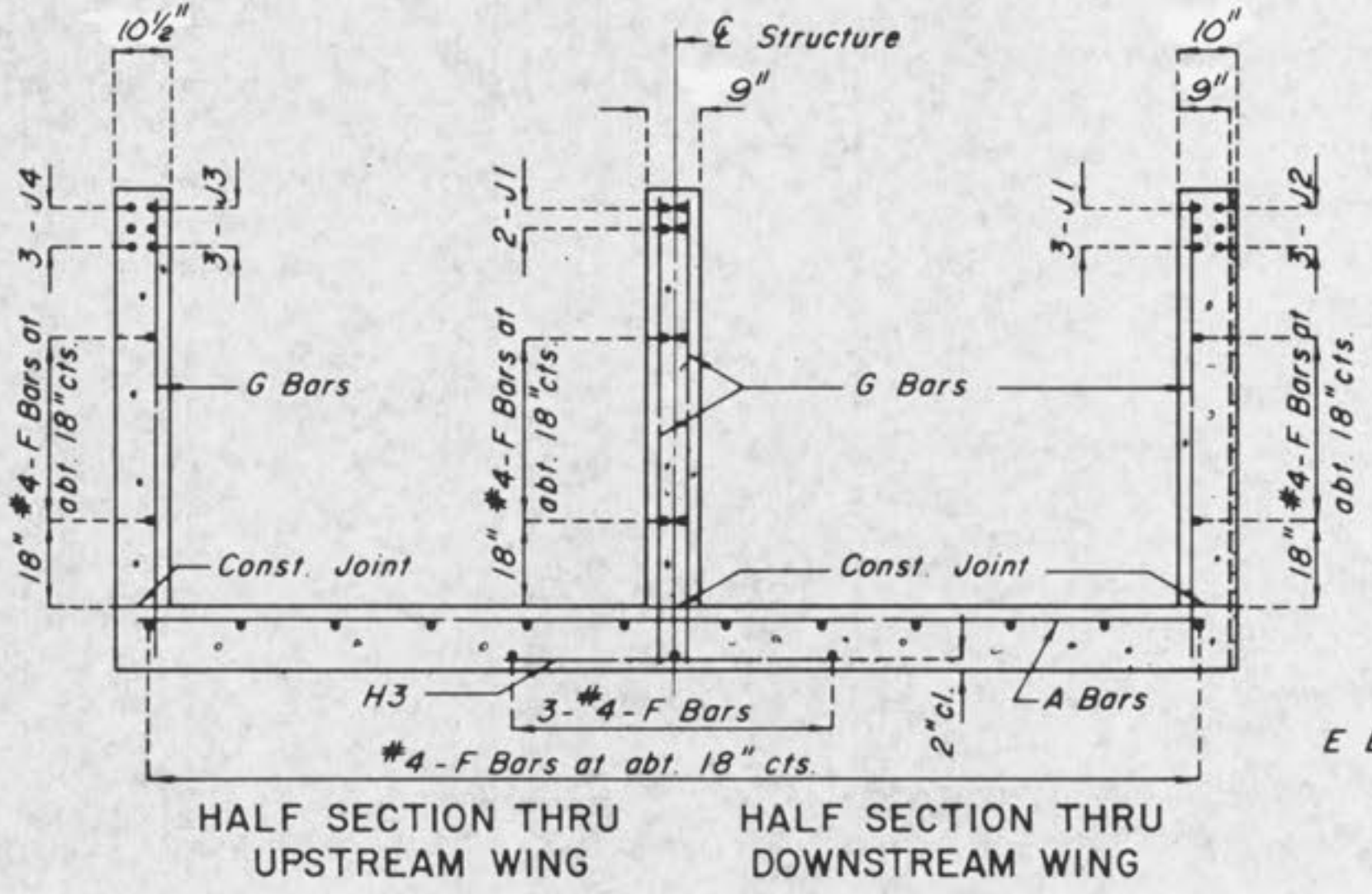
D2 Length Each Side of Center Wall
Upstream: 48 Bar Dia. or 1/4 10'-0"
Downstream: 48 Bar Dia. or 1/4 10'-0"
Secant Skew Angle.
(Use Greater)



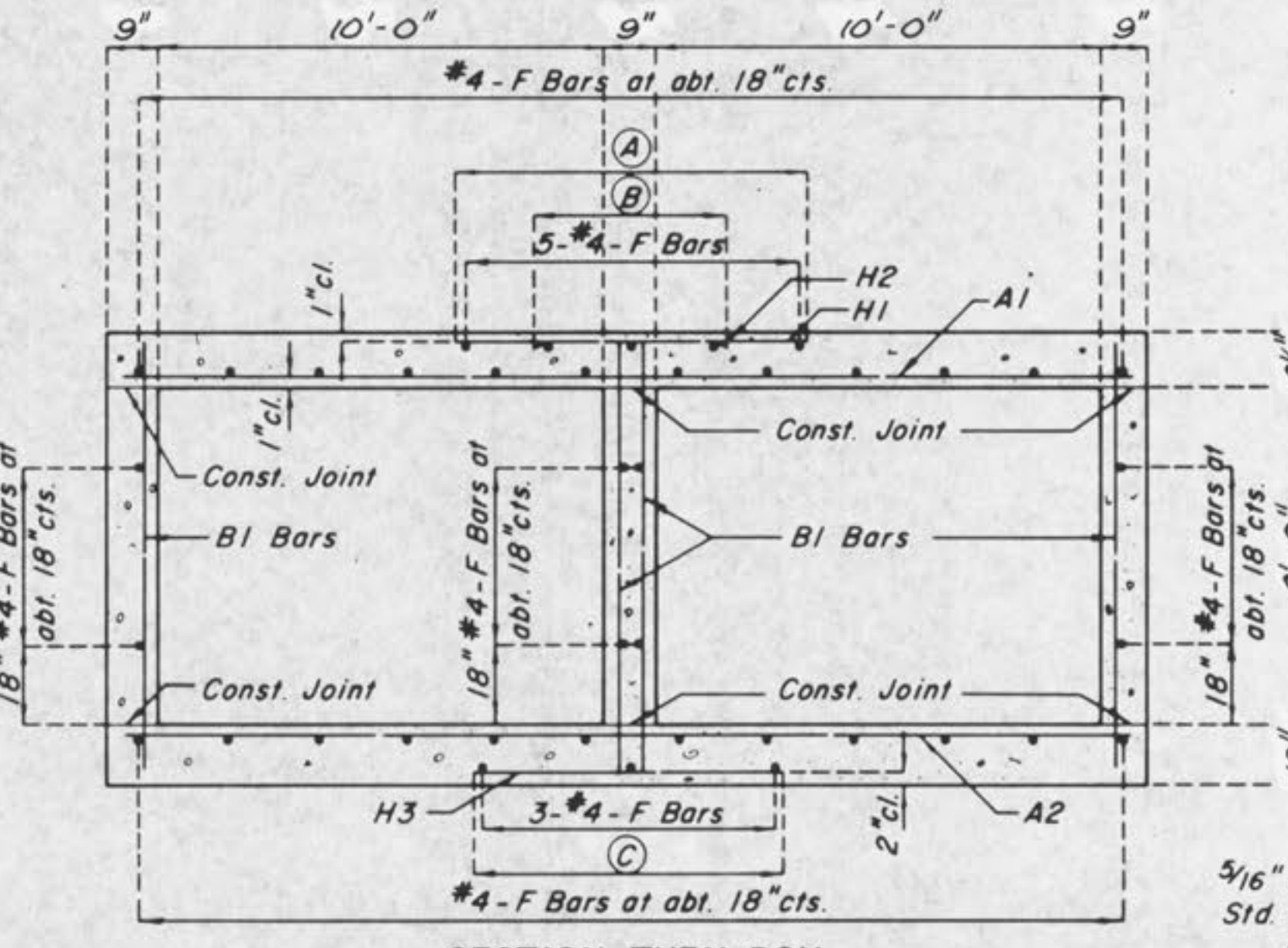
SECTION C-C SECTION D-D

- ② If more than one transverse joint is required see standard 703.52 for details.
- ③ Varies - 12" Max.
- ④ Upstream 2'-9" Downstream 3'-9"
- ⑤ A2 Bar space.
- ⑥ No. of H2 varies with skew.
- ⑦ A1 Bar space.

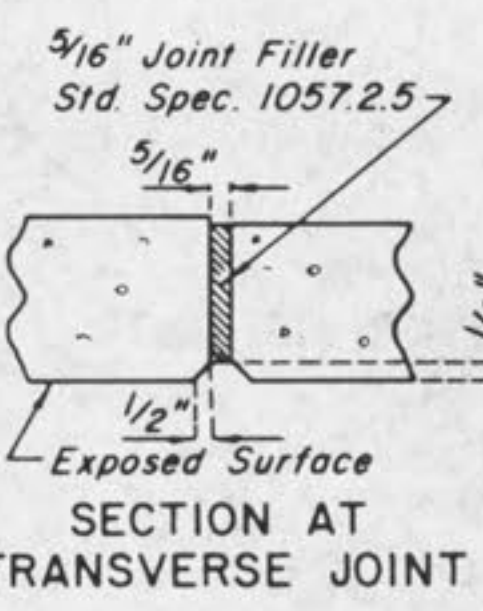
LENGTH OF H BARS							
H1 (A) = 2KL	NOTE: H BARS TO BE CENTERED ON CENTER WALL						
H2 (B) = KL							
H3 (C) = 50L							
L = 10'-0" + 9"	K = COEFFICIENT SHOWN BELOW						
FOR DESIGN FILL SEE DATA SHEET	"S"						
	8'	9'	10'	11'	12'	13'	14' & OVER
12"	.63	.59	.54	.51	.48	.46	.43
13" THRU 18"	.55	.52	.48	.46	.43	.42	.40
19" THRU 2'-0"	.52	.49	.45	.44	.42	.41	.39
2'-1" THRU 2'-11"	.47	.45	.42	.41	.40	.39	.37
3'-0" THRU 3'-11"	.42	.41	.40	.39	.37	.37	.36
4'-0" THRU 5'-0"	.39	.39	.38	.37	.36	.37	.37
5'-1" & OVER	.42	.41	.39	.39	.38	.38	.38



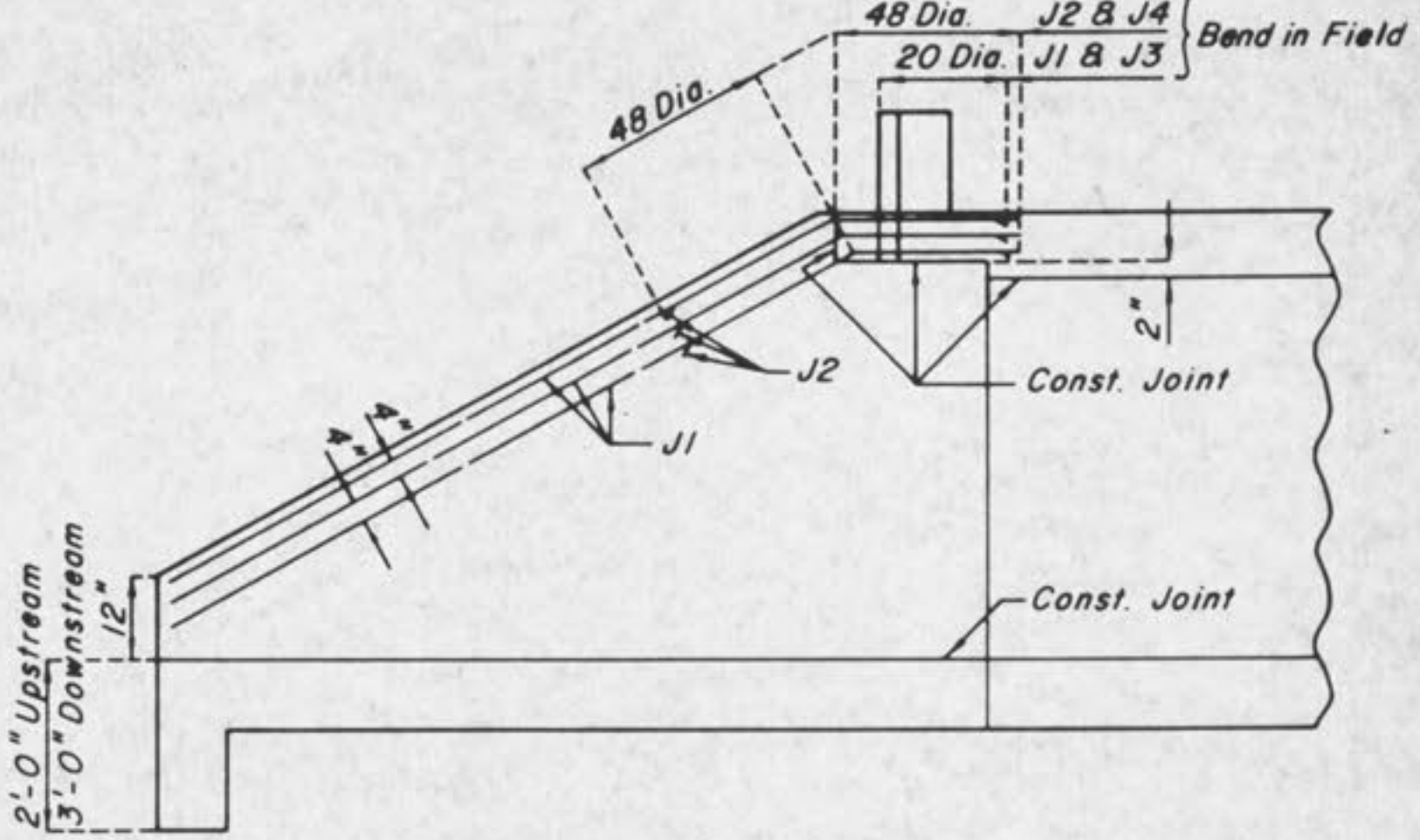
HALF SECTION THRU UPSTREAM WING HALF SECTION THRU DOWNSTREAM WING



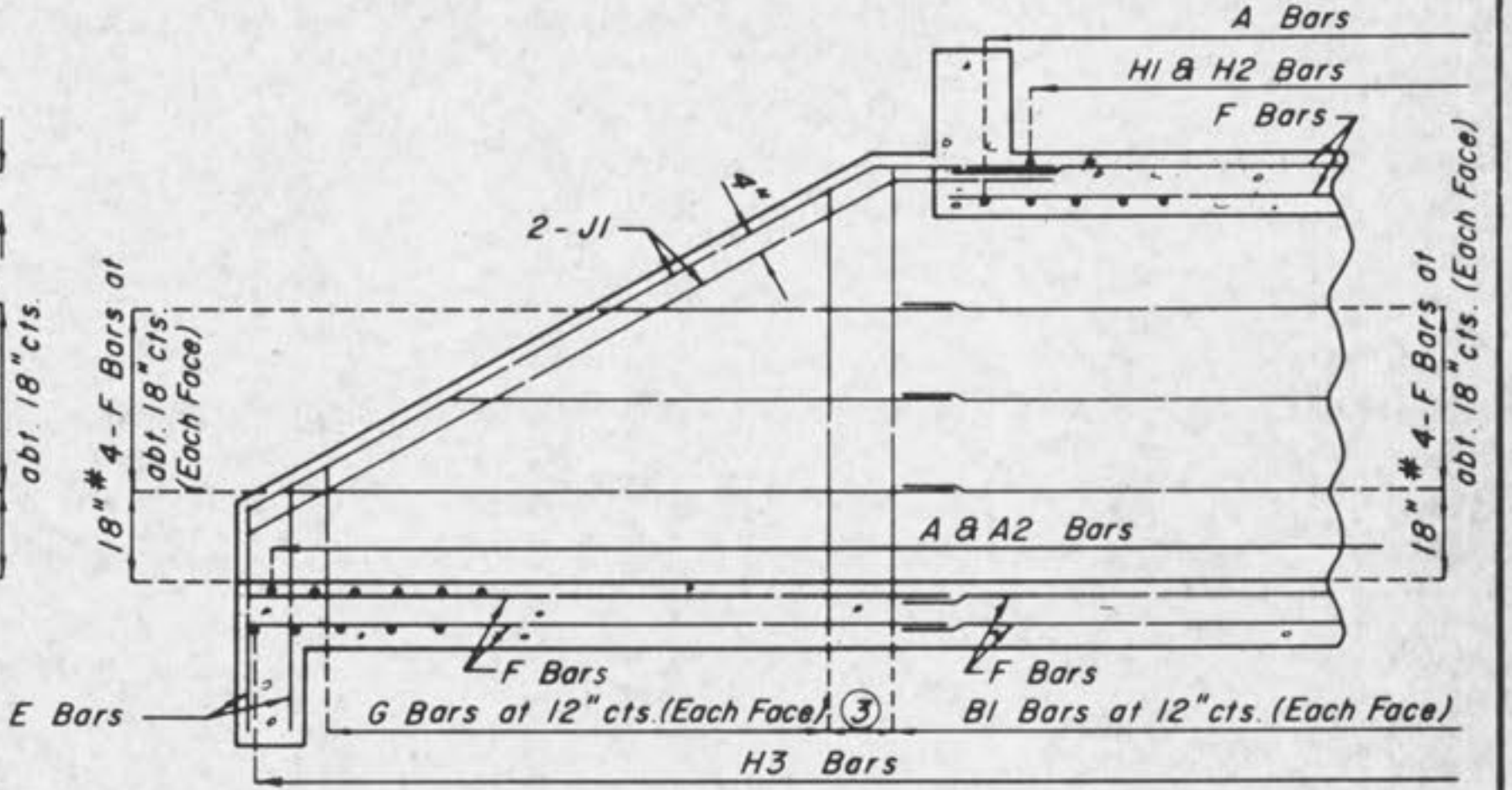
SECTION THRU BOX



SECTION AT TRANSVERSE JOINT



ELEVATION OF EXTERIOR WING (SHOWING J BARS) (DOWNSTREAM SHOWN)



SECTION NEAR INTERIOR WING (DOWNSTREAM SHOWN)

GENERAL NOTES:

Bar Sizes
A1 - #6 @ 5 1/2" cts. H1 & H2 - #6 @ 12" cts.
A2 - #5 @ 7" cts. H3 - #6 @ 5 1/2" cts.
B1 - #5 @ 12" cts. J - #5 Bars

LAP ALL LONGITUDINAL BARS A MINIMUM OF 12" AT SPLICES.

For Dimensions & Positioning See Sheet 3B

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1 1/2" UNLESS OTHERWISE SHOWN.

JOINT FILLER SHALL BE SECURELY STITCHED TO ONE FACE OF THE CONCRETE WITH NO. 10 GAGE COPPER WIRE OR NO. 12 GAGE SOFT DRAWN GALVANIZED STEEL WIRE.

std. Sheet Furnished By M.H.T.C.

GBA
GEORGE BUTLER ASSOCIATES, INC.
CONSULTING ENGINEERS/ARCHITECTS
LANDSCAPE ARCHITECTS/PLANNERS

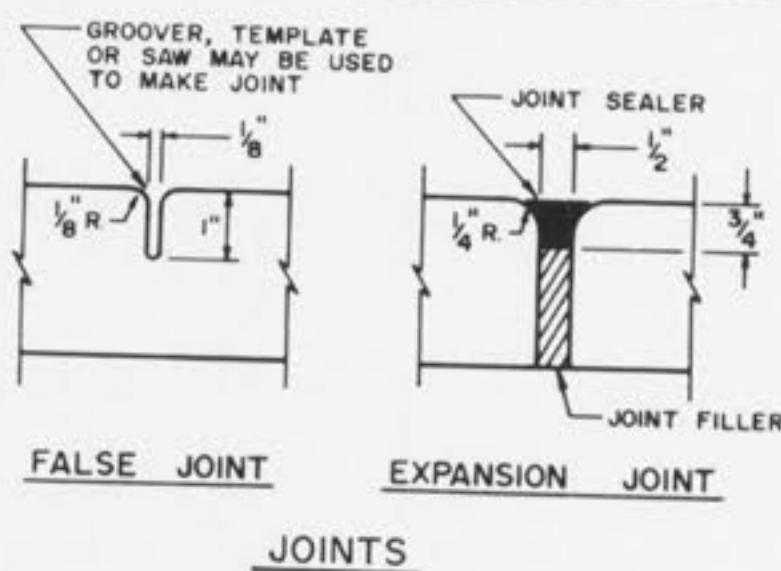
OFFICES:
ONE PINE RIDGE PLAZA
SUITE 202
807 MELROSE DRIVE
LENEXA, KANSAS 66242
100 CITY CENTER SQUARE
SUITE 4
100 MAIN
KANSAS CITY, MISSOURI 64101

THE ENTERPRISE BUILDING
8000 ENTERPRISE ROAD
KANSAS CITY, MISSOURI 64114
COLONIAL PLAZA
SUITE 4
114 E. W. M.
O'FALLON, MISSOURI 63368

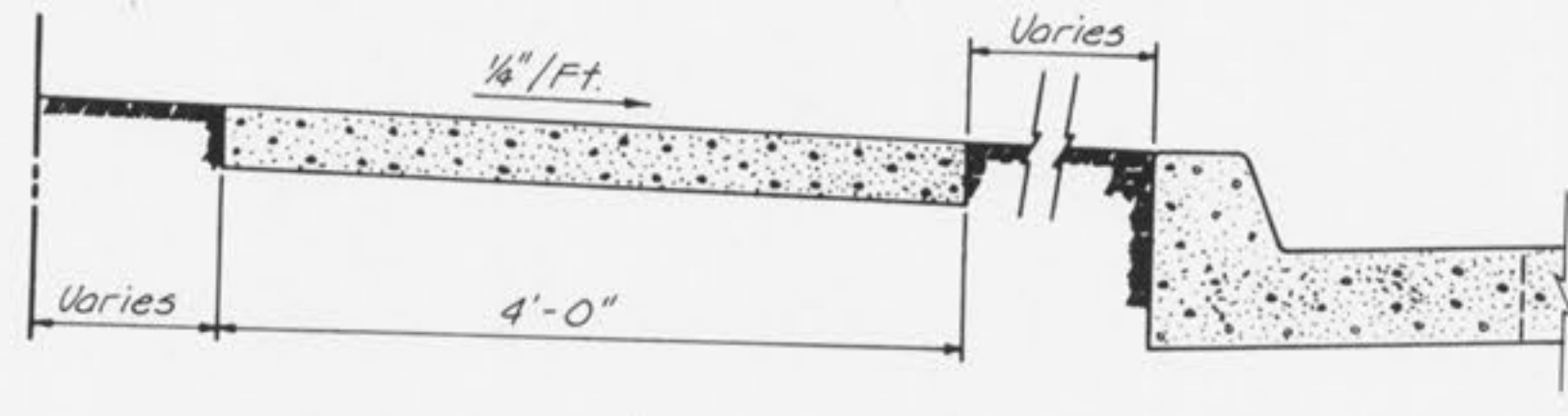
MEXICO ROAD IMPROVEMENTS
HIGHWAY "K" TO SALT LICK ROAD
CONCRETE BOX CULVERT @ STA. 34 + 98
CITY OF O'FALLON, MISSOURI

DESIGNED BY: REH DRAWN BY: KP CHECKED BY: WAC

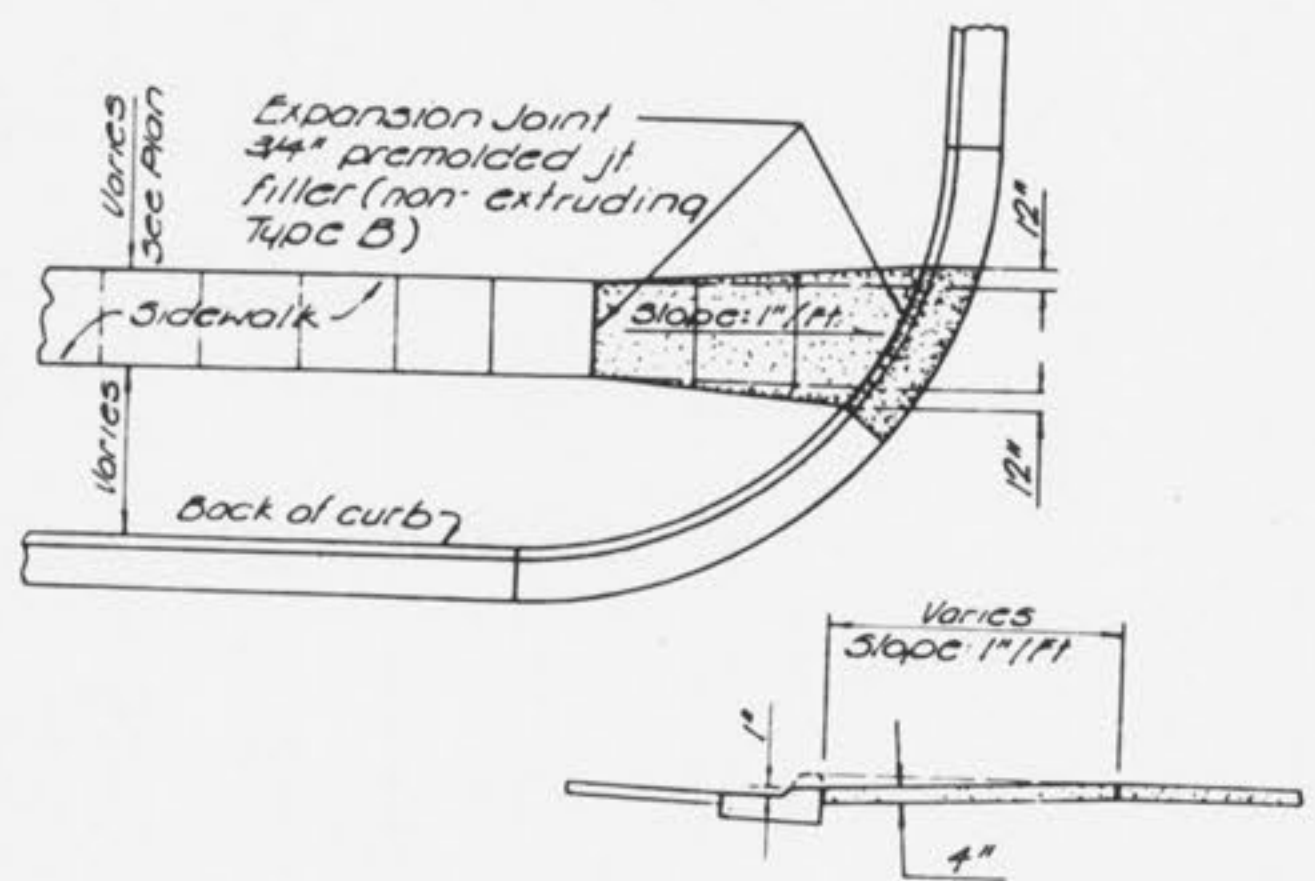
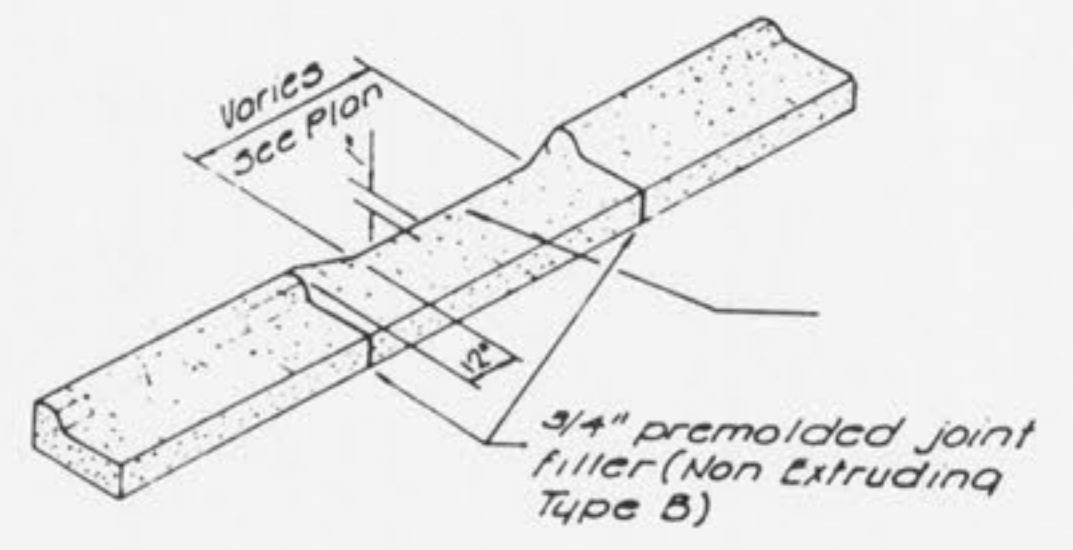
JOB NO: 3948
DATE: Nov, 1988
SCALE: None
SHEET NO: 37 OF 65



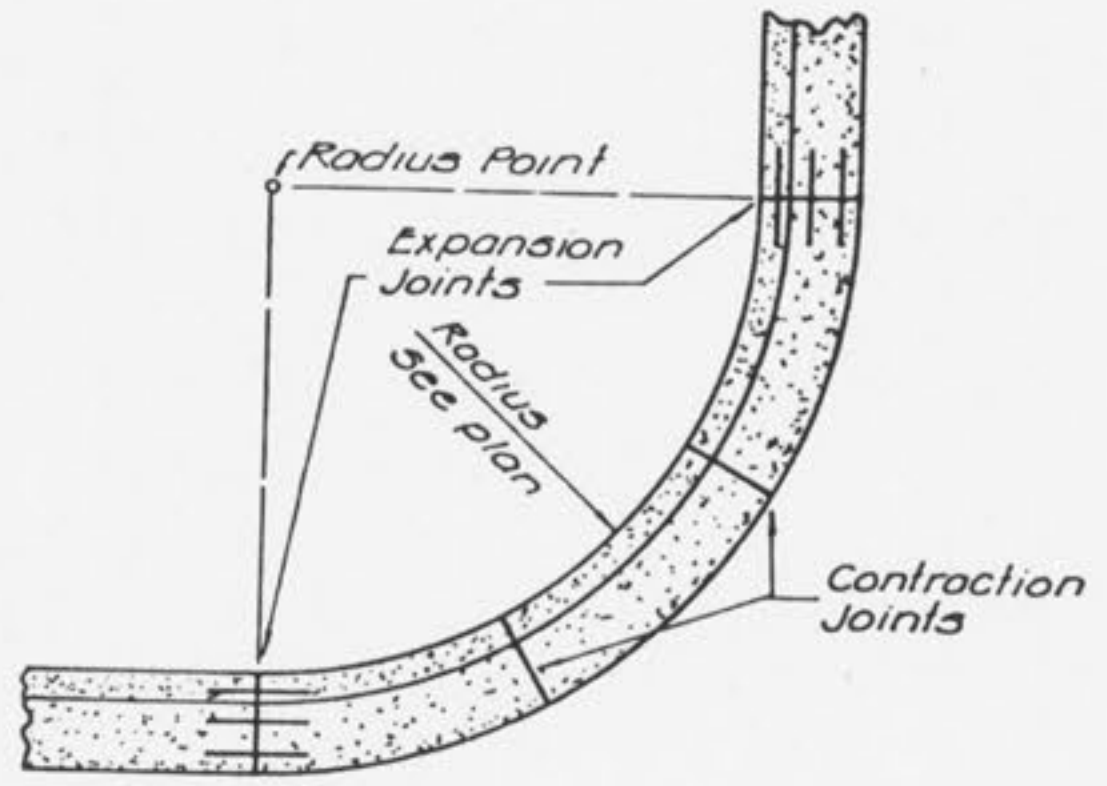
JOINTS



SIDEWALK DETAIL



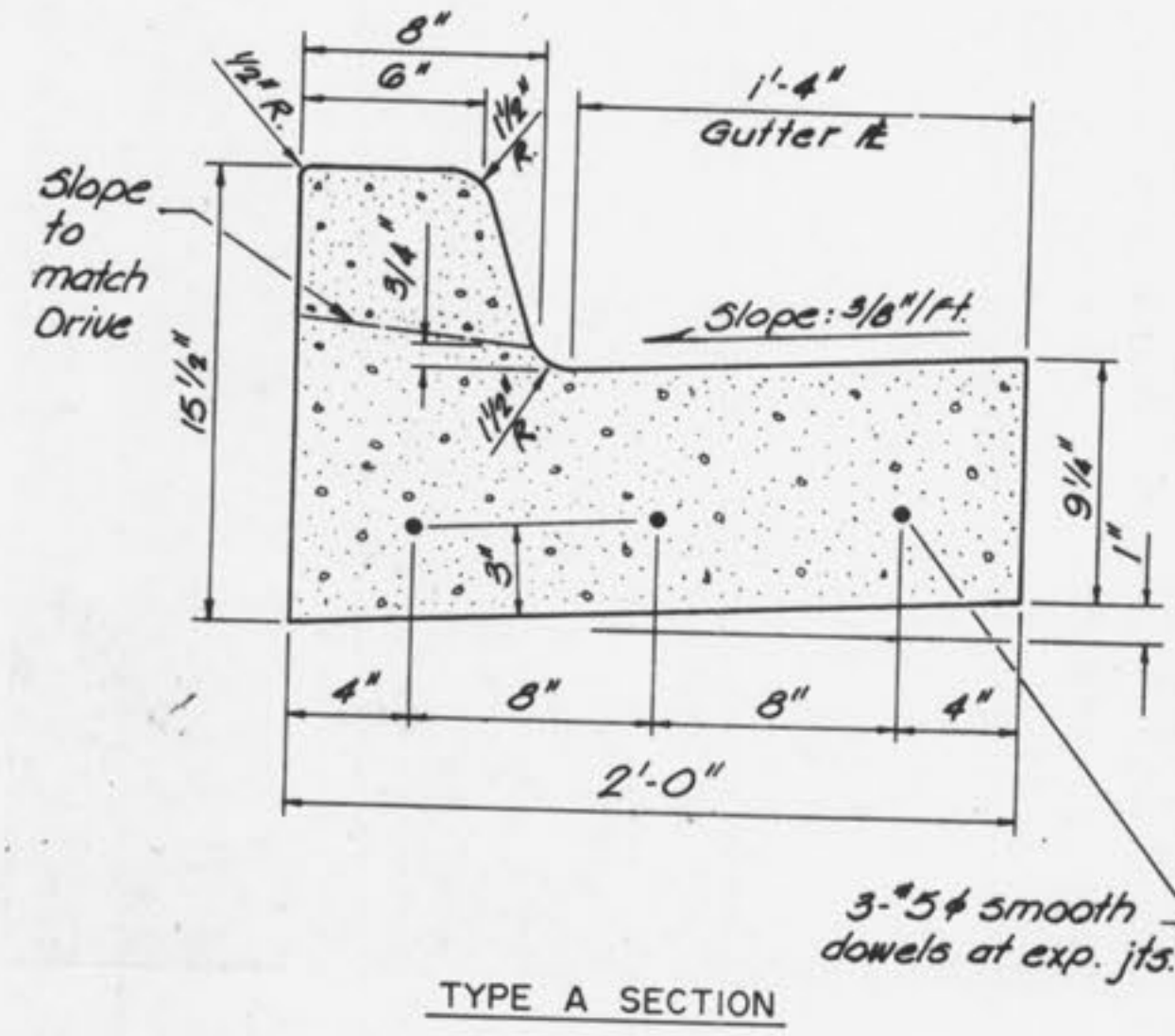
WHEELCHAIR RAMP DETAIL



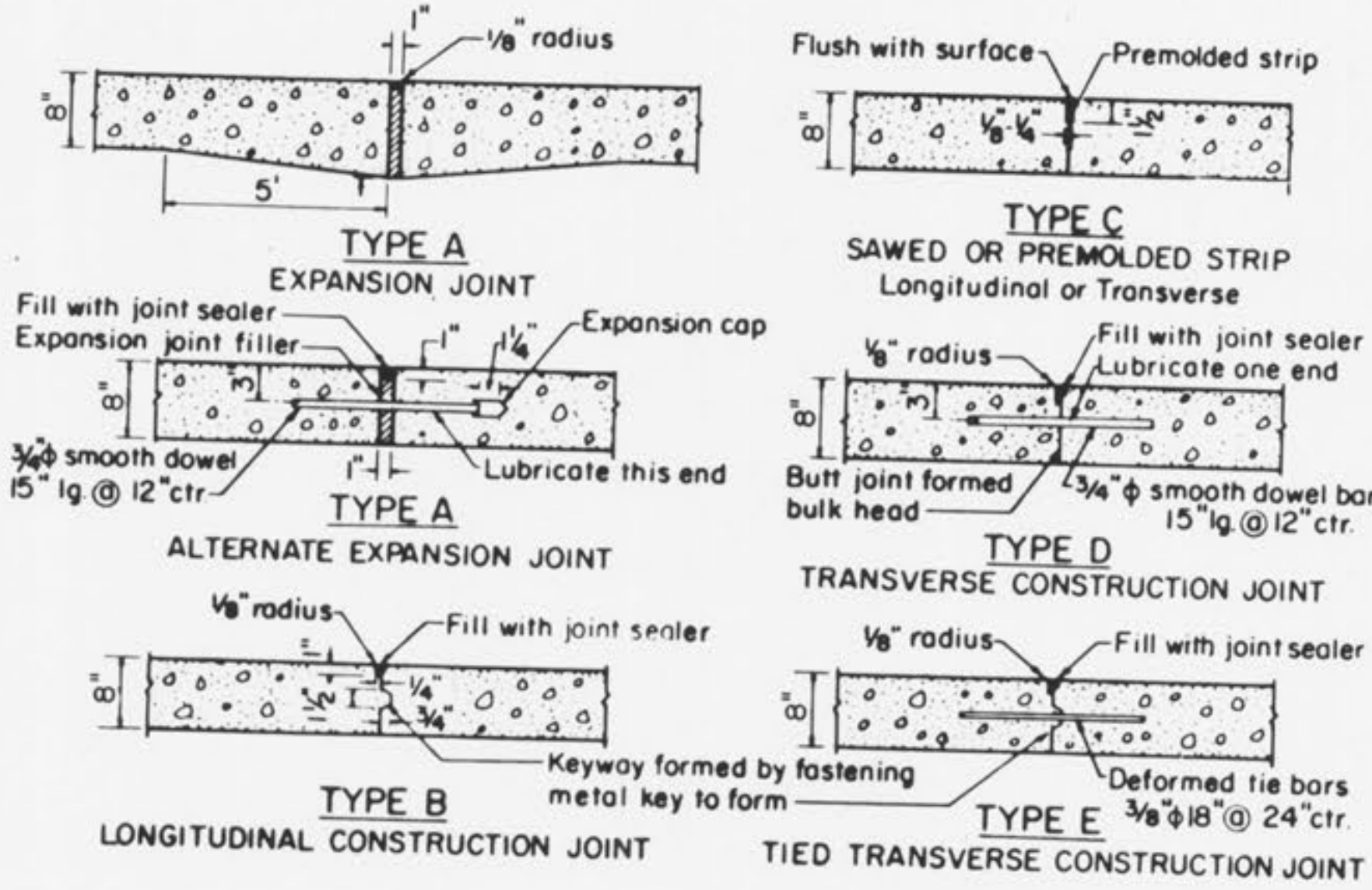
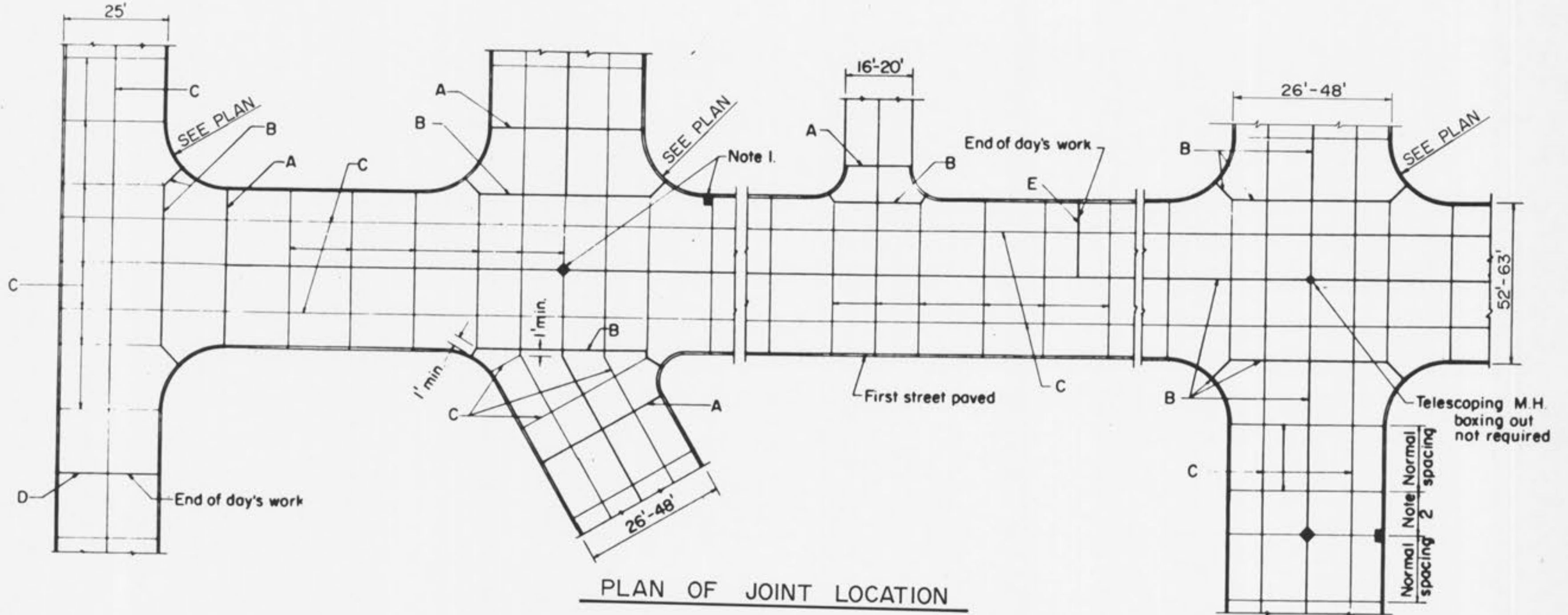
- NOTES**
- 3-#5 smooth dowels at expansion joints
 - 3/4" expansion joint with #5 x 2'-0" dowels to be placed at radius return points. These dowels shall be greased and wrapped on one end with expansion tubes.
 - 1 1/2" deep contraction joints shall be installed at approximately 15 foot intervals. These joints shall pass through the entire curb section surface.

JOINT LOCATION

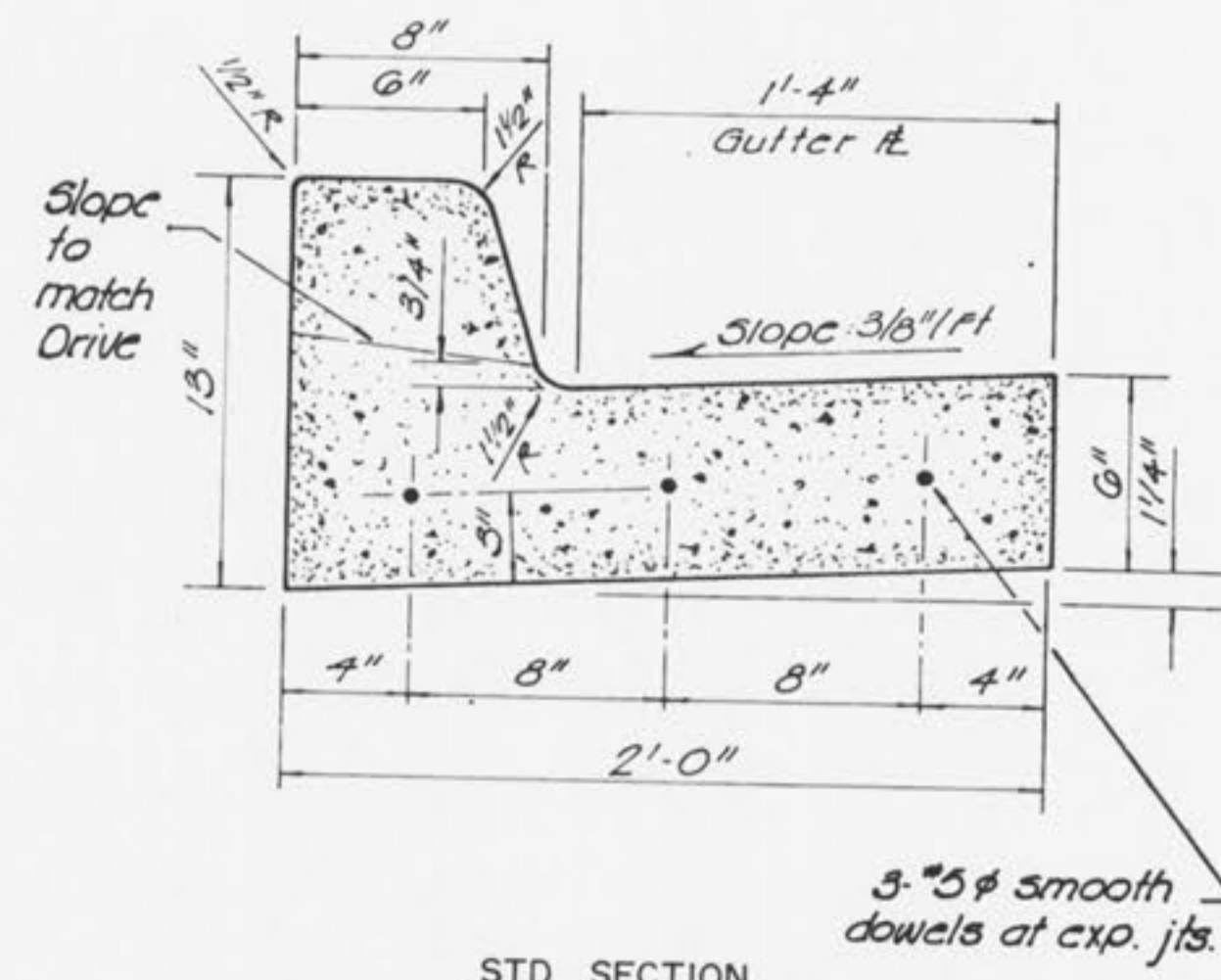
CURB AND GUTTER DETAILS



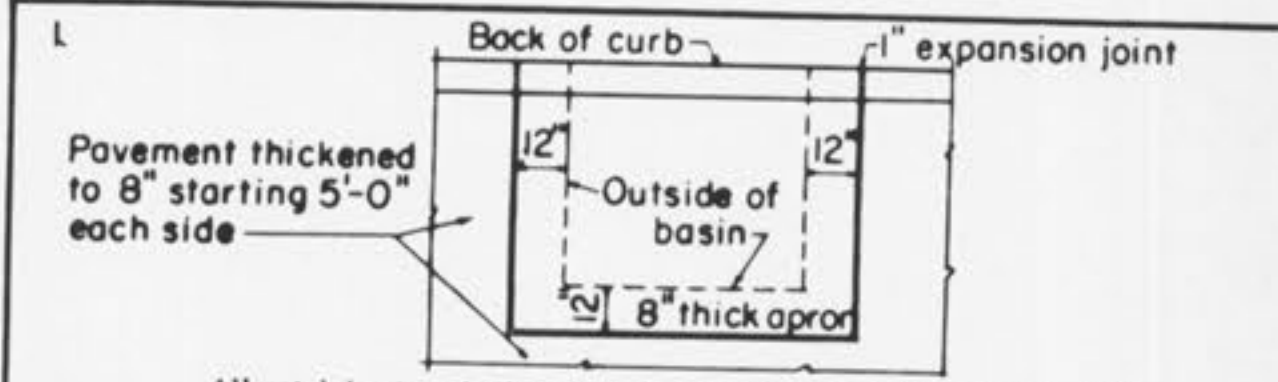
TYPE A SECTION



JOINT DETAILS



STD. SECTION



- All catch basins shall be separated from the pavement and curb by boxing out around basin as shown above. Expansion joint material shall extend completely through curb and slab. Manhole castings within the pavement limits shall be boxed in like manner except when telescoping type castings are used.
- When a joint falls within 5 ft. of contact basins, manholes, or other structures, shorten one or more panels either side of opening to permit joint to fall on round structures and at or between corners of rectangular structures.
- All transverse joints must extend through curbs and must be continuous across pavement, except tied transverse construction joints. Expansion joints will not be required except at structures or as shown on the plans.
- Maximum transverse joint spacing shall be in accordance with the following table:

Max. spacing in ft.	Type of Coarse Agg.	Max spacing in ft.	Type of Coarse Agg.
25	Crushed Granite	15	Siliceous gravel
20	Crushed Limestone	15	Gravel smaller than 3/4 in.
20	Calcareous gravel	15	Slag

- All soft and yielding material and other portions of the subgrade which will not compact readily when rolled or tamped shall be removed as directed and replaced with suitable material placed and compacted. The subgrade shall be thoroughly compacted with suitable equipment so as to have uniform density at moisture contents of not less than standard optimum (AASHTO T98).
- All sewer trenches and structure excavations shall be backfilled to natural or finished grade as soon as conditions permit. All backfill shall be compacted with mechanical tampers in layers of not over 6 in. loose material. In order to prevent differential heave the backfill material shall be the same material as that of the subgrade adjacent to the trench.
- The minimum cement content shall not be less than 6.0 sacks (94 lb. per sack) per cu. yd. of concrete. The maximum size aggregate shall not exceed 1/4 of the slab thickness. The maximum slump shall not exceed 3 in. All concrete shall be air entrained in accordance with the following table:

Max. size of Coarse Aggregate, inches	Air Content, per cent by volume
1-1/2, 2	5 ± 1
3/4, 1	6 ± 1
3/8, 1/2	7-1/2 ± 1

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CONSULTING ENGINEERS/ARCHITECTS
LANDSCAPE ARCHITECTS/PLANNERS

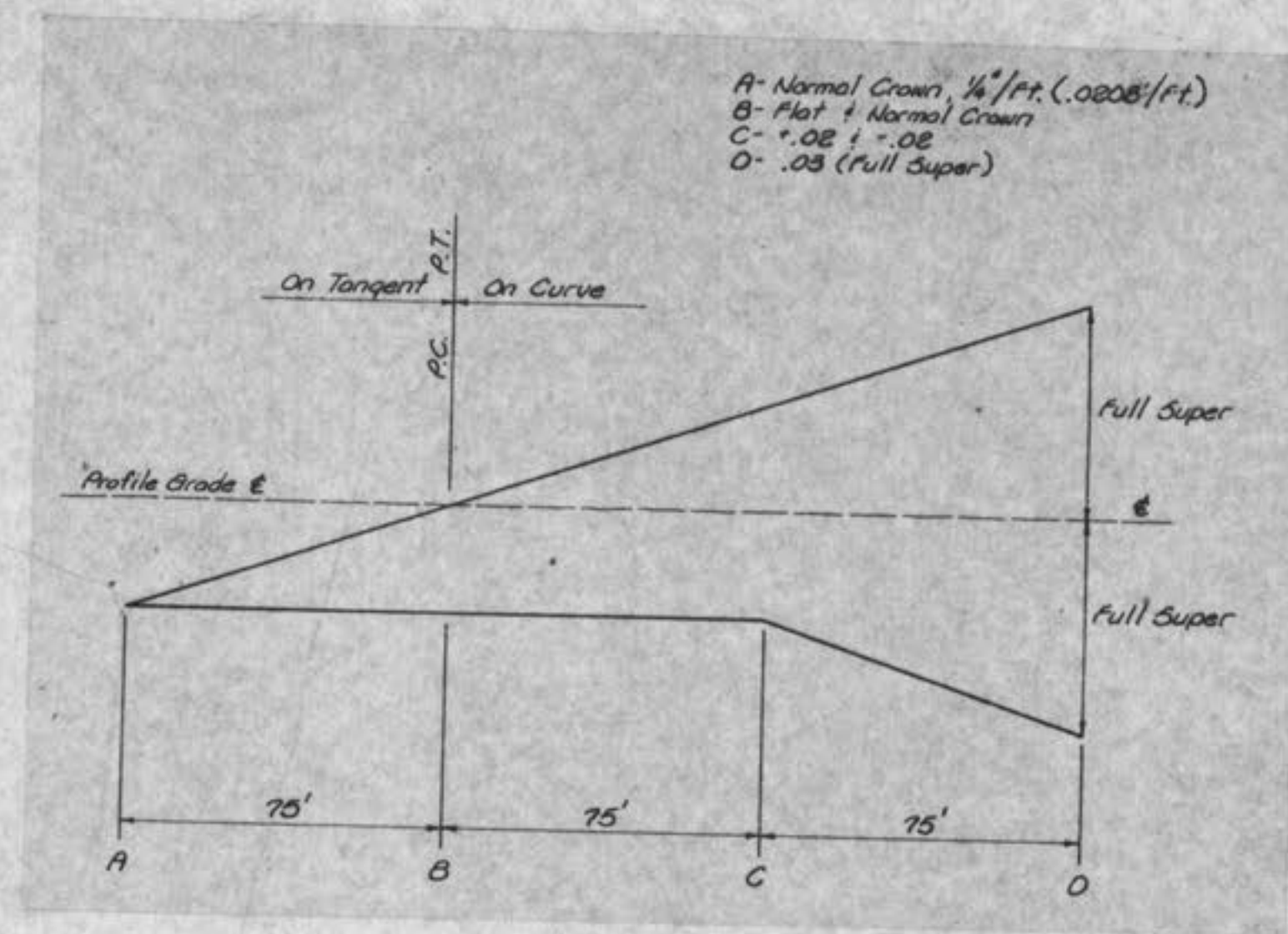
MEXICO ROAD IMPROVEMENTS
HIGHWAY "K" TO SALT LICK ROAD
MISCELLANEOUS DETAILS
CITY OF OFALLON, MISSOURI

OFFICES:
ONE PINE RIDGE PLAZA
SUITE 200
800 MELROUSE DRIVE
LENEXA, KANSAS 66042
100 CITY CENTER SQUARE
SUITE 4
100 MAIN
KANSAS CITY, MISSOURI 64105

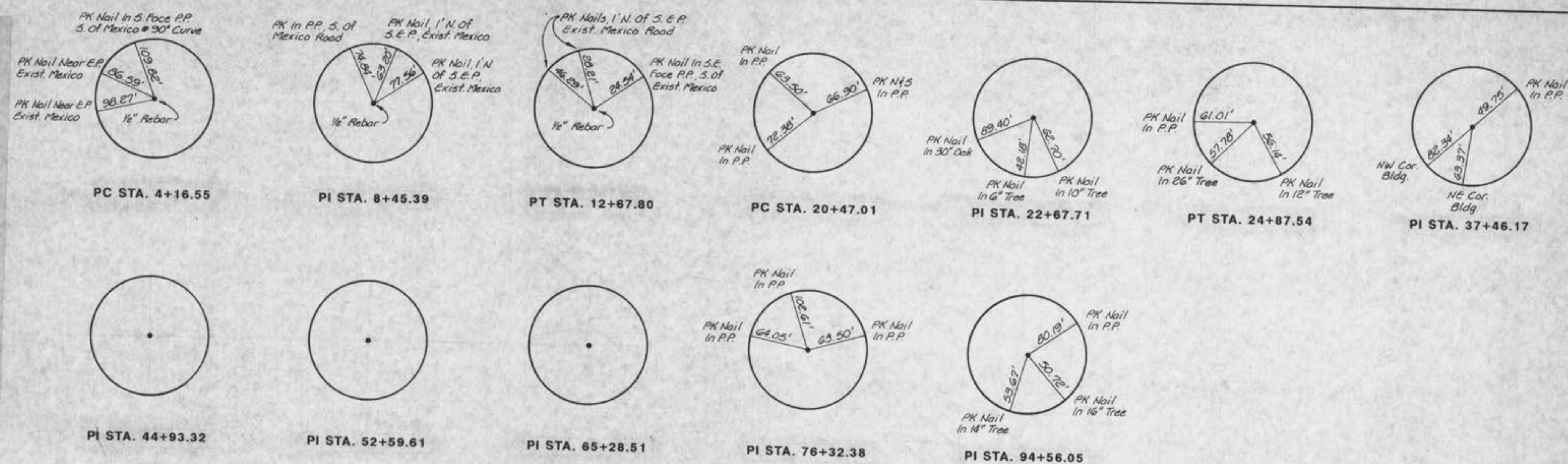
THE ENTERPRISE BUILDING
506 ENTERPRISE ROAD
KANSAS CITY, MISSOURI 64108
COLONIAL PLAZA
SUITE 4
141 E. MISSOURI
OFALLON, MISSOURI 63366

JOB NO. 3948
DATE Nov. 1983
SCALE NO SCALE
SHEET NO. 39 OF 65

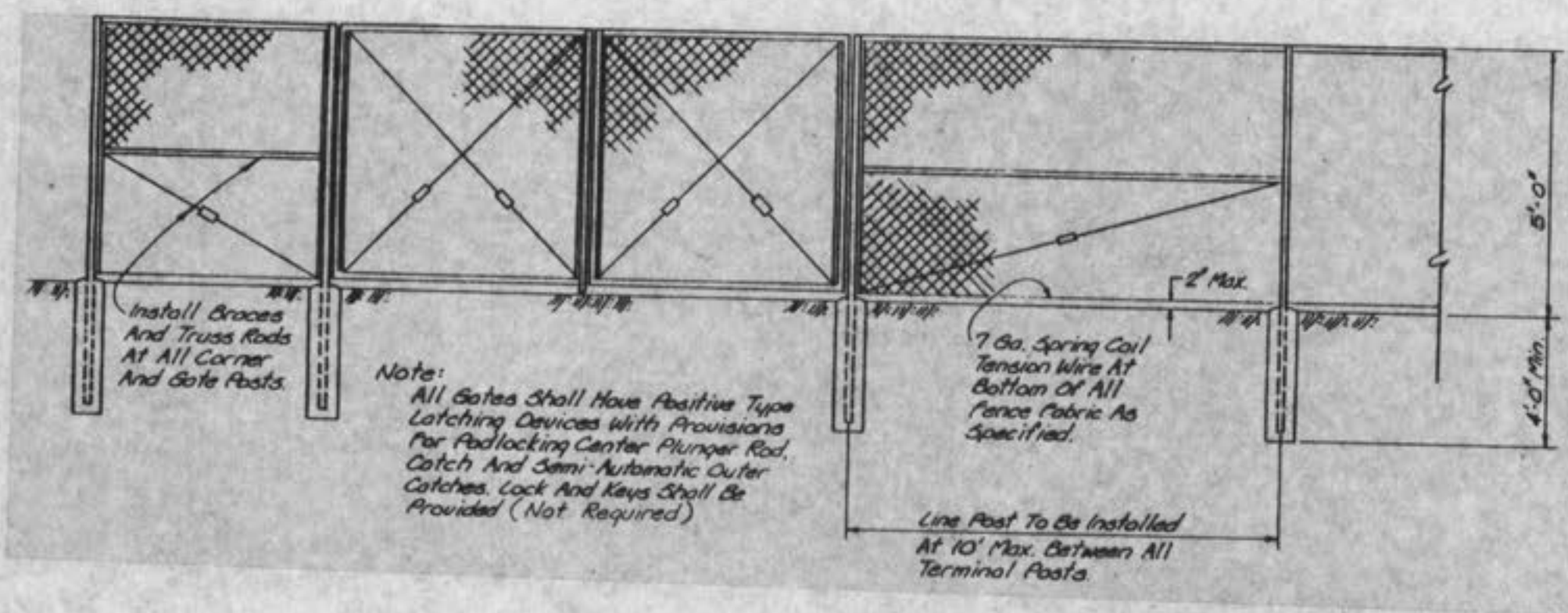
DESIGNED BY REH DRAWN BY KF CHECKED BY WAC



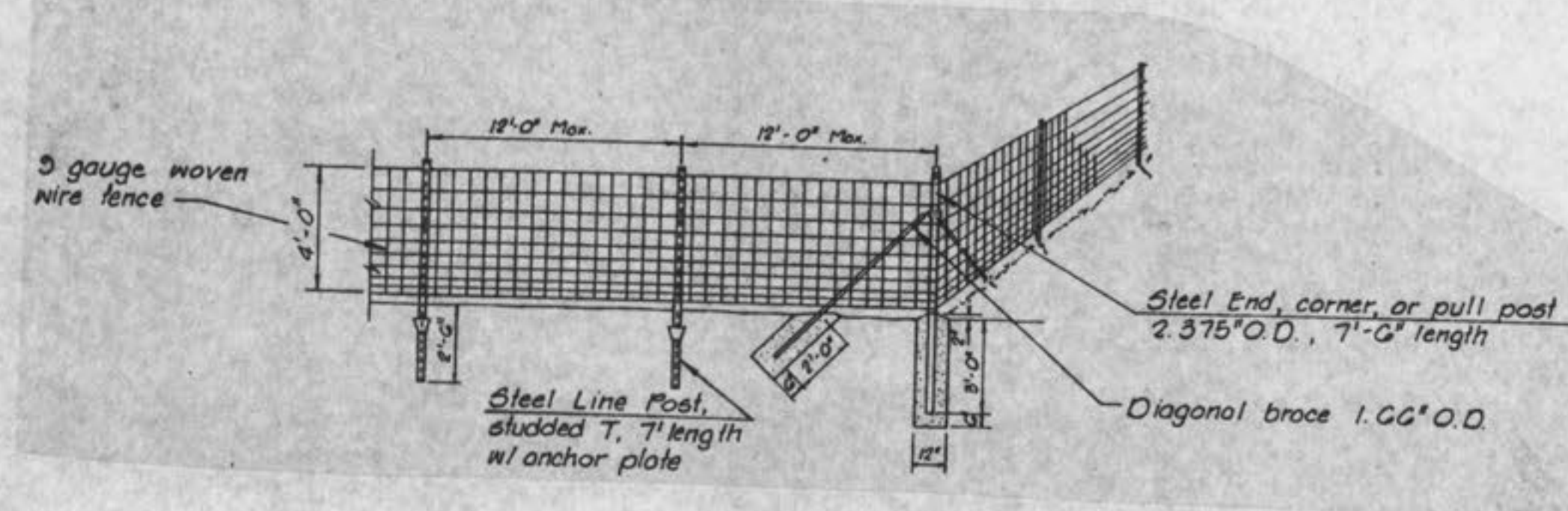
SUPER ELEVATION DIAGRAM



TIES

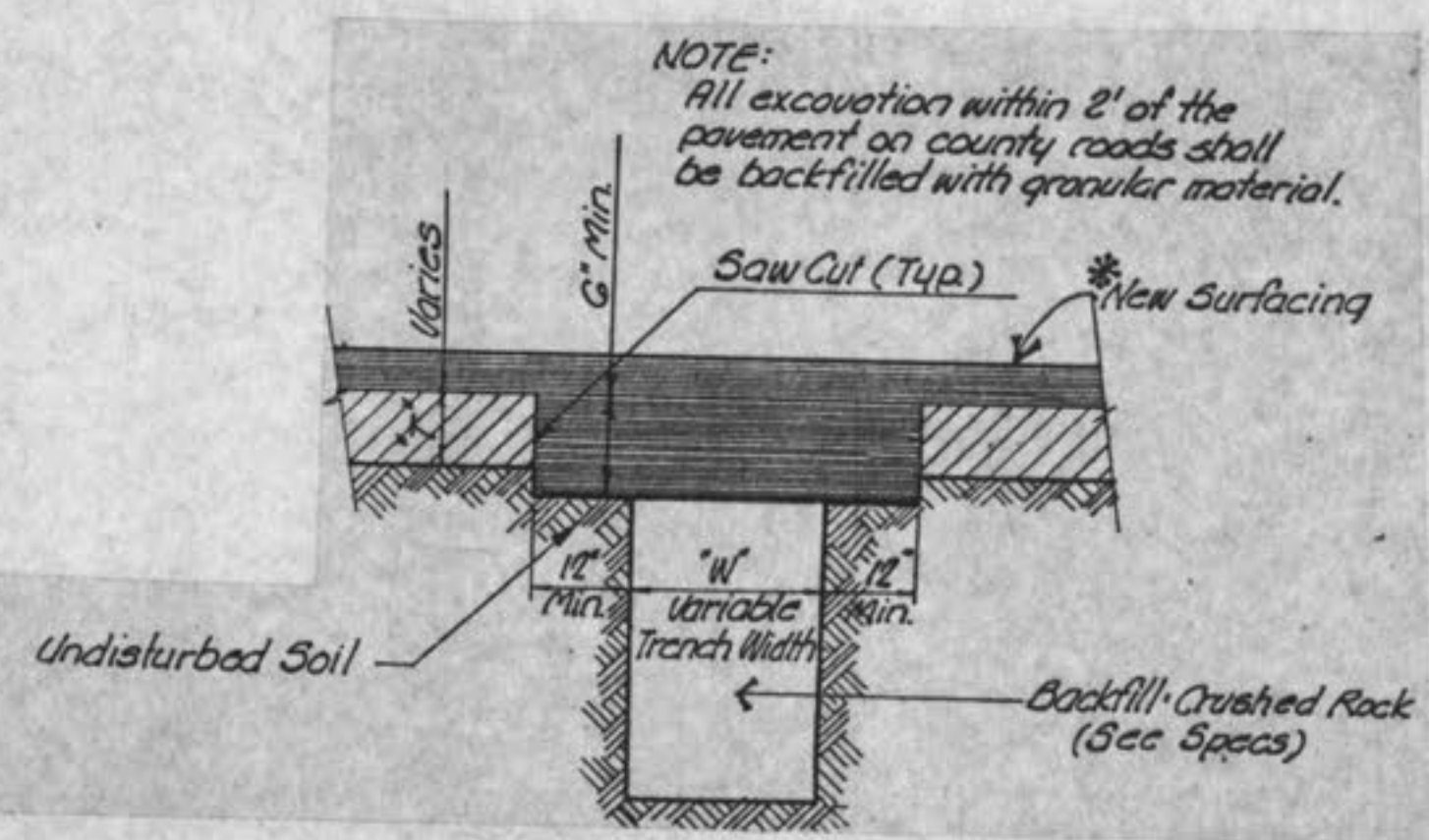


CHAIN LINK FENCE DETAIL

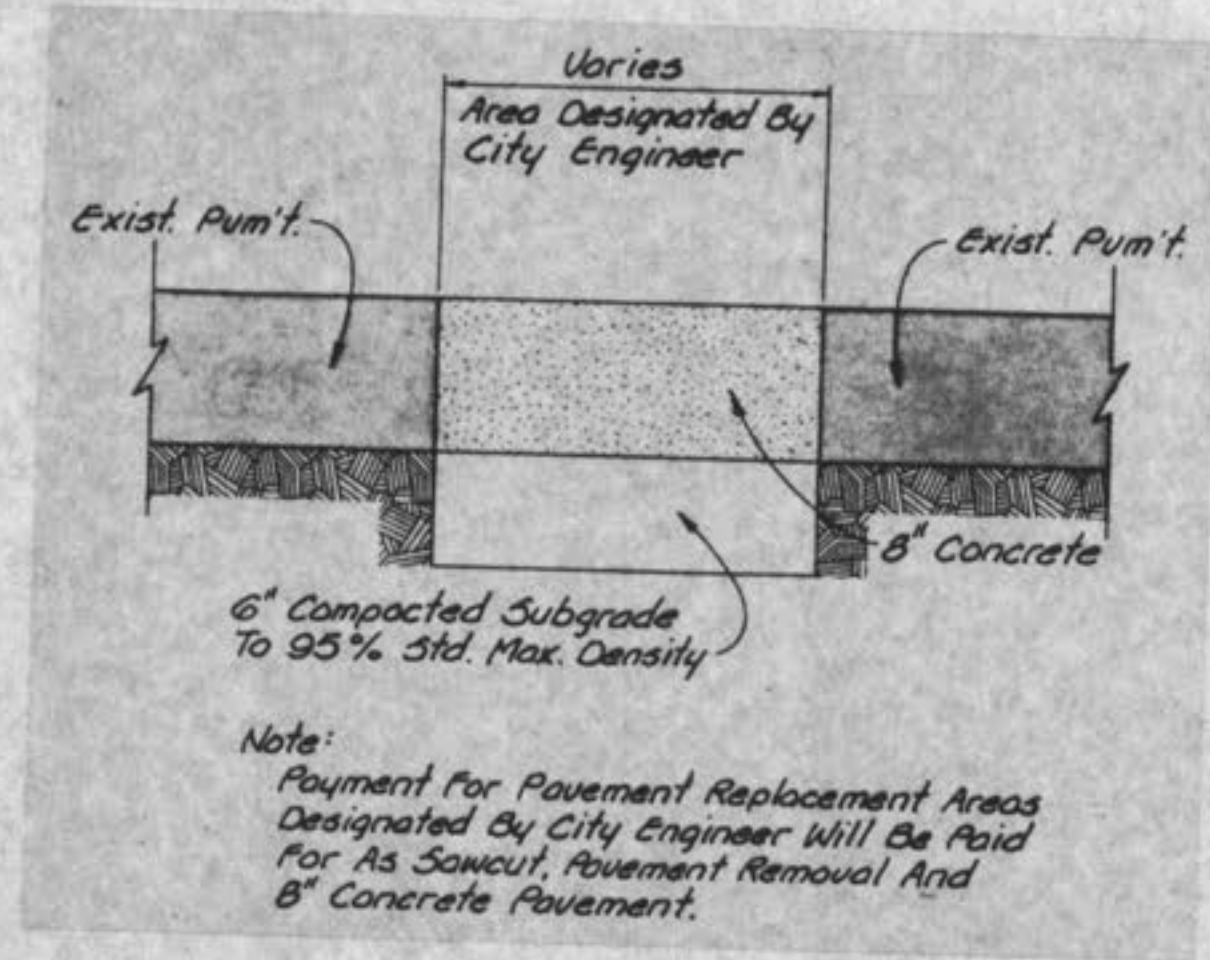


WOVEN WIRE FENCE DETAIL

- GENERAL NOTES**
- All utility service lines shall be kept in service and protected during construction operations. The drawings indicate the location of known existing utility service lines as could best be determined. However, such locations are not guaranteed and the plans may not show the location of all existing utility service lines. It shall be the Contractor's responsibility to verify and locate all existing utility service lines, and notify the Engineer of any conflicts and discrepancies immediately.
 - Unless otherwise noted, utilities are to be relocated by others.
 - During construction, access shall be maintained for emergency vehicles and local traffic. All construction signs and traffic controls shall be in accordance with the "Manual on Uniform Traffic Control Devices" (MUTCD). The fire and police departments, school bus companies, and post office are to be notified 48 hours prior to any street closings.
 - The Contractor shall adjust grading to protect trees and shrubs outside of the permanent rights-of-way.
 - The Contractor shall exercise care in removing existing drainage pipe. All pipe shall be delivered to the Public Works Department storage yards or to other approved locations.
 - All street signs to be removed by the Contractor and turned over to the City.
 - All property monuments disturbed during construction are to be replaced by the Contractor.
 - All traffic marking, including striping, letters, symbol sizes, spacing and colors, shall conform to the current "Manual on Uniform Traffic Control Devices" for streets and highways as approved by the U. S. Department of Transportation Federal Highway Administration.
 - All pavement, curb and gutters, driveways and sidewalks removed during construction of the project for any reason shall be replaced. The replacement construction shall conform in type, quality and dimension to that as shown on the Drawings or as directed by the Engineer.
 - The Contractor shall erect and maintain such barricades, construction signs, lanterns and guards as may be required to protect persons from injury and to avoid property damage during the construction period and until it is safe for vehicles and persons to use the facilities. All excavated material shall be piled in a manner that will not endanger the work and that will avoid obstructing sidewalks and driveways. Gutters shall be kept clear or other satisfactory provisions made for street and parking area drainage.
 - The Contractor shall do all necessary clearing preparatory to excavation for the proposed construction. The Contractor shall not allow the site of the work to become littered with trash and waste material but shall maintain same in a neat and orderly condition during the process of the work to completion. The Contractor shall clean up all dirt from paved surfaces and not allow same to pack on the roadway, sidewalk and parking area or create a traffic nuisance.
 - Contour interval - 2'.
 - Guard rail to be installed in accordance with the "Standard Specifications" Section 606 and MTC Drawing 606.00.
 - Woven wire fence to be installed in accordance with the "Standard Specifications" Section 607.20 and as per typical section details. See Sheet No. 41.
 - Traffic signal conduit and pull boxes to be in accordance with the "Standard Specifications" Section 902 and MTC Drawing 902.10.
 - Drives: Shall be: (Unless otherwise noted)
 - Residential - 14' Wide, 15' Radius
 - Future Commercial - 28' Wide, 35' Radius
 - All reinforced concrete pipe to be Class III.
 - All manholes disturbed during construction shall be relocated.
 - All water line relocation to be done by others.
 - Removal, relocation or replacement of fences shall be subsidiary to other costs.



TYPICAL PAVEMENT CUT



PAVEMENT REPAIR DETAIL

GBA
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 CONSULTING ENGINEERS-ARCHITECTS
 LANDSCAPE ARCHITECTS-PLANNERS

OFFICES:
 ONE PINE RIDGE PLAZA
 6300 ENTERPRISE ROAD
 8307 MELROSE DRIVE
 LENEXA, KANSAS 66042
 100 CITY CENTER SQUARE
 SUITE 4
 100 MAIN
 KANSAS CITY, MISSOURI 64101

THE ENTERPRISE BUILDING
 6300 ENTERPRISE ROAD
 KANSAS CITY, MISSOURI 64109
 COLONIAL PLAZA
 SUITE 4
 100 E. ELM
 ST. LOUIS, MISSOURI 63102

Missouri State Seal
 WALTER A. COPPINGER, JR.
 NUMBER E-11149
 MISSOURI PROFESSIONAL SEAL

MEXICO ROAD IMPROVEMENTS
 HIGHWAY "K" TO SALT LICK ROAD
MISCELLANEOUS DETAILS
 CITY OF O'FALLON, MISSOURI

DESIGNED BY: REH DRAWN BY: KF CHECKED BY: WAC

JOB NO. 3948
 DATE Nov, 1988
 SCALE None
 SHEET NO. 41 of 65

MEXICO ROAD IMPROVEMENTS
CROSS SECTIONS

3948

SHEET NO. 42 of 65

3 2 1 100 9 8 7 6 50 4 3 2 1 ± 1 2 3 4 50 6 7 8 9 100 1 2

510
Sta 6+15
500

510
Sta 6+00
500

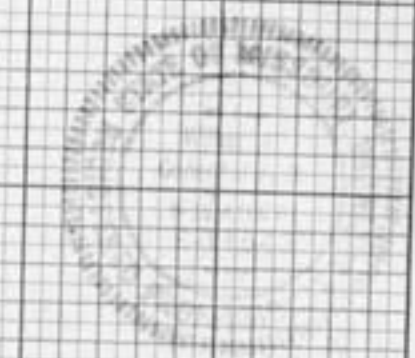
Remove Exist Punt. &
Grade To Drain

510
Sta 5+00
500

520
510
Sta 4+00
500

F-7 C-215


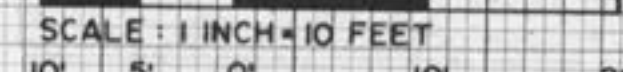
3 2 1 100 9 8 7 6 50 4 3 2 1 ± 1 2 3 4 50 6 7 8 9 100 1 2



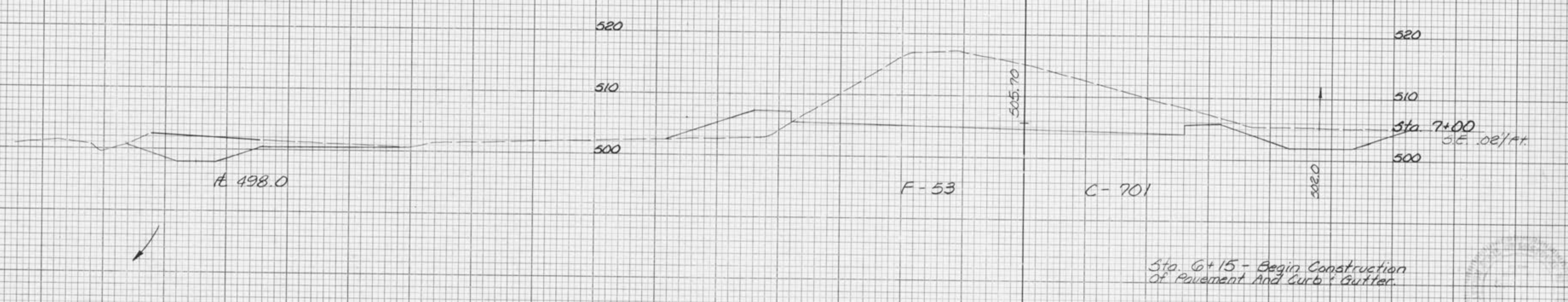
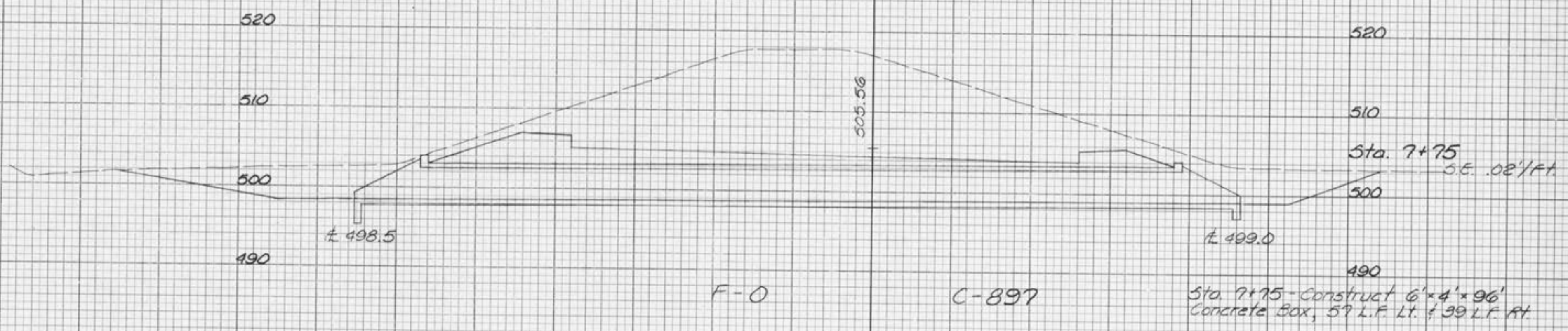
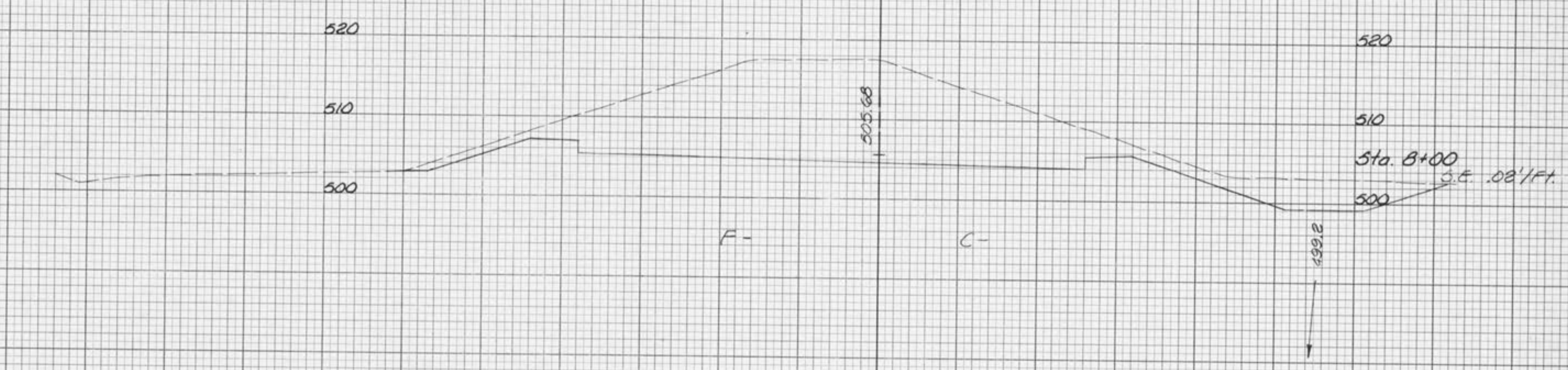
NO. _____
NOTE BOOK _____
AREAS CHECKED _____
PLOTTED _____
TEMPLATE _____
AREAS CHECKED _____

NO. _____
AREAS CHECKED _____

5 4 3 2 1 0 1 2 3 4 5

Horiz:  SCALE: 1 INCH = 10 FEET
 Vert:  SCALE: 1 INCH = 10 FEET

MEXICO ROAD IMPROVEMENTS
CROSS SECTIONS
 3948 SHEET NO. **42A** of **65**



SURVEYED _____
 CHECKED _____
 DATE _____
 NO. _____

PLOTTED _____
 CHECKED _____
 DATE _____
 NO. _____

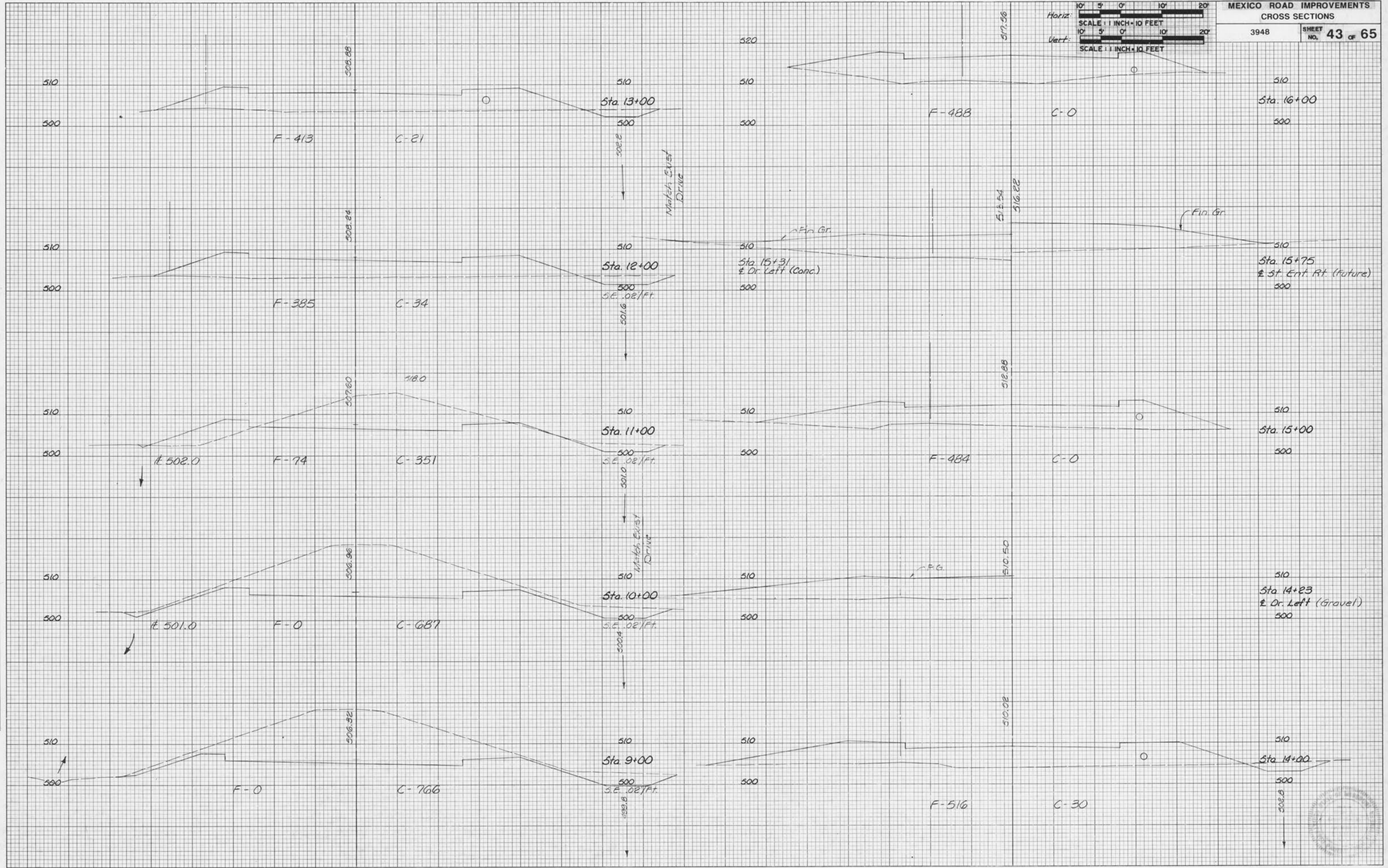
5 4 3 2 1 0 1 2 3 4 5 5 4 3 2 1 0 1 2 3 4 5

Horiz: 1" = 10' 20'
SCALE: 1 INCH = 10 FEET
10' 5' 0' 10' 20'
Vert: 1" = 10' 20'
SCALE: 1 INCH = 10 FEET
10' 5' 0' 10' 20'

MEXICO ROAD IMPROVEMENTS
CROSS SECTIONS
3948 SHEET NO. 43 of 65

DATE
BY
SURVEYED
PLOTTED
TEMPLATE
NOTE BOOK
AREAS CHECKED
NO.

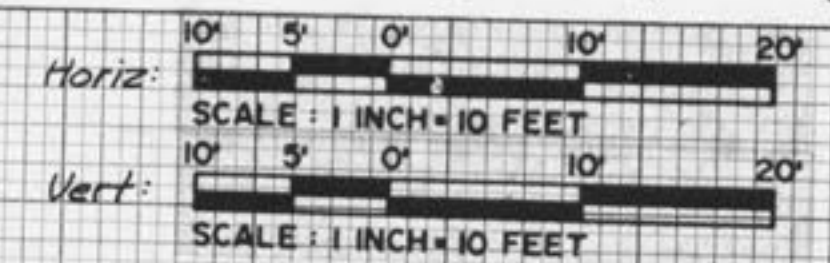
DATE
BY
SURVEYED
PLOTTED
TEMPLATE
NOTE BOOK
AREAS CHECKED
NO.



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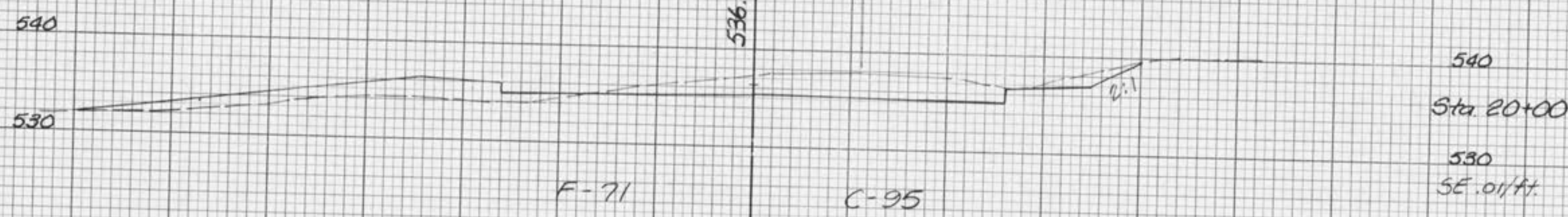
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5 4 3 2 1 0 1 2 3 4 5

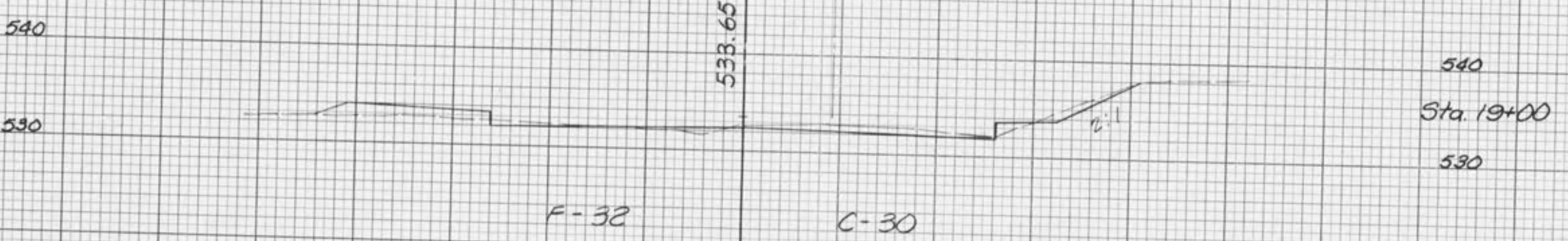


MEXICO ROAD IMPROVEMENTS
CROSS SECTIONS

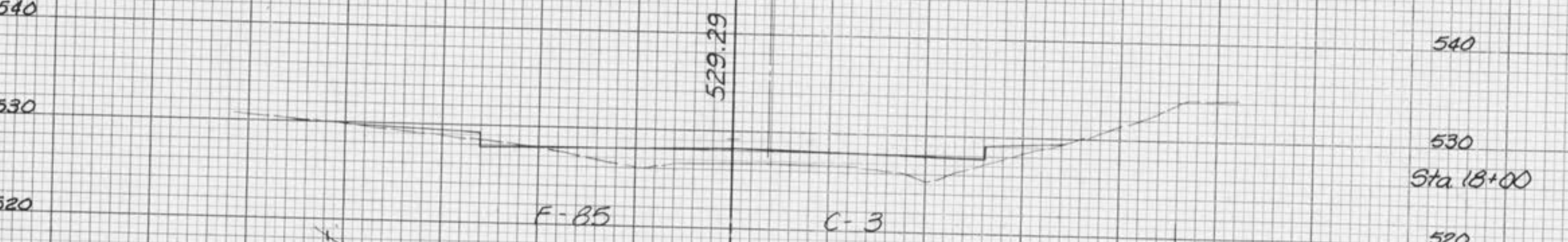
3948 SHEET NO. 44 OF 65



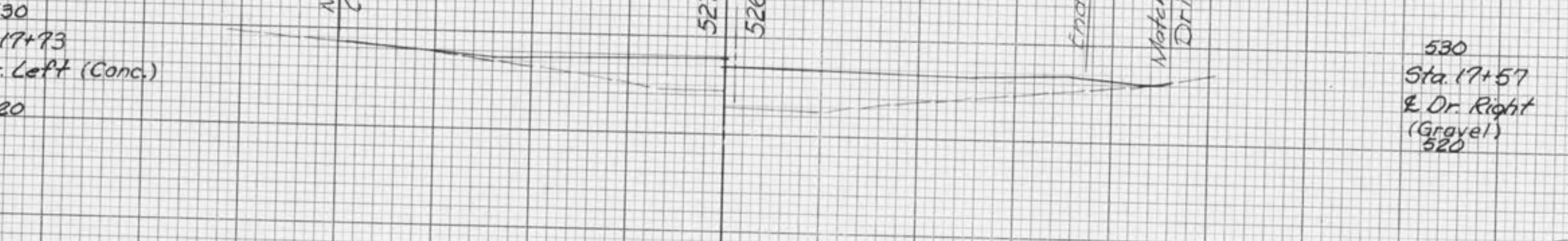
540
Sta 20+00
530
SE .01/ft.



540
Sta 19+00
530

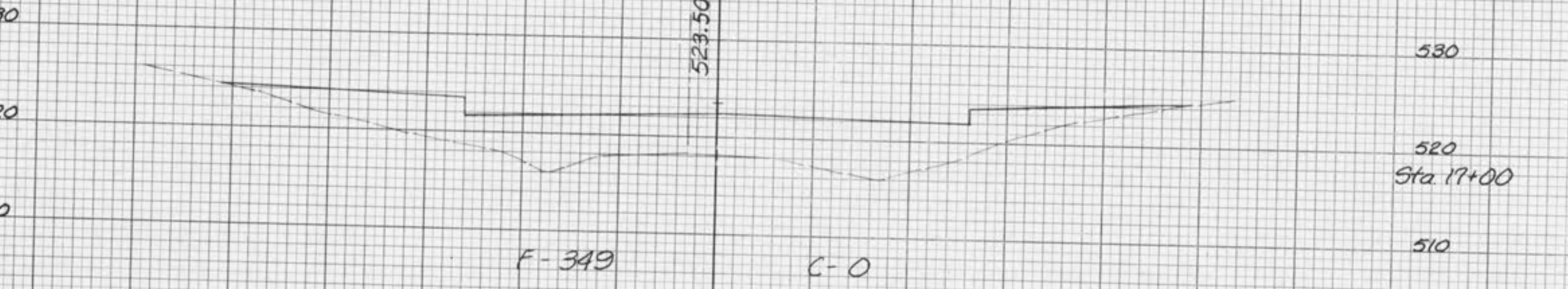


540
530
Sta 18+00
520



530
Sta 17+73
& Dr. Left (Conc.)
520

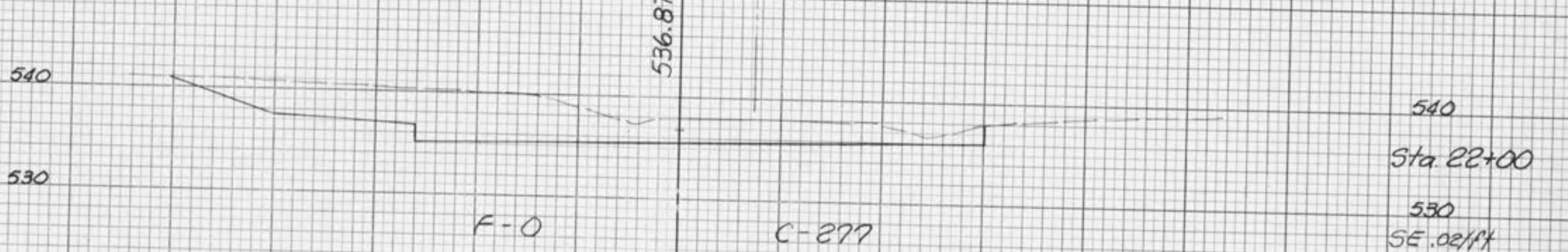
530
Sta 17+57
& Dr. Right (Gravel)
520



530
520
Sta 17+00
510



540
Sta 23+00
530
SE .02/ft.

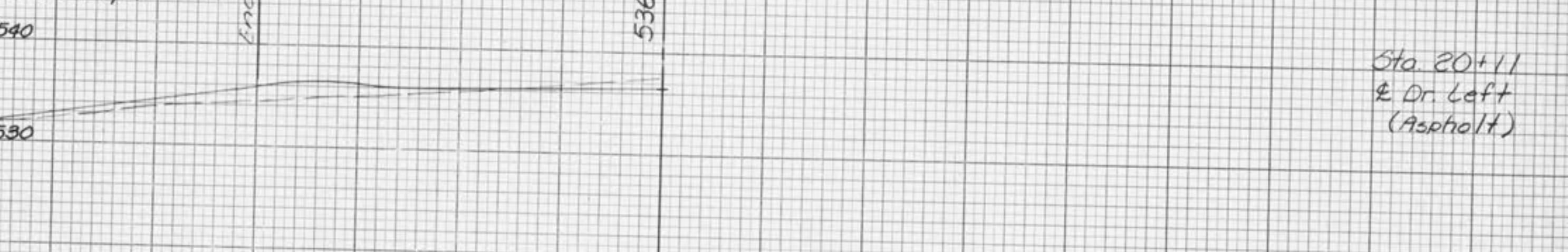


540
Sta 22+00
530
SE .02/ft.



540
Sta 21+50 Rt.
For Profile White Oak
Lane See Sht. 24

540
Sta 21+00
530
SE .015/ft.



540
Sta 20+11
& Dr. Left (Asphalt)

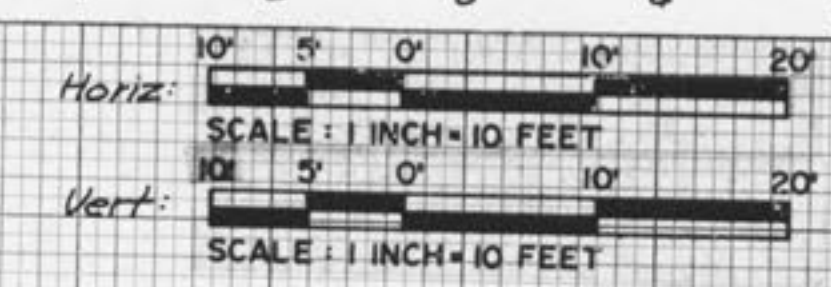
5 4 3 2 1 0 1 2 3 4 5

5 4 3 2 1 0 1 2 3 4 5



5 4 3 2 1 0 1 2 3 4 5

5 4 3 2 1 0 1 2 3 4 5



MEXICO ROAD IMPROVEMENTS
CROSS SECTIONS

3948 SHEET NO. 45 OF 65

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____

DATE _____

BY _____

REVISIONS

NO. _____



5 4 3 2 1 0 1 2 3 4 5

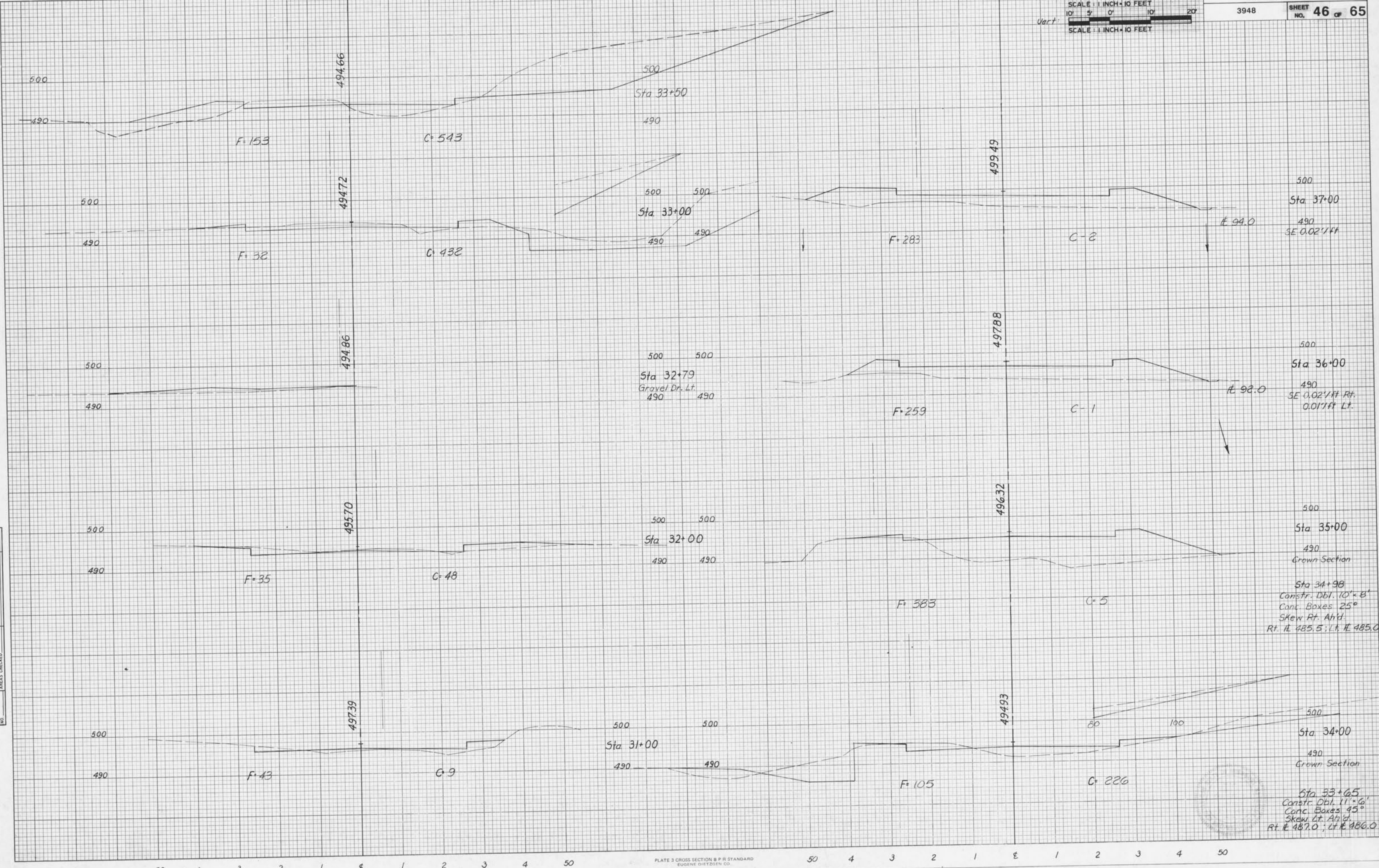
5 4 3 2 1 0 1 2 3 4 5

50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50

Horiz: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET
Vert: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET

MEXICO ROAD IMPROVEMENTS
CROSS SECTIONS
3948 SHEET NO. 46 OF 65



NOTE BOOK
NO.

NOTE BOOK
NO.

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50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50

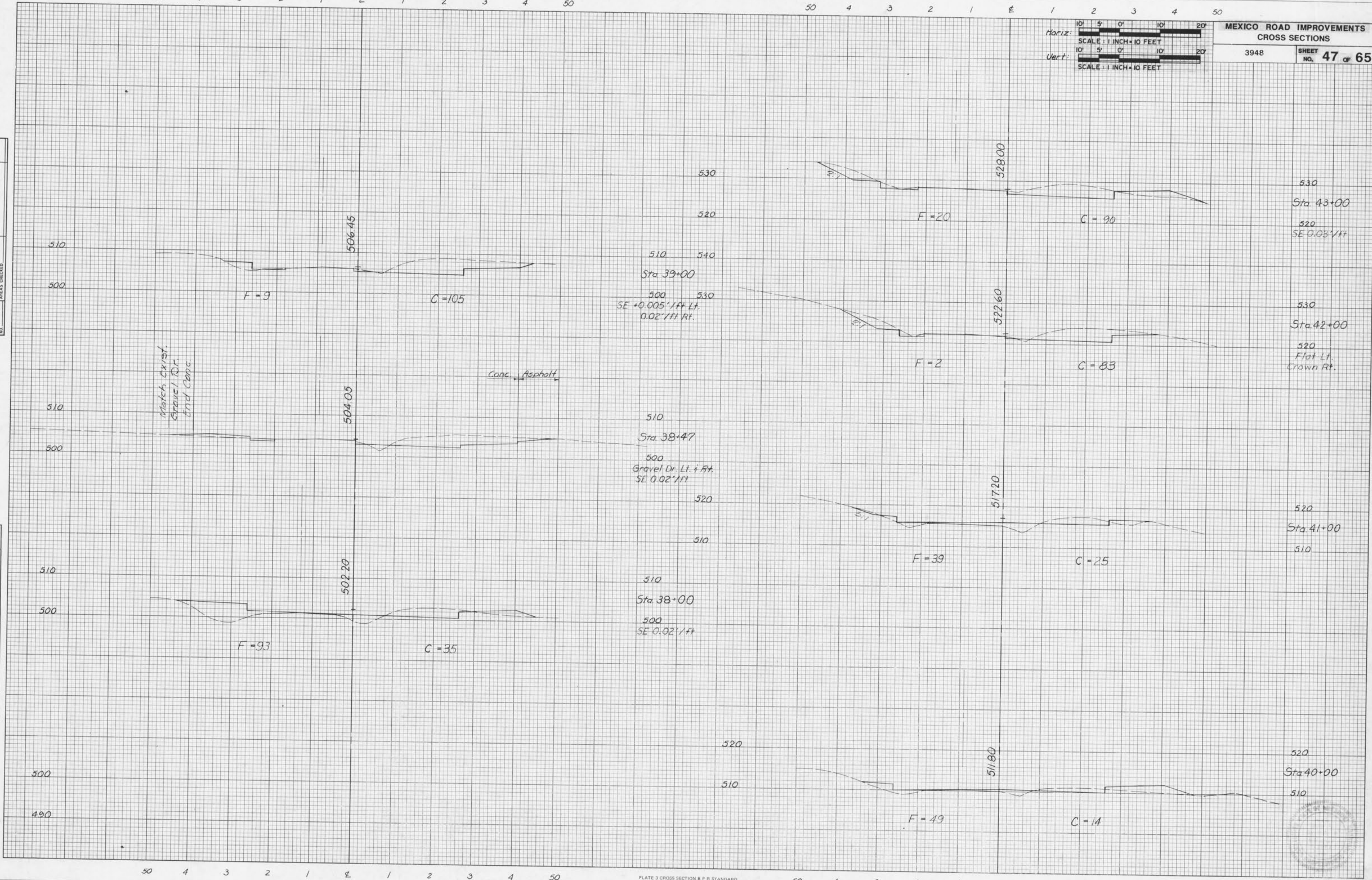
50 4 3 2 1 E 1 2 3 4 50

Horiz: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET
Vert: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET

MEXICO ROAD IMPROVEMENTS
CROSS SECTIONS
3948 SHEET NO. 47 of 65

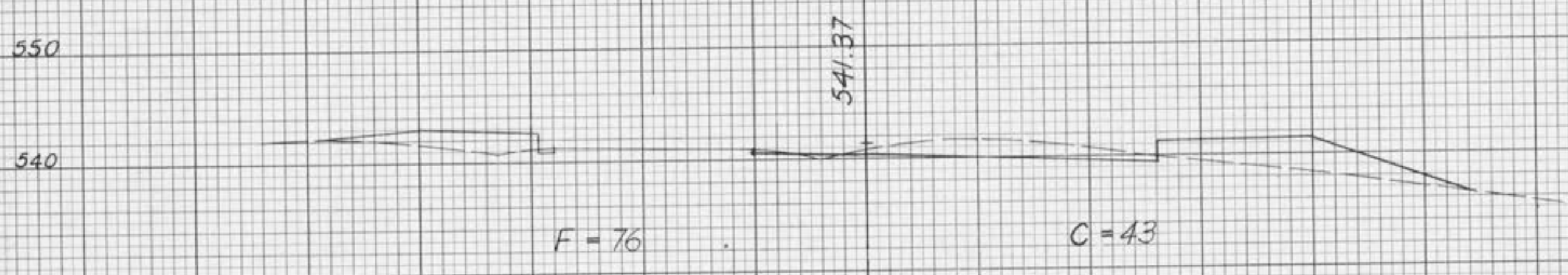
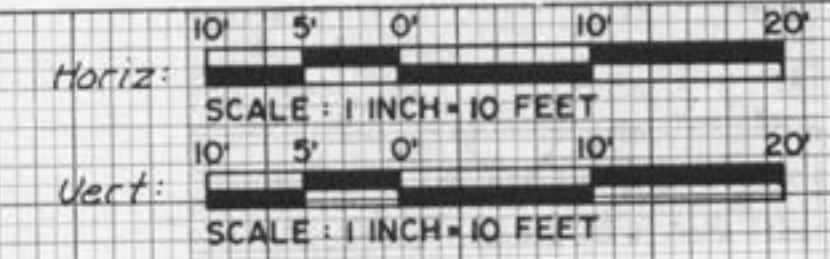
DATE
BY
SURVEYED
PLOTTED
TEMP. PLATE
AREAS
CHECKED
NO.

DATE
BY
SURVEYED
PLOTTED
TEMP. PLATE
AREAS
CHECKED
NO.

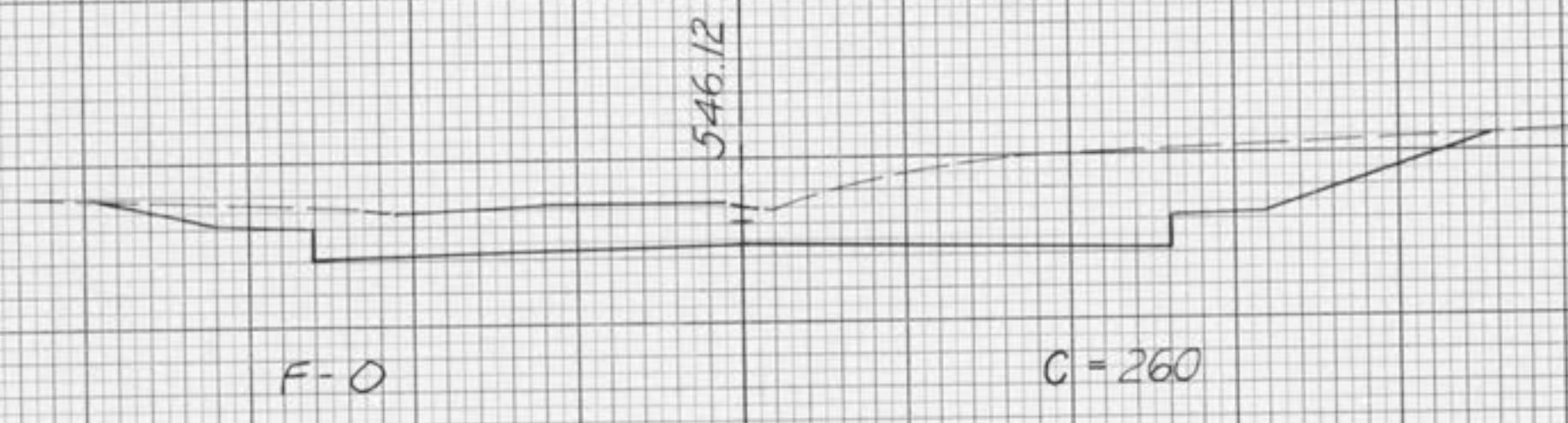


50 4 3 2 1 0 1 2 3 4 50

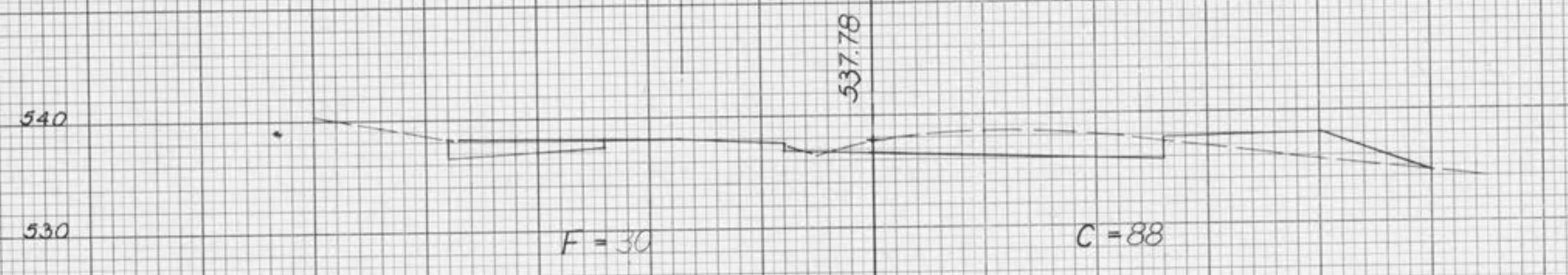
50 4 3 2 1 0 1 2 3 4 50



550
Sta. 46+00
540
SE 0.03' / ft

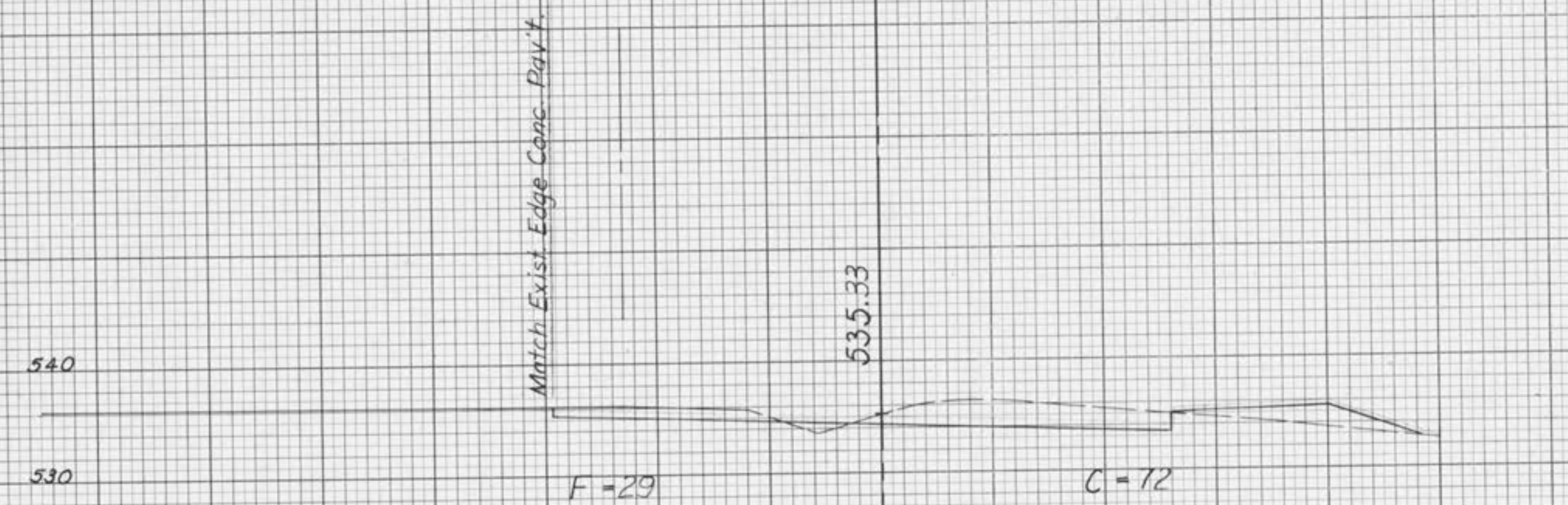


550
Sta. 49+00
540

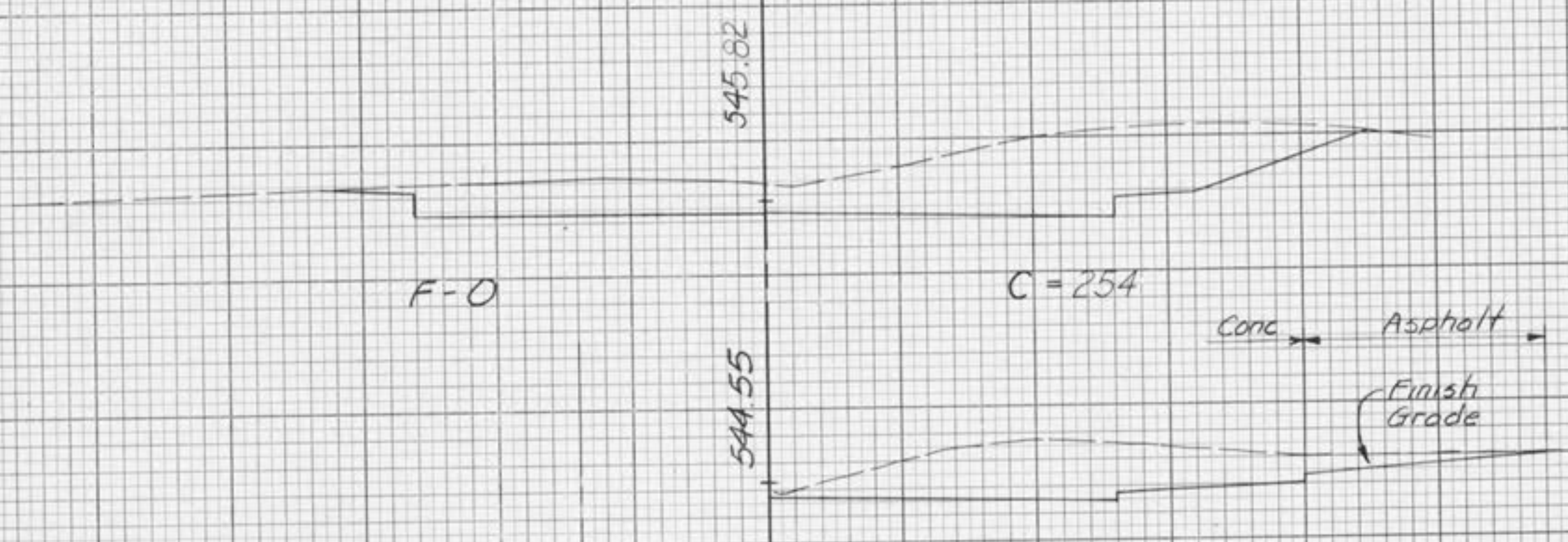


540 560
Sta. 45+00
530 550

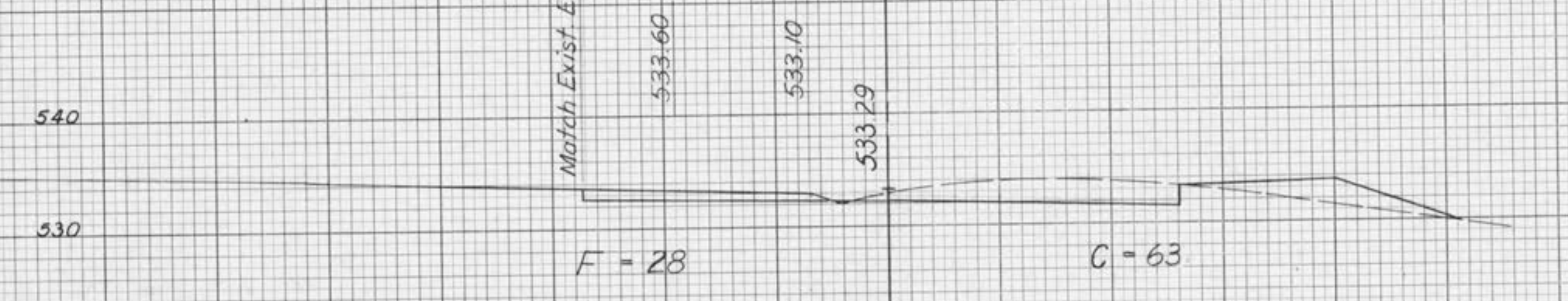
SE 0.03' / ft. Rt.
NOTE: Warp Left Side to Match
Edge Exist. Conc. Pavt. @
Barrington Dr. from approx.
Sta. 43+60 to Sta. 44+79.
See Intersection Detail
Sht. No. 20



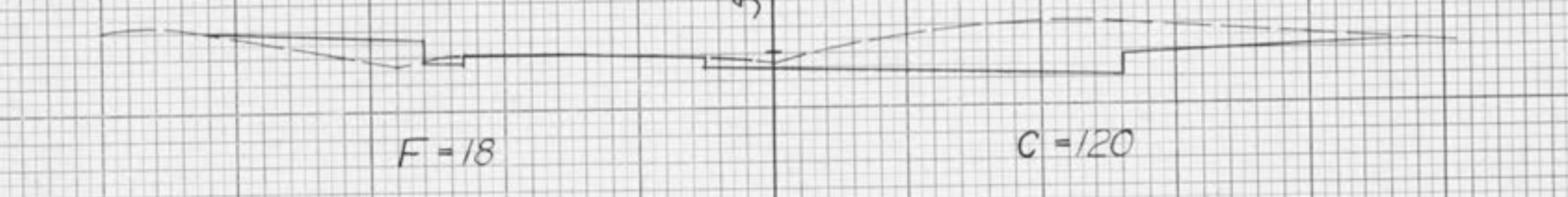
540 550
Sta. 44+43
530 540
SE 0.03' / ft. Rt.
Warp Lt. Side



550
Sta. 48+00
540
550
Sta. 47+25
Dr. Right
540



540 580
Sta. 44+00
530 540
SE 0.03' / ft. Rt.
Warp Lt. Side



550
Sta. 47+00
540
SE 0.023' / ft

50 4 3 2 1 0 1 2 3 4 50

50 4 3 2 1 0 1 2 3 4 50

SURVEY
NOTE BOOK
NO.

ORIGINAL
SURVEY
NOTE BOOK
NO.

REVIEWED
SURVEY
NOTE BOOK
NO.

50 4 3 2 1 E 1 2 3 4 50

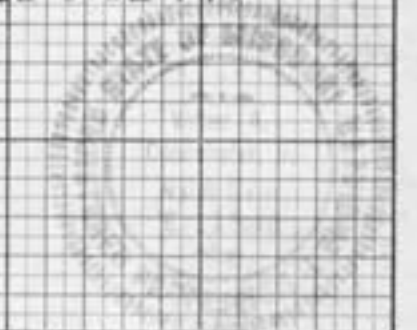
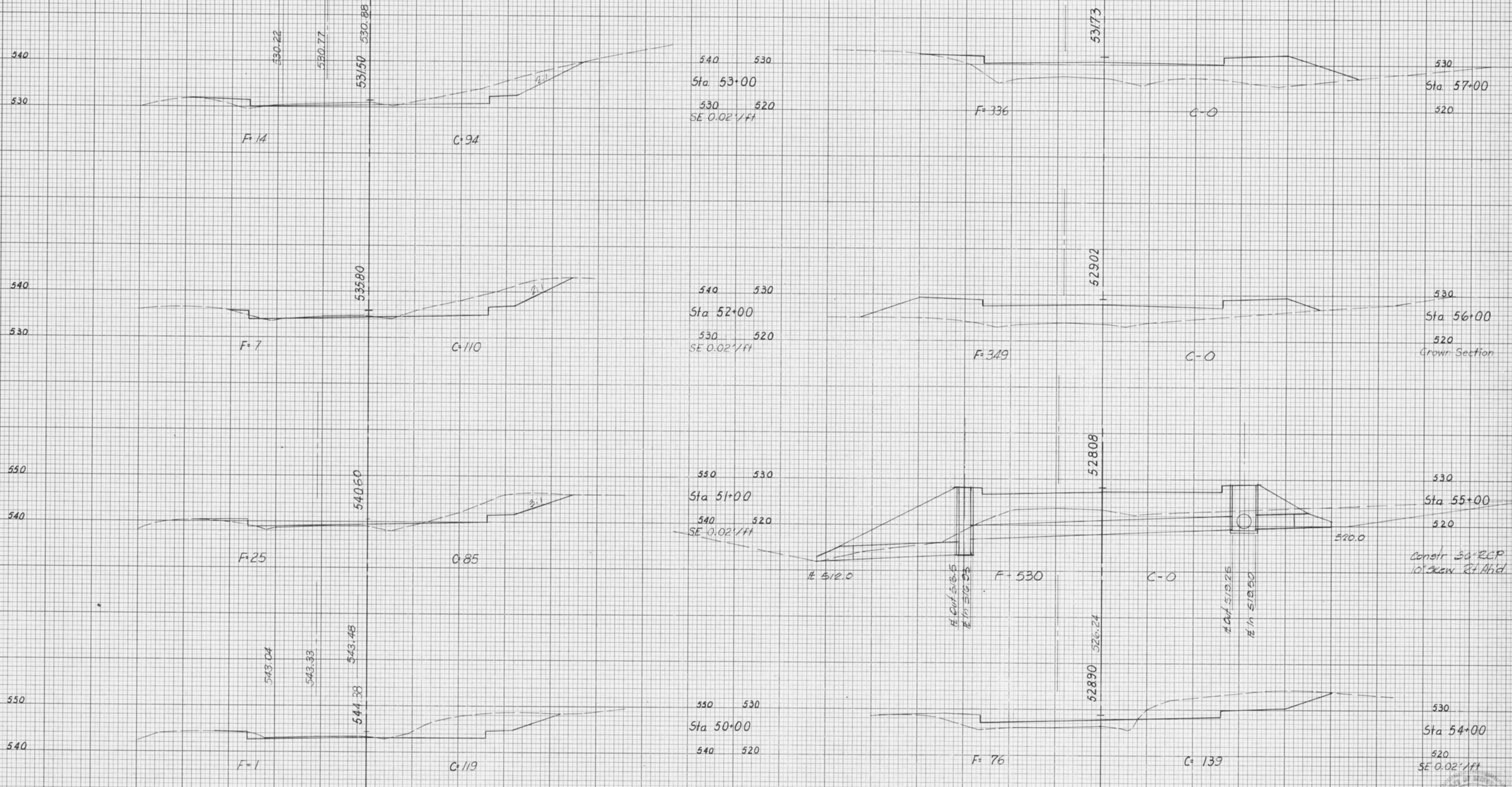
50 4 3 2 1 E 1 2 3 4 50

Horiz: SCALE: 1 INCH = 10 FEET
Vert: SCALE: 1 INCH = 10 FEET

MEXICO ROAD IMPROVEMENTS
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DATE
BY
SURVEYED
PLOTTED
CHECKED
AREAS CHECKED

DATE
BY
SURVEYED
PLOTTED
CHECKED
AREAS CHECKED

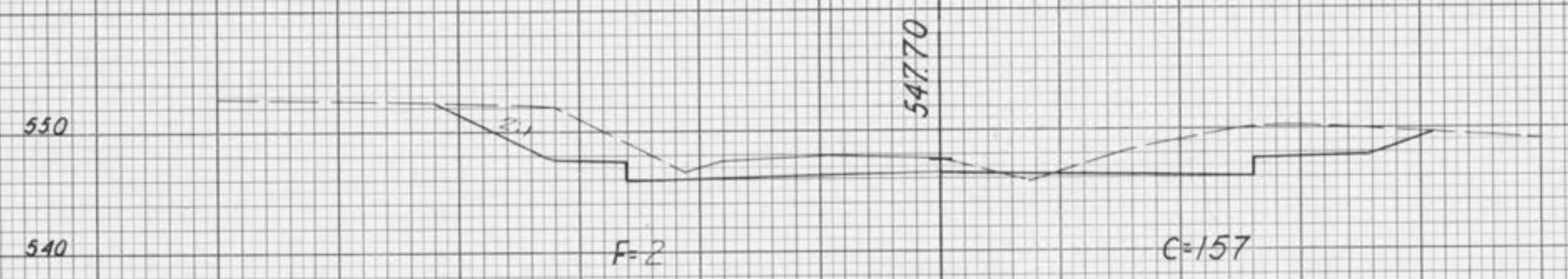


50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50

Horiz: SCALE: 1 INCH = 10 FEET
Vert: SCALE: 1 INCH = 10 FEET

MEXICO ROAD IMPROVEMENTS
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550 560
Sta 60+00
540 550

Schrader Farm Drive

Match Exist. Edge Conc.
557.04

Warp Pav't. Sec.

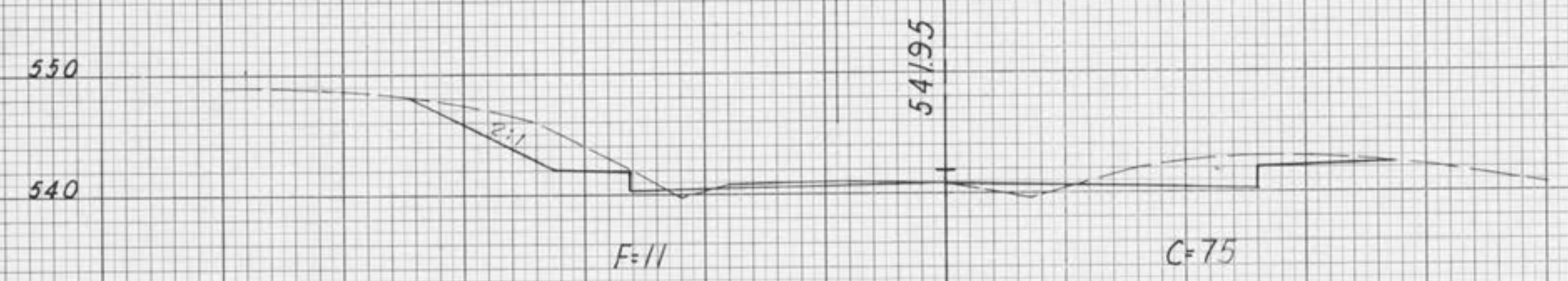
F-2

C-84

560
Sta 63+00

550
SE -0.005'/ft Rt.
-0.02'/ft Lt.

NOTE: From Sta 62+00 to Sta 64+50
Warp Lt. Edge of Pav't. to meet
Exist. Edge of Concrete Ent.
Slab @ Schrader Farm Drive



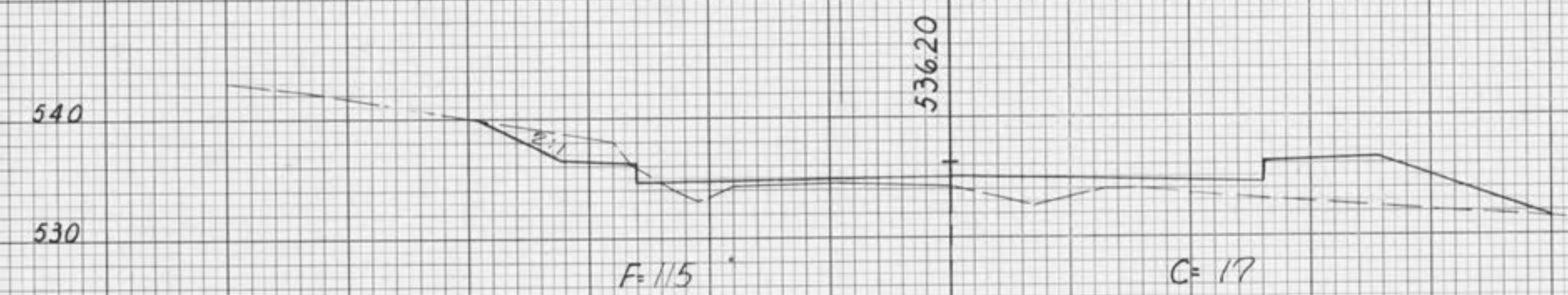
550 560
Sta 59+00
540 550

F+3

C=93

560
Sta 62+00

550



540 550
Sta 58+00
530 540

F=0

C=234

560
Sta 61+00

550

Match Exist. Gr. Dr.

End Concrete Drive

Fin. Gr.

518.76

560
Sta 60+20

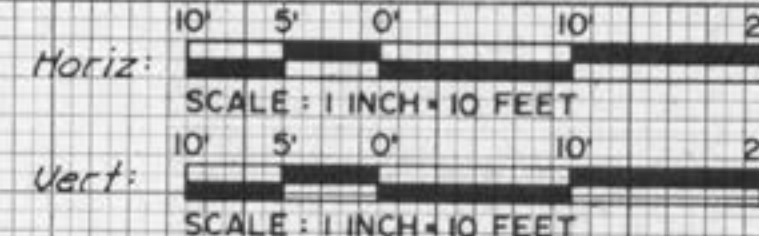
550
Gravel Dr. Lt.

50 4 3 2 1 E 1 2 3 4 50

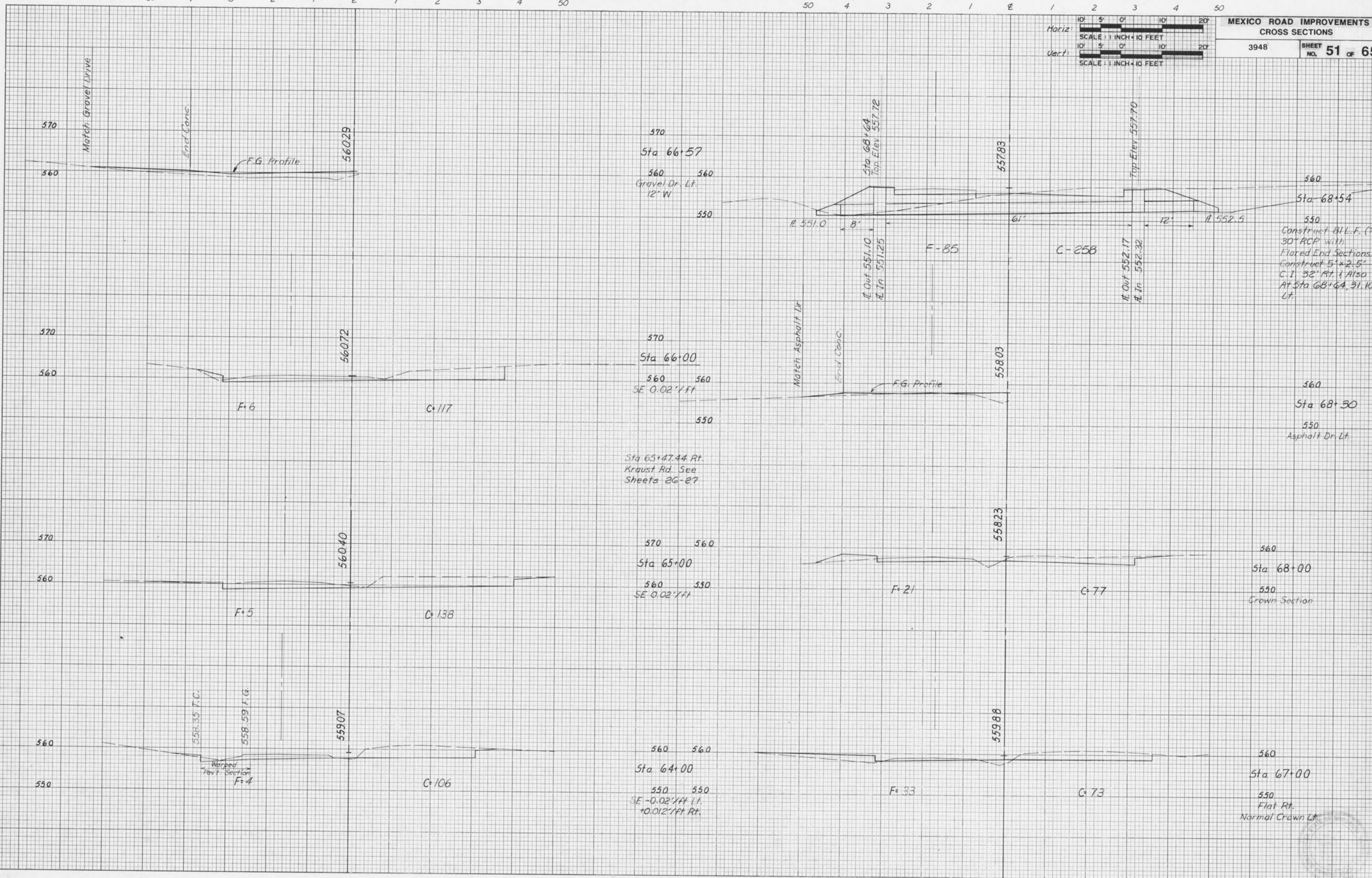
50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50



MEXICO ROAD IMPROVEMENTS
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570
 Sta 66+57
 560 560
 Gravel Dr. Lt.
 12' W

Sta 68+64
 Top Elev 557.72

560
 Sta 68+54
 550
 Construct 811.F. (Total)
 30' RCP with
 Flared End Sections.
 Construct 5' x 2.5'
 C.I. 32' Rt. & Also
 At Sta 68+64, 31.10'
 Lt.

570
 Sta 66+00
 560 560
 SE 0.02' / ft

Sta 65+47.44 Rt.
 Kraust Rd. See
 Sheets 26-27

570 560
 Sta 65+00
 560 550
 SE 0.02' / ft

560 560
 Sta 64+00
 550 550
 SE -0.02' / ft Lt.
 +0.012' / ft Rt.

560
 Sta 68+30
 550
 Asphalt Dr Lt.

560
 Sta 68+00
 550
 Crown Section

560
 Sta 67+00
 550
 Flat Rt.
 Normal Crown Lt.

50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50

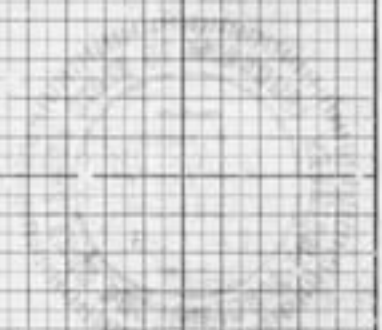
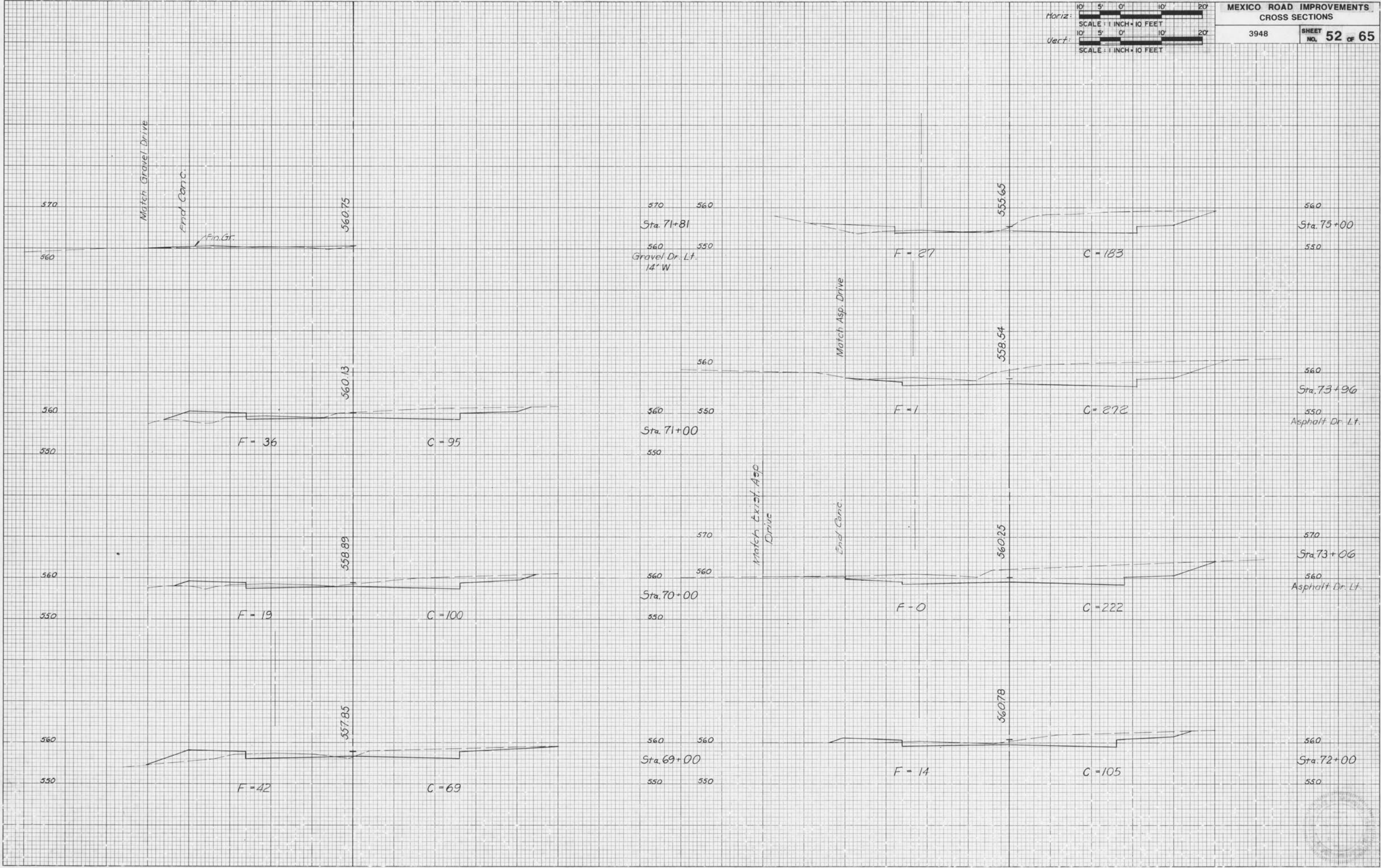
50 4 3 2 1 E 1 2 3 4 50

Horiz: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET
Vert: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET

MEXICO ROAD IMPROVEMENTS
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BY _____ DATE _____
FINAL SURVEY PLOTTED IN DATE _____
NOTE BOOK NO. _____ AREAS CHECKED _____
NO. _____

BY _____ DATE _____
ORIGINAL SURVEY PLOTTED IN DATE _____
NOTE BOOK NO. _____ AREAS CHECKED _____
NO. _____



50 4 3 2 1 E 1 2 3 4 50

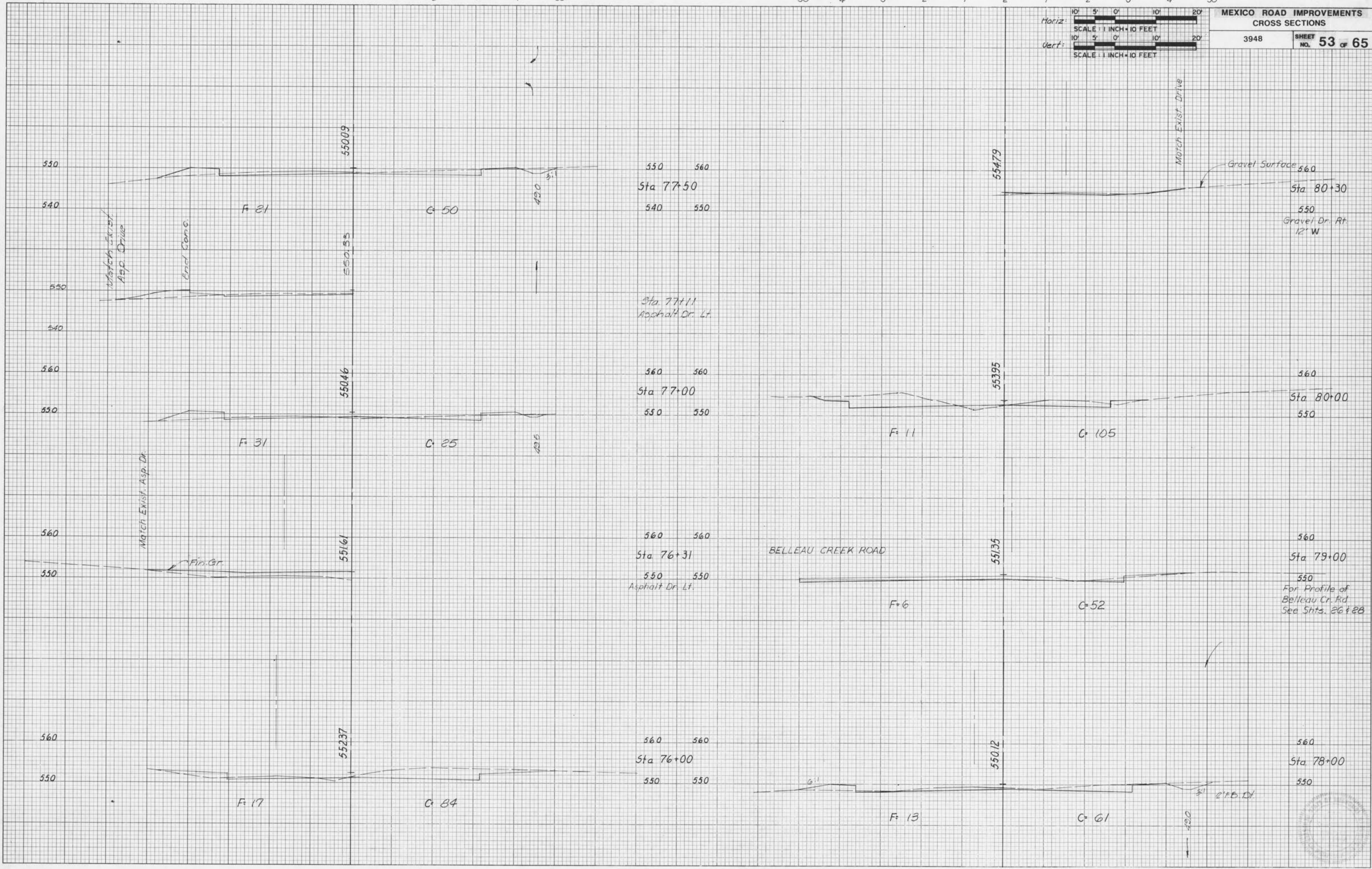
50 4 3 2 1 E 1 2 3 4 50

Horiz: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET
Vert: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET

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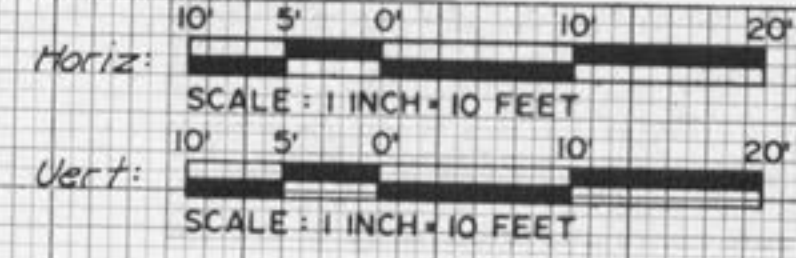
DATE
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SURVEYED
PLOTTED
TEMPERATURE
NOTE BOOK
AREAS CHECKED

DATE
BY
SURVEYED
PLOTTED
TEMPERATURE
NOTE BOOK
AREAS CHECKED

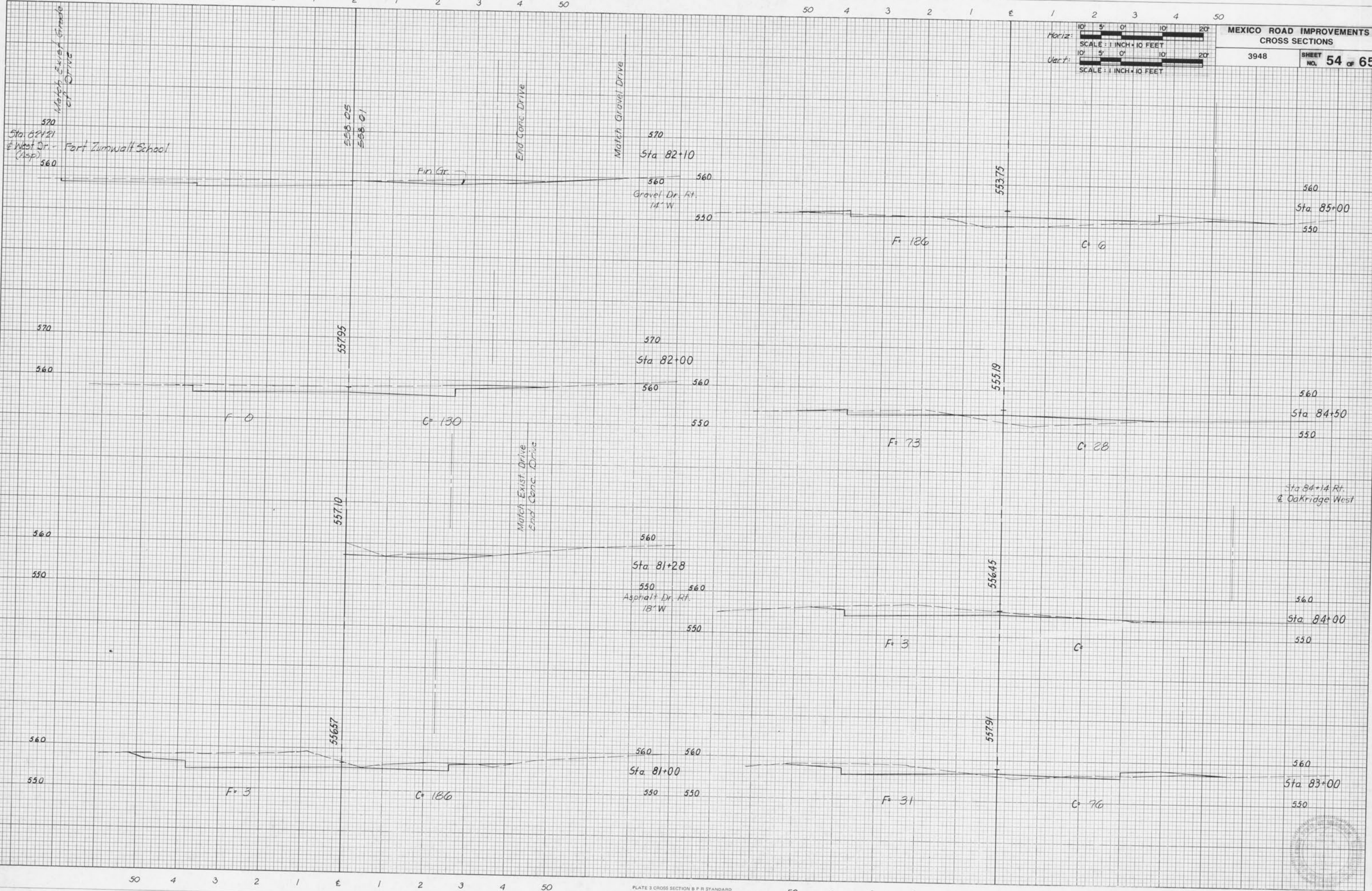


50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50

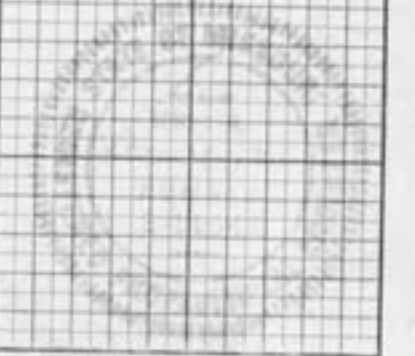


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50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50



50 4 3 2 1 E 1 2 3 4 50

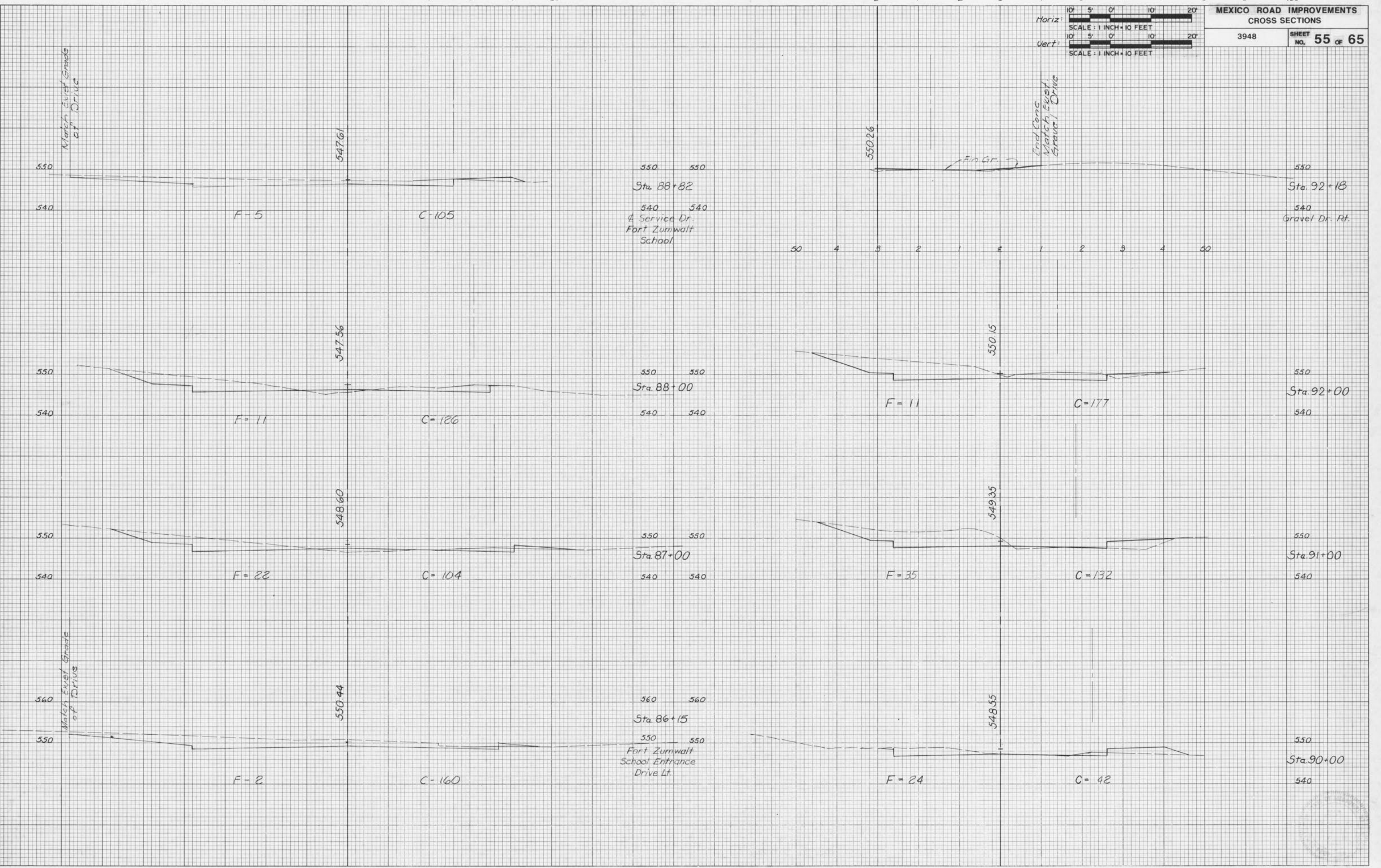
E 1 2 3 4 5 6 7 8 9 100

Horiz: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET
Vert: 10' 5' 0' 10' 20'
SCALE: 1 INCH = 10 FEET

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NOTE BOOK
NO.

DATE
BY
CONVEYED
PLOTTED
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ORIGINAL
SURVEY
NOTE BOOK
NO.

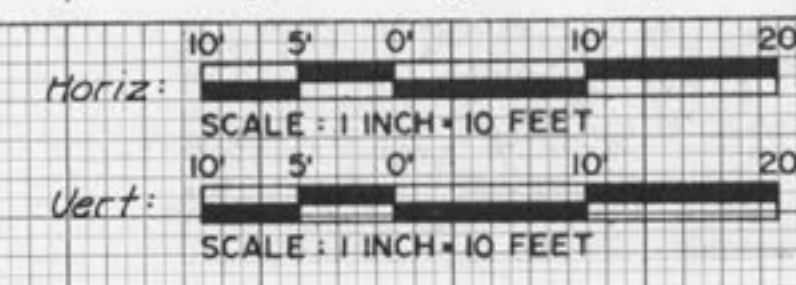


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50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 0 1 2 3 4 50

50 4 3 2 1 0 1 2 3 4 50

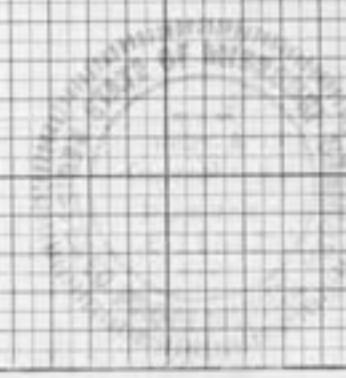
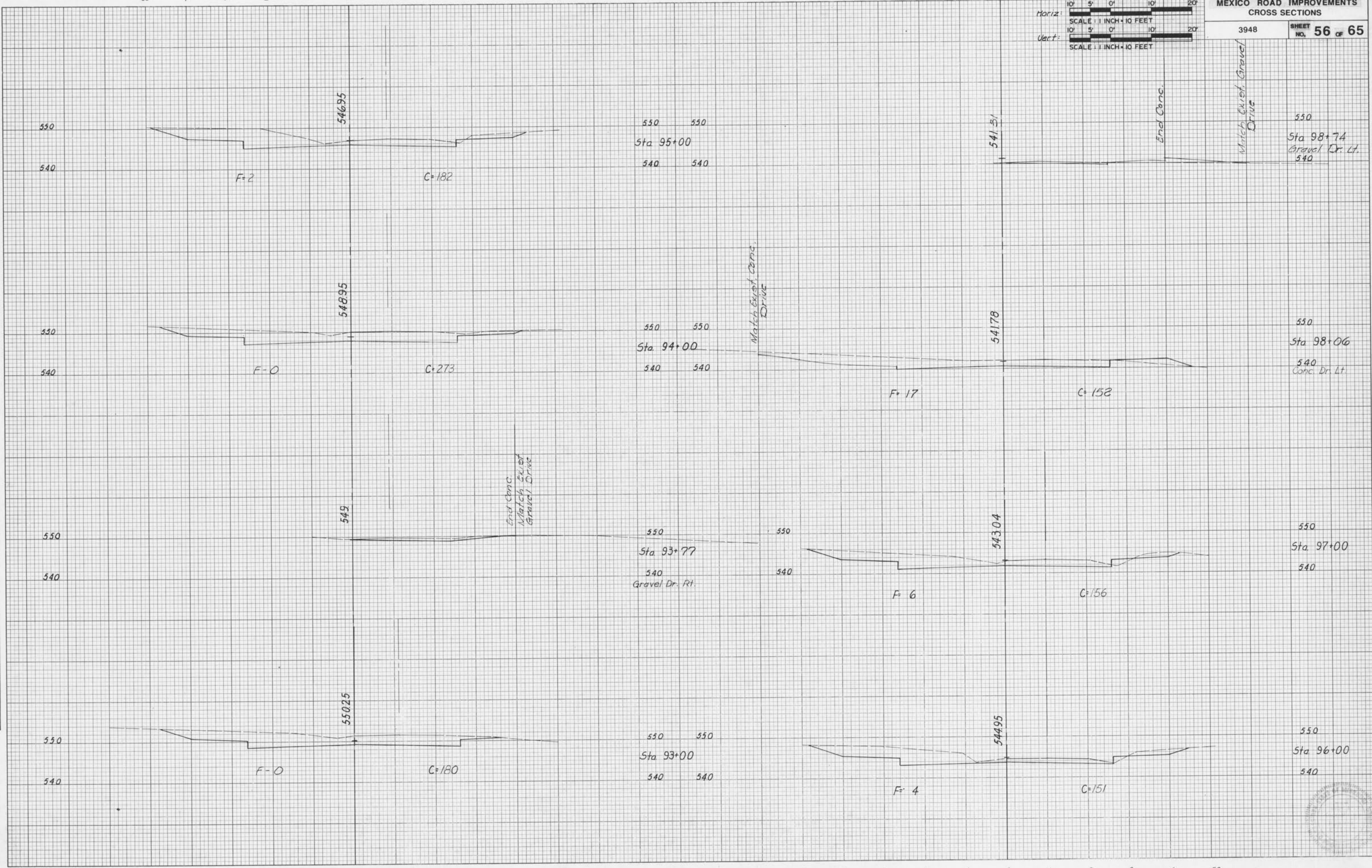


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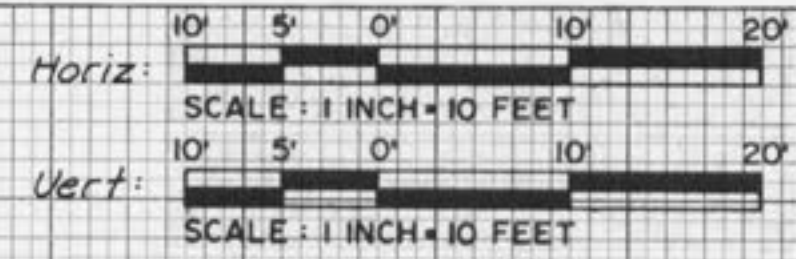
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NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



50 4 3 2 1 E 1 2 3 4 50

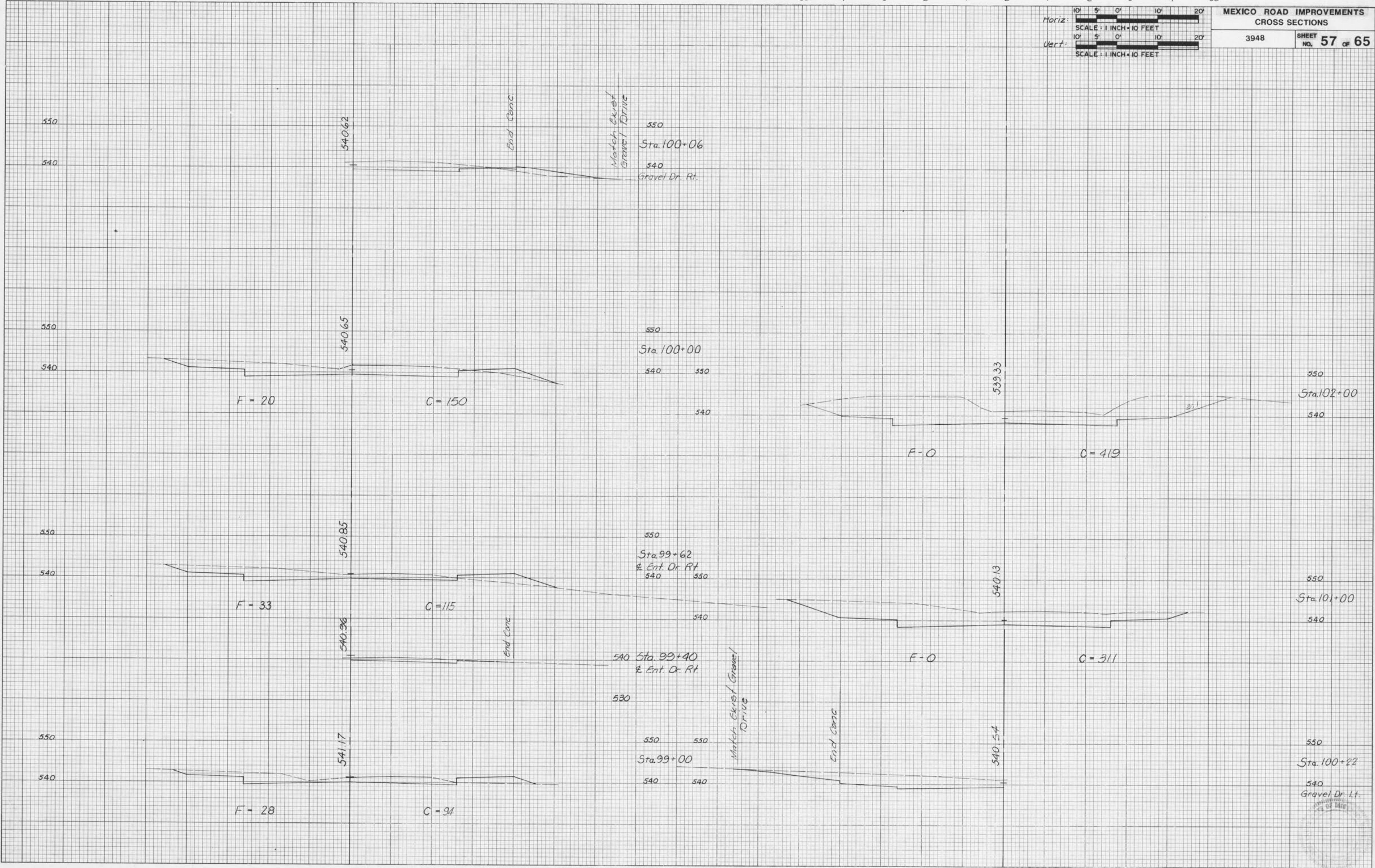
50 4 3 2 1 E 1 2 3 4 50



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INSTRUMENT	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

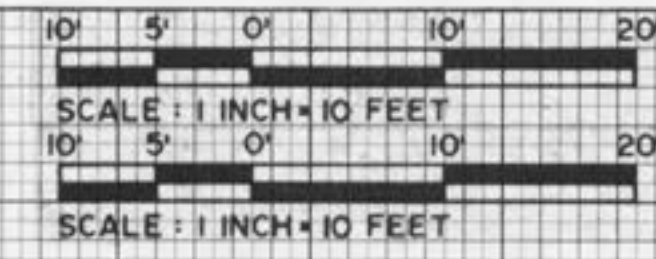
DATE	
BY	
SURVEYED	
PLOTTED	
INSTRUMENT	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



50 4 3 2 1 E 1 2 3 4 50

50 4 3 2 1 E 1 2 3 4 50

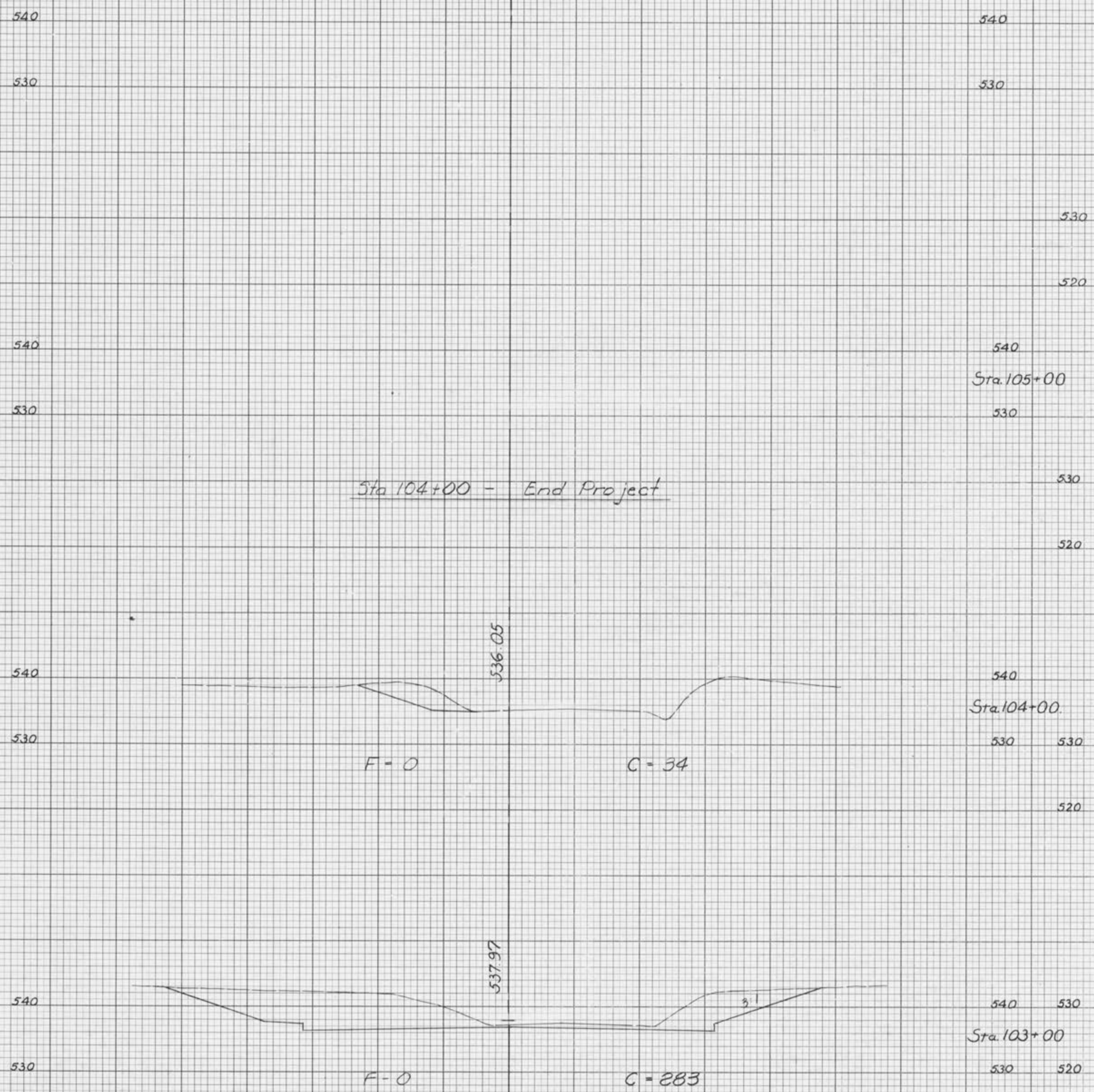
50 4 3 2 1 0 1 2 3 4 50



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TEMPLATE	
AREAS	
AREAS CHECKED	
FINAL SURVEY NOTE BOOK NO.	

DATE	
BY	
SURVEYED	
TEMPLATE	
AREAS	
AREAS CHECKED	
ORIGINAL SURVEY NOTE BOOK NO.	



50 4 3 2 1 0 1 2 3 4 50