CITY OF

ALBUQUERQUE—NEW MEXICO

RELIEF LINE-
SOUTH BROADWAY STORM SEWER

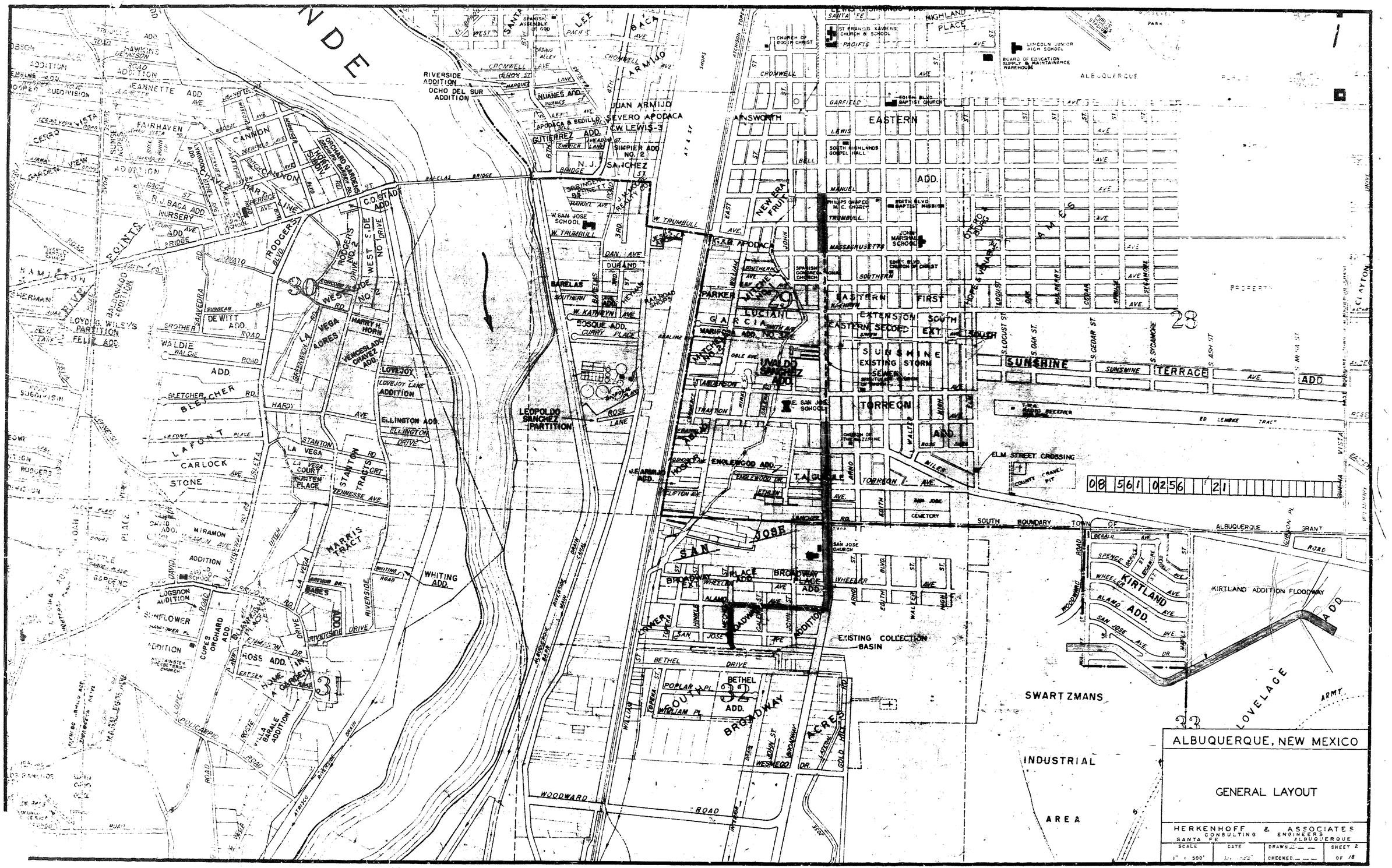
KIRTLAND ADDITION FLOODWAY

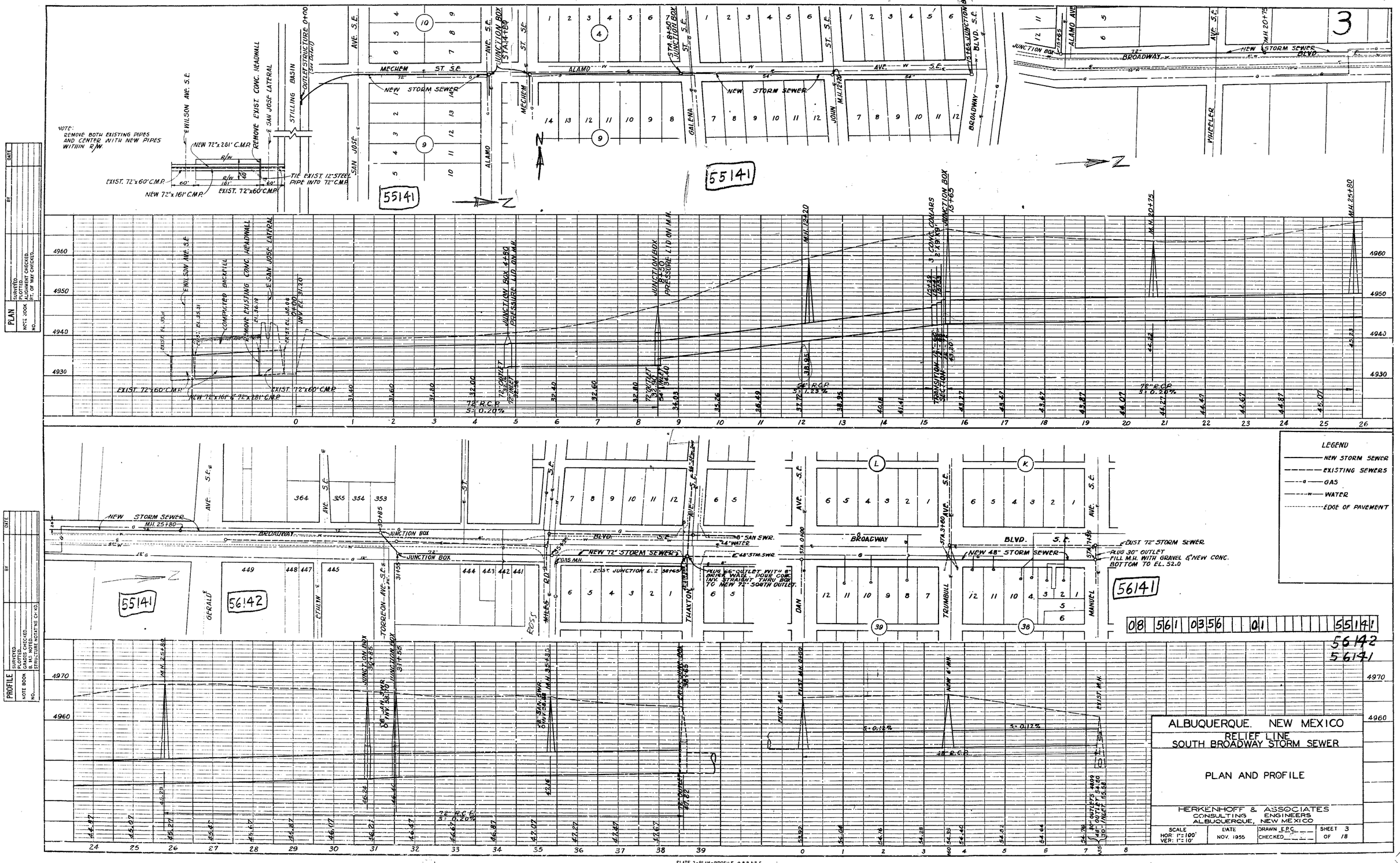
ELM STREET CROSSING

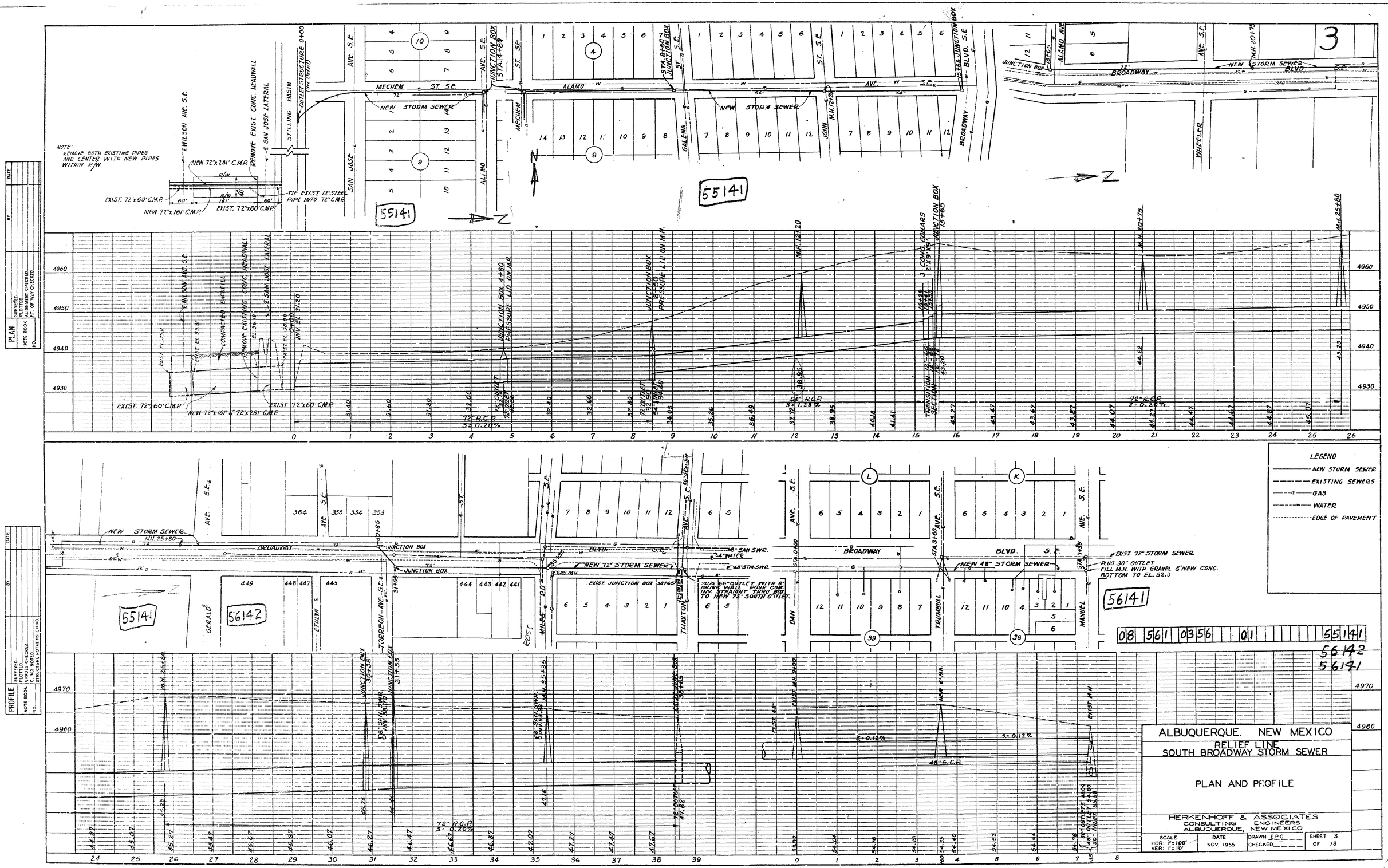
08 561 01 56 20

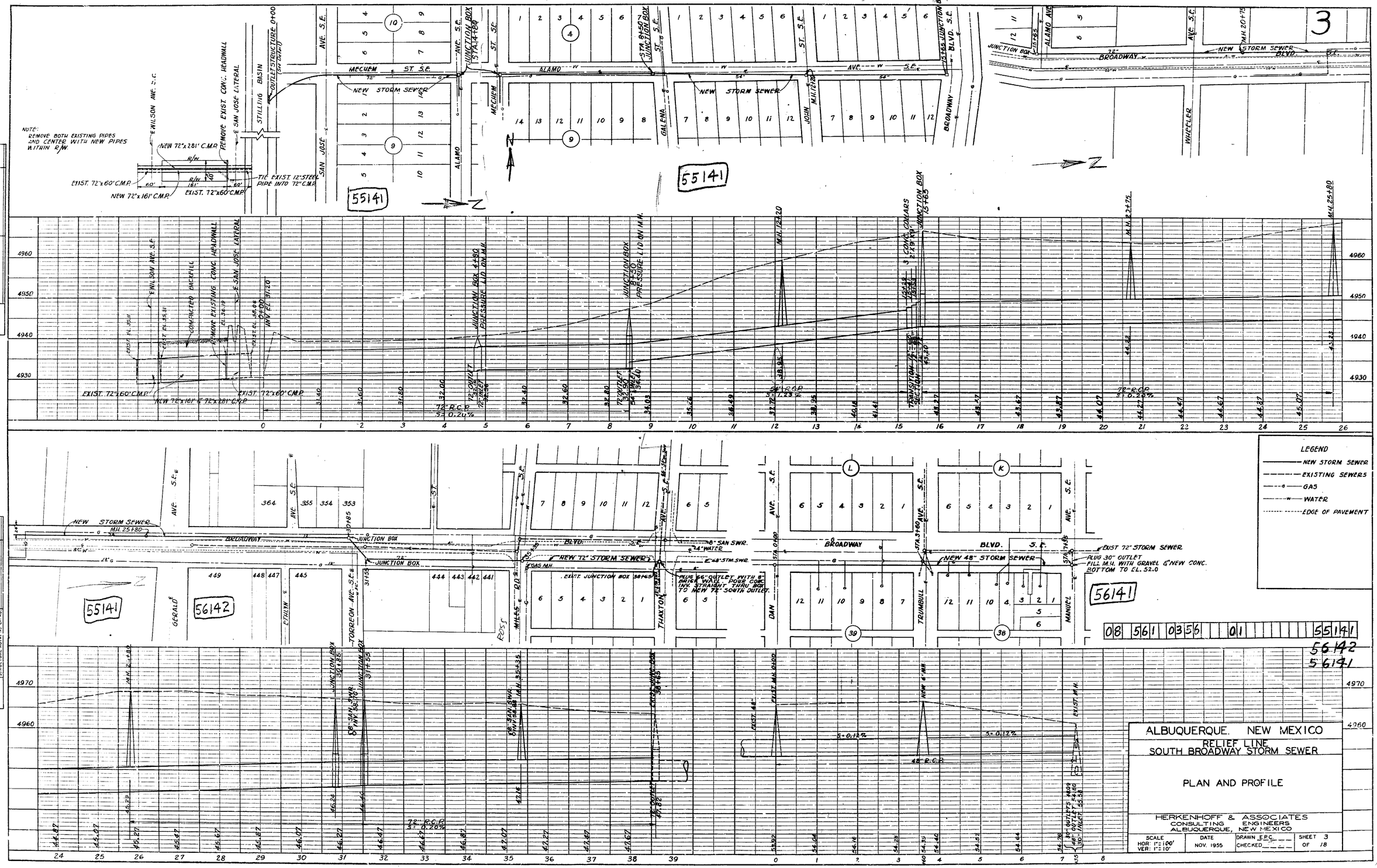
GORDON HERKENHOFF AND ASSOCIATES INC. CONSULTING ENGINEERS

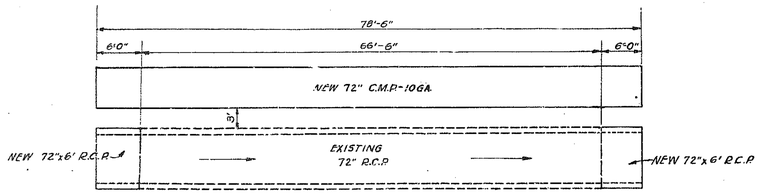
SHT 1 OF 18


ALBUQUERQUE, NEW MEXICO
GENERAL LAYOUT
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE
SCALE 1" = 500'
DATE
DRAWN
CHECKED
SHEET 2 OF 18
08 561 0256 21
RIVERSIDE ADDITION
OCHO DEL SUR ADDITION
JUAN ARMIJO
SEVERO APODACA
CW LEWIS-3
SIMPIER ADD NO. 2
N. J. SANCHEZ
C.O. STADT ADD.
R.J. BACA ADD.
NURSERY
ADD.
RODGERS BLVD.
RODGERS DRIVE NO. 2
WEST SIDE DRIVE NO. 2
WEST SIDE DRIVE NO. 1
LA VEGA ACRES
WENCESLADO CHAVEZ ADD.
HARRY H. HORN
LOVEJOY
LOVEJOY LANE ADDITION
ELLINGTON ADD.
ELLINGTON DRIVE
LEOPOLDO SANCHEZ PARTITION
ROSE LANE
ENGLEWOOD ADD.
T.A. GURULE
SAN JOSE
SAN JOSE CHURCH
SAN JOSE CEMETERY
BROADWAY PLACE ADD.
BROADWAY PLACE ADDITION
LOWER BROADWAY
EXISTING COLLECTION BASIN
BETHEL DRIVE
BETHEL ADD.
SOUTH BROADWAY ACRES
WOODWARD ROAD
ELM STREET CROSSING
COUNTY GRAVEL PIT
SOUTH BOUNDARY TOWN OF ALBUQUERQUE
KIRTLAND ADD.
KIRTLAND ADDITION FLOODWAY
SWARTZMANS
INDUSTRIAL AREA
LOVELACE ADD
ARMY
EASTERN ADD.
EASTERN FIRST EXTENSION
EASTERN SECOND
SOUTH EXT.
SUNSHINE EXISTING STORM SEWER
SUNSHINE TERRACE ADD.
TORREON ADD.
ELEMENTARY SCHOOL
LINCOLN JUNIOR HIGH SCHOOL
BOARD OF EDUCATION SUPPLY & MAINTAINANCE WAREHOUSE
ST FRANCIS XAVIERS CHURCH & SCHOOL
CHURCH OF GOD IN CHRIST
EDITH BLVD. BAPTIST CHURCH
SOUTH HIGHLANDS GOSPEL HALL
PHILIPS CHAPEL M. E. CHURCH
EDITH BLVD. BAPTIST MISSION
JOHN MARSHALL SCHOOL
EDIT. BLVD. CHURCH OF CHRIST
SPANISH CONGREGATIONAL CHURCH
NEW ERA FRUIT
LUCIANI
GARCIA
UVALDO SANCHEZ ADD.
E. SAN JOSE SCHOOL
W. SAN JOSE SCHOOL
W. TRUMBULL
G.A.W. APODACA
BARELAS BRIDGE
RAILROAD SHOPS
ALBUQUERQUE MAIN CANAL
RIVERSIDE DRAIN
ALBUQUERQUE MAIN DRAIN
ARROYO DE LOS PONDEROSAS
ARROYO DE LA VEGA
ARROYO DE LOS PINOS
ARROYO DE LOS PINITOS
ARROYO DE LOS RANCHOS
ARROYO DE LOS CANONES
ARROYO DE LOS CHAMISOS
ARROYO DE LOS CHAVEZ
ARROYO DE LOS GALLINAS
ARROYO DE LOS GRANADOS
ARROYO DE LOS MONTOYAS


NOTE:
REMOVE BOTH EXISTING PIPES AND CENTER WITH NEW PIPES WITHIN R/W
WILSON AVE. S.E.
NEW 72"x281' C.M.P.
REMOVE EXIST. CONC. HEADWALL
SAN JOSE LATERAL
STILLING BASIN
OUTLET STRUCTURE 0+00 (SEE DRAWING)
EXIST. 72"x60' C.M.P.
NEW 72"x161' C.M.P.
TIE EXIST. 12" STEEL PIPE INTO 72" C.M.P.
MECHEM ST. S.E.
NEW STORM SEWER
ALAMO AVE. S.E.
JUNCTION BOX STA. 4+80
JUNCTION BOX STA. 8+50
GALENA ST. S.E.
JOHN ST. S.E.
M.H. 12+20
JUNCTION BOX 15+65
BROADWAY BLVD. S.E.
ALAMO AVE.
JUNCTION BOX 23+45
72" BROADWAY
NEW STORM SEWER BLVD.
M.H. 20+75
WHEELER
55141
56141
56142
JUNCTION BOX
PRESSURE LID ON M.H.
3 CONC. COVERS 2'x3'x8"
TRANSITION 72"-60" SECTION 0+00 TO 3+00
72" R.C.P. S=0.20%
72" R.C.P. S=0.20%
48" R.C.P.
M.H. 25+80
LEGEND
NEW STORM SEWER
EXISTING SEWERS
GAS
WATER
EDGE OF PAVEMENT
BROADWAY BLVD. S.E.
NEW STORM SEWER M.H. 25+80
JUNCTION BOX
NEW 72" STORM SEWER
NEW 48" STORM SEWER
8" SAN SWR.
4" WATER
48" STM. SWR.
GAS MH.
EXIST. JUNCTION L.I. 38+65
PLUG 66" OUTLET WITH 8" BRICK WALL. POUR CONC. INV. STRAIGHT THRU BOX TO NEW 72" SOUTH OUTLET.
EXIST 72" STORM SEWER
PLUG 30" OUTLET
FILL M.H. WITH GRAVEL & NEW CONC. BOTTOM TO EL. 52.0
GERALD
ETHAN
TORREON AVE. S.E.
MILES RD.
THAXTON
DAN
TRUMBULL
MANUEL
EXIST. M.H. 0+00
NEW 6" M.H.
EXIST. M.H.
S=0.12%
48" R.C.P.
ALBUQUERQUE, NEW MEXICO
RELIEF LINE
SOUTH BROADWAY STORM SEWER
PLAN AND PROFILE
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO
SCALE HOR: 1"=100' VER: 1"=10'
DATE NOV. 1955
DRAWN E.P.C.
CHECKED
SHEET 3 OF 18
PLAN
PROFILE
SURVEYED
PLOTTED
ALIGNMENT CHECKED
PT. OF WAY CHECKED
GRADES CHECKED
BENCH MARKS
STRUCTURE NOTATIONS CHKD.
NOTE BOOK
NO.
DATE
BY
PLATE 7-PLAN-PROFILE O.P.R.A.R.E.
CHARLES BRUNING COMPANY, INC.

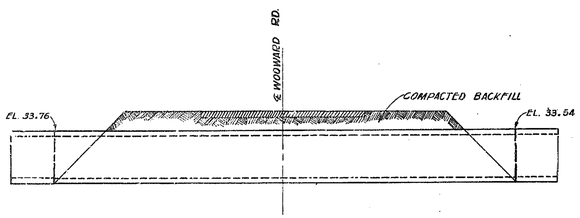

NOTE:
REMOVE BOTH EXISTING PIPES AND CENTER WITH NEW PIPES WITHIN R/W
NEW 72"x281' C.M.P.
REMOVE EXIST. CONC. HEADWALL
TIE EXIST. 12" STEEL PIPE INTO 72" C.M.P.
EXIST. 72"x60' C.M.P.
NEW 72"x161' C.M.P.
E. WILSON AVE. S.E.
E. SAN JOSE LATERAL
STILLING BASIN
OUTLET STRUCTURE 0+00 (SEE DETAIL)
MECHEM ST. S.E.
ALAMO AVE. S.E.
NEW STORM SEWER
JUNCTION BOX STA. 4+80
STA. 8+50 JUNCTION BOX
JUNCTION BOX 15+65
BROADWAY BLVD. S.E.
GALENA
JOHN
WHEELER
MH. 20+75
MH. 25+80
55141
56142
56141
JUNCTION BOX 8+50 PRESSURE LID ON M.H.
JUNCTION BOX 4+80 PRESSURE LID ON M.H.
3' CONC. COLLARS
TRANSITION SECTION
72" R.C.P. S=0.20%
72" R.C.P. S=0.26%
48" R.C.P. S=1.23%
EXIST. 72"x60' C.M.P.
NEW 72"x161' & 72"x281' C.M.P.
LEGEND
NEW STORM SEWER
EXISTING SEWERS
GAS
WATER
EDGE OF PAVEMENT
NEW STORM SEWER
JUNCTION BOX
NEW 72" STORM SEWER
NEW 48" STORM SEWER
8" SAN SWR.
4" WATER
48" STM. SWR.
GAS MH.
EXIST. JUNCTION BOX
PLUG 66" OUTLET WITH 8" BRICK WALL POUR CONC. INK STRAIGHT THRU BOX TO NEW 72" SOUTH OUTLET.
EXIST. 72" STORM SEWER
PLUG 30" OUTLET FILL M.H. WITH GRAVEL & NEW CONC. BOTTOM TO EL. 52.0
GERALD
ETHUN
TORREON AVE. S.E.
MILES RD. S.E.
THAXTON
DAN
TRUMBULL
MANUEL
08 5611 0356 01 55141
56142
56141
S=0.12%
48" R.C.P.
EXIST. M.H.
ALBUQUERQUE, NEW MEXICO
RELIEF LINE
SOUTH BROADWAY STORM SEWER
PLAN AND PROFILE
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO
SCALE HOR. 1"=100' VER. 1"=10'
DATE NOV. 1955
DRAWN E.P.C.
CHECKED
SHEET 3 OF 18
PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
GRADES CHECKED
NOTE BOOK
NO.
PROFILE
STRUCTURE NOTATIONS CHKD.
DATE
BY
PLATE 2-PLAN-PROFILE O.P.R.&R.T.
PEPPLES DRAWING COMPANY INC.


NOTE:
REMOVE BOTH EXISTING PIPES AND CENTER WITH NEW PIPES WITHIN R/W.
NEW 72"x281' C.M.P.
EXIST. 72"x60' C.M.P.
NEW 72"x161' C.M.P.
TIE EXIST. 12" STEEL PIPE INTO 72" C.M.P.
REMOVE EXIST CONC. HEADWALL
STILLING BASIN
OUTLET STRUCTURE 0+00
NEW STORM SEWER
MECHEM ST. S.E.
ALAMO AVE. S.E.
SAN JOSE
JUNCTION BOX
GALENA
JOHN
BROADWAY
ALAMO AVE.
WHEELER
NEW STORM SEWER BLVD.
55141
56141
56142
LEGEND
NEW STORM SEWER
EXISTING SEWERS
GAS
WATER
EDGE OF PAVEMENT
PLUG 66" OUTLET WITH 8" BRICK WALL, POUR CONC. INK STRAIGHT THRU BOX TO NEW 72" SOUTH OUTLET.
EXIST. JUNCTION BOX
GAS MH.
NEW 72" STORM SEWER
NEW 48" STORM SEWER
8" SAN SWR.
2" WATER
48" STM. SWR.
EXIST 72" STORM SEWER
PLUG 30" OUTLET
FILL M.H. WITH GRAVEL & NEW CONC. BOTTOM TO EL. 52.0
08 5611 03 56 01 551141
56142
56141
PLAN
PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
STRUCTURE NOTES CHECKED
ALBUQUERQUE, NEW MEXICO
RELIEF LINE
SOUTH BROADWAY STORM SEWER
PLAN AND PROFILE
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO
SCALE HOR: 1"=100' VER: 1"=10'
DATE NOV. 1955
DRAWN E.P.C.
CHECKED
SHEET 3 OF 18
PLATE 2-PLAN-PROFILE O.P.P.A.R.E.
CHARLES BRUNING COMPANY, INC.



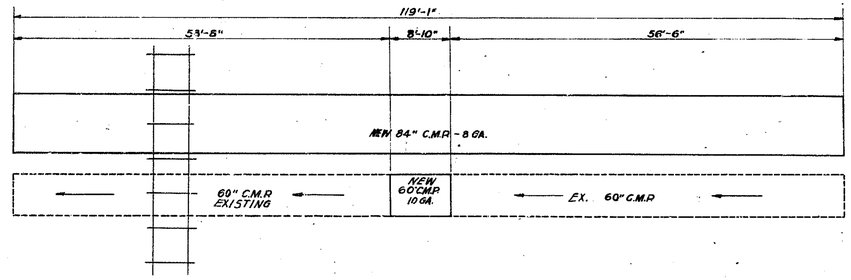
PLAN
SCALE: 1" = 10'

NOTE:
REMOVE, CLEAN JOINTS, AND RE-LAY EXIST. 72" R.C.P. TO NEW ALIGNMENT 8' WEST AND ADD 2-6' JOINTS.

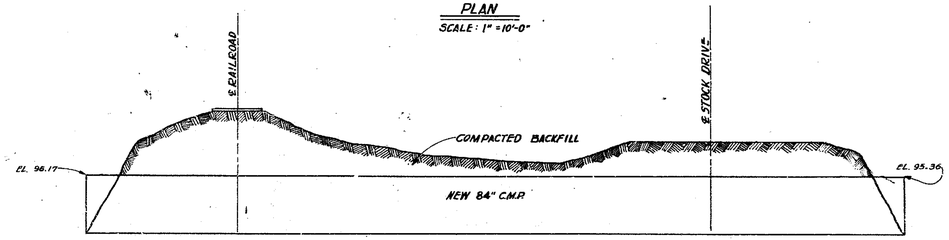


ELEVATION
SCALE: 1" = 10'

WOODWARD ROAD CROSSING



PLAN
SCALE: 1" = 10'-0"



ELEVATION
SCALE: 1" = 10'-0"

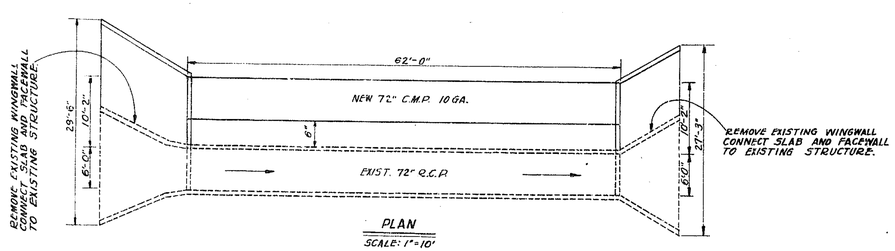
STOCK DRIVE AND RAILROAD CROSSING

STEEL SCHEDULE FOR 8'-2" x 8'-2" CONC. BOX JUNCTION

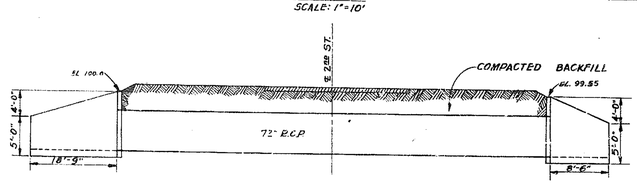
NUMBER	BAR NAME	SIZE	LENGTH	STRAIGHT	BENT SHAPE	A	B	C	LOCATION	LIN. FT.
25	407-2	½"ϕ	7'-2"	✓					WALLS	179'-2"
13	407-9	½"ϕ	7'-9"	✓					WALLS	100'-9"
2	0423B	½"ϕ	23'-8"		A	7'			WALLS	47'-4"
2	0422-1	½"ϕ	22'-1"		A	6.5'			WALLS	44'-2"
22	408-9	½"ϕ	8'-9"	✓					FLOOR	192'-6"
4	403-0	½"ϕ	3'-0"	✓					ROOF	12'-0"
5	407-9	½"ϕ	7'-9"						ROOF	38'-9"

STEEL SCHEDULE FOR STANDARD HEADWALL

NUMBER	BAR NAME	SIZE	LENGTH	STRAIGHT	BENT SHAPE	A	B	C	LOCATION	LIN. FT.
12	NS&FS ∠ 411-6	½"ϕ	11'-6"		B A	6.5'	5'0"	0	FACE WALL AND T. AND B. OF SLAB	138'-0"
4	NS&FS 0423-8	½"ϕ	23'-8"		A	7'			FACE WALL	94'-8"
4	NS&FS L 411-0	½"ϕ	11'0"		B A	10'	1'	5'	FACE WALL & WING WALL	44'-0"
12	NS&FS L 413-0	½"ϕ	13'-0"		B A	10'	3'	0	FACE WALL & WING WALL	156'-0"
2	402-0	½"ϕ	2'-0"	✓					WING WALL	4'-0"
2	404-0	½"ϕ	4'0"	✓					WING WALL	8'-0"
2	405-0	½"ϕ	5'-0"	✓					WING WALL	10'-0"
2	407-0	½"ϕ	7'-0"	✓					WING WALL	14'-0"
8	408-0	½"ϕ	8'-0"	✓					WING WALL	64'-0"
6	∠ 406-6	½"ϕ	6'-6"		B A	3.5'	3'	0	WING WALL & B. OF SLAB	39'-0"
6	∠ 408-0	½"ϕ	8'-0"		B A	5'	3'	0	WING WALL & B. OF SLAB	48'-0"
6	∠ 410-0	½"ϕ	10'-0"		B A	7'	3'	0	WING WALL & B. OF SLAB	60'-0"
3	415-0	½"ϕ	15'-0"	✓					T. OF SLAB	45'-0"
3	417-0	½"ϕ	17'-0"	✓					T. OF SLAB	51'-0"
2	421-0	½"ϕ	21'-0"	✓					T. OF SLAB	42'-0"
6	408-0	½"ϕ	8'-0"	✓					B. OF SLAB	48'-0"
2	405-0	½"ϕ	5'-0"	✓					T. OF SLAB	10'-0"
2	403-0	½"ϕ	3'-0"	✓					T. OF SLAB	6'-0"
2	402-0	½"ϕ	2'-0"	✓					T. OF SLAB	4'-0"
16	407-0	½"ϕ	7'-0"	✓					T. OF SLAB	112'-0"
6	403-0	½"ϕ	3'-0"	✓					T. & B. OF SLAB	18'-0"
20	401-6	½"ϕ	1'-6"	✓					FACE WALL	30'-6"



PLAN
SCALE: 1" = 10'



ELEVATION
SCALE: 1" = 10'

INTERSECTION OF SAN JOSE DRAIN AND S. 2ND STREET

08 5611 04456 10

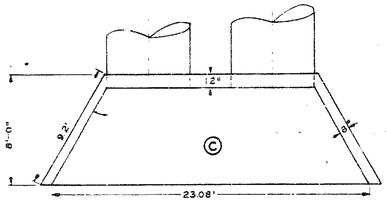
ALBUQUERQUE, NEW MEXICO

SOUTH BROADWAY STORM SEWER

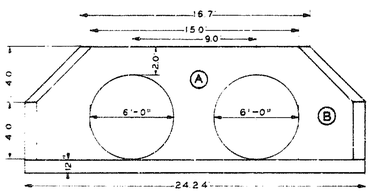
SAN JOSE DRAIN CROSSINGS

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

SCALE	DATE	DRAWN E.P.C.	SHEET 4
AS SHOWN	DEC. 1955	CHECKED	OF 18



PLAN
SCALE = 1" = 5'-0"

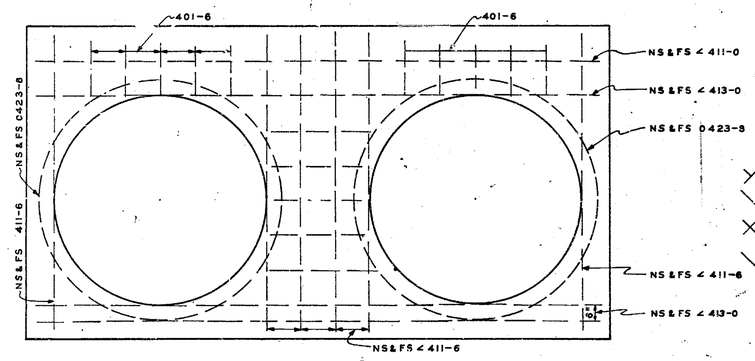


ELEVATION
SCALE = 1" = 5'-0"

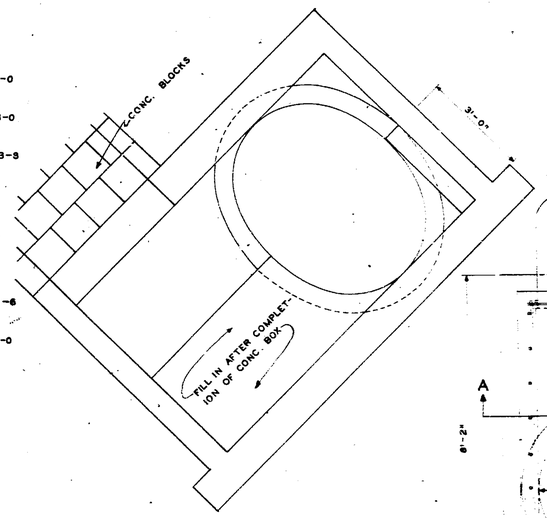
STANDARD HEADWALL

NOTE

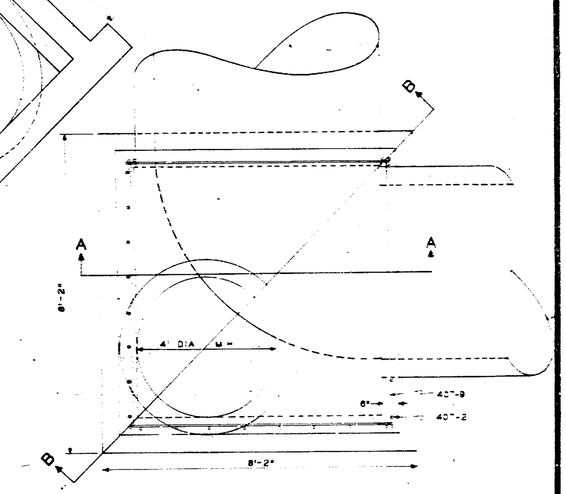
INLET STILLING BASIN HEADWALL TO BE SIMILAR TO STANDARD HEADWALL EXCEPT CHANGE INLET PIPES TO 48" R.C.P. AND INCREASE STEEL FOR FACE WALL



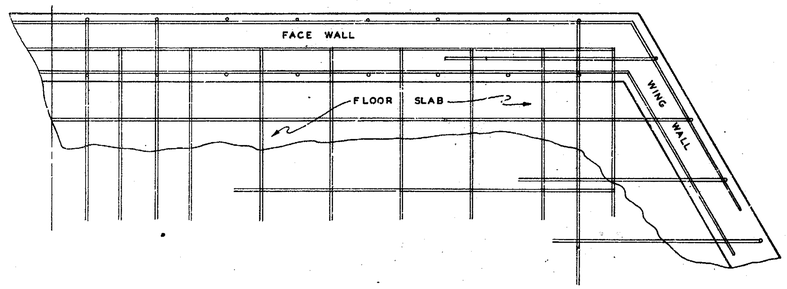
SECTION Ⓐ
SCALE = 1" = 2'-0"



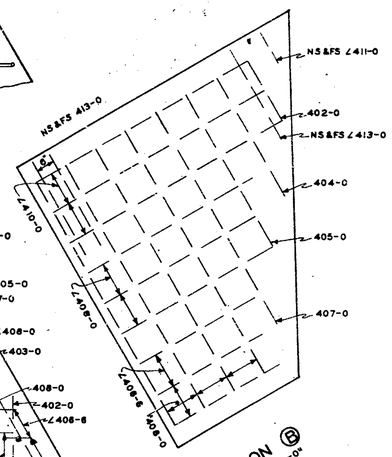
SECTION B-B
SCALE = 1/2" = 1'-0"



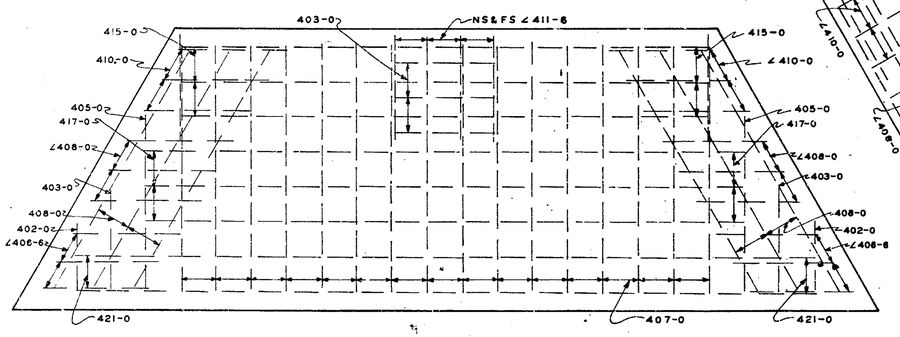
PLAN
SCALE = 1/2" = 1'-0"



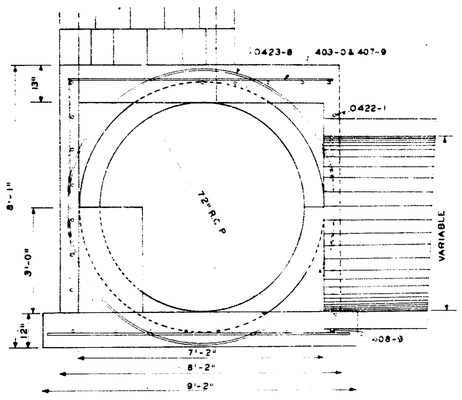
STEEL DETAIL SECTION
SCALE = 1" = 1'-0"



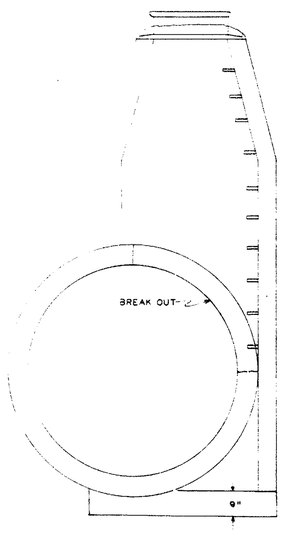
SECTION Ⓑ
SCALE = 1" = 2'-0"



SECTION Ⓒ
SCALE = 1" = 2'-0"



SECTION A-A
SCALE = 1/2" = 1'-0"
8'-2" X 8'-2" CONC. BOX JUNCTION



MANHOLE
4' DIA.
SCALE = 1/2" = 1'-0"

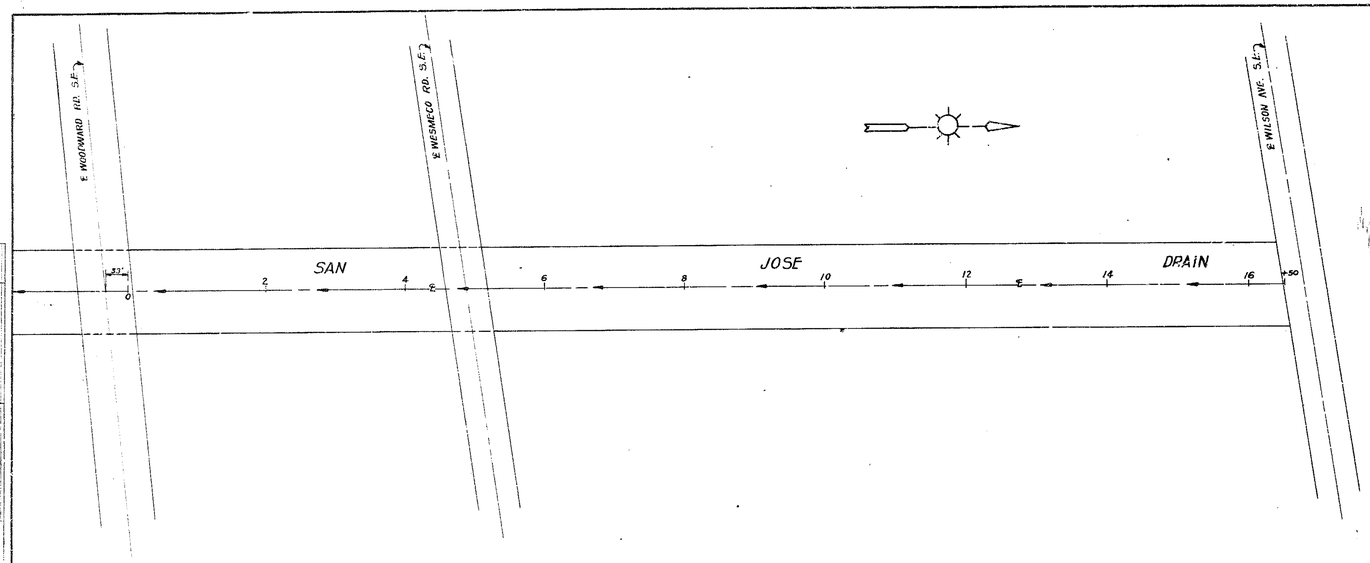
NOTE:
FOR REINFORCING SCHEDULES SEE SHEET NO. 5

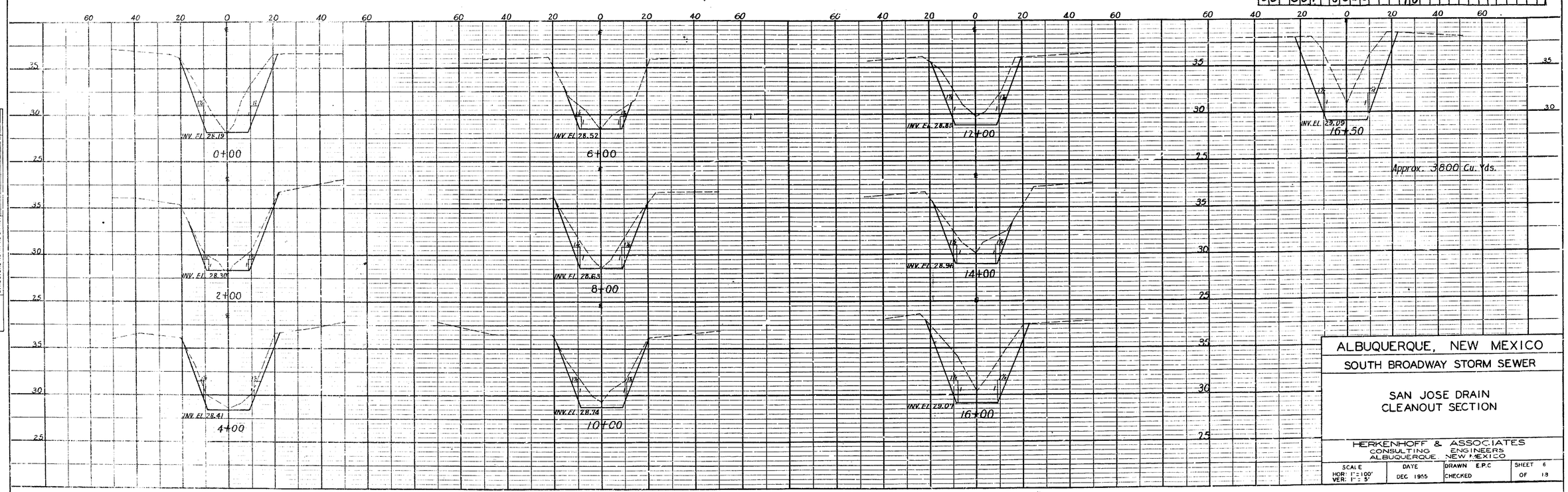
08 561 0556 10

ALBUQUERQUE, NEW MEXICO			
RELIEF LINE SOUTH BROADWAY STORM SEWER			
STORM SEWER DETAILS			
HERKENHOFF & ASSOCIATES CONSULTING ENGINEERS SANTA FE ALBUQUERQUE			
SCALE AS SHOWN	DATE NOVEMBER 1955	DRAWN CHECKED	SHEET 5 OF 18

FED. ROAD DIV. NO.	STATE		FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	NEW MEXICO				

08 561 0656 10





PLAN	SURVEYED		
	PLOTTED		
NOTE BOOK	ALIGNMENT CHECKED		
NO.	PT. OF INT. CHECKED		
		BY	DATE

PROFILE	SURVEYED		
	PLOT. CD.		
NOTE BOOK	GRADES CHECKED		
	BM. & ELEVATIONS		
NO.	STRUCTURE NOTATIONS CH. NO.	BY	DATE

ALBUQUERQUE, NEW MEXICO

SOUTH BROADWAY STORM SEWER

SAN JOSE DRAIN
CLEANOUT SECTION

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

SCALE	DATE	DRAWN E.P.C	SHEET 6
HOR: 1" = 100' VER: 1" = 5'	DEC 1955	CHECKED	OF 13

PLATE 1—PLAN-PROFILE O. P. R. & R. E. STANDARD
THE FREDERICK POST CO., Chicago

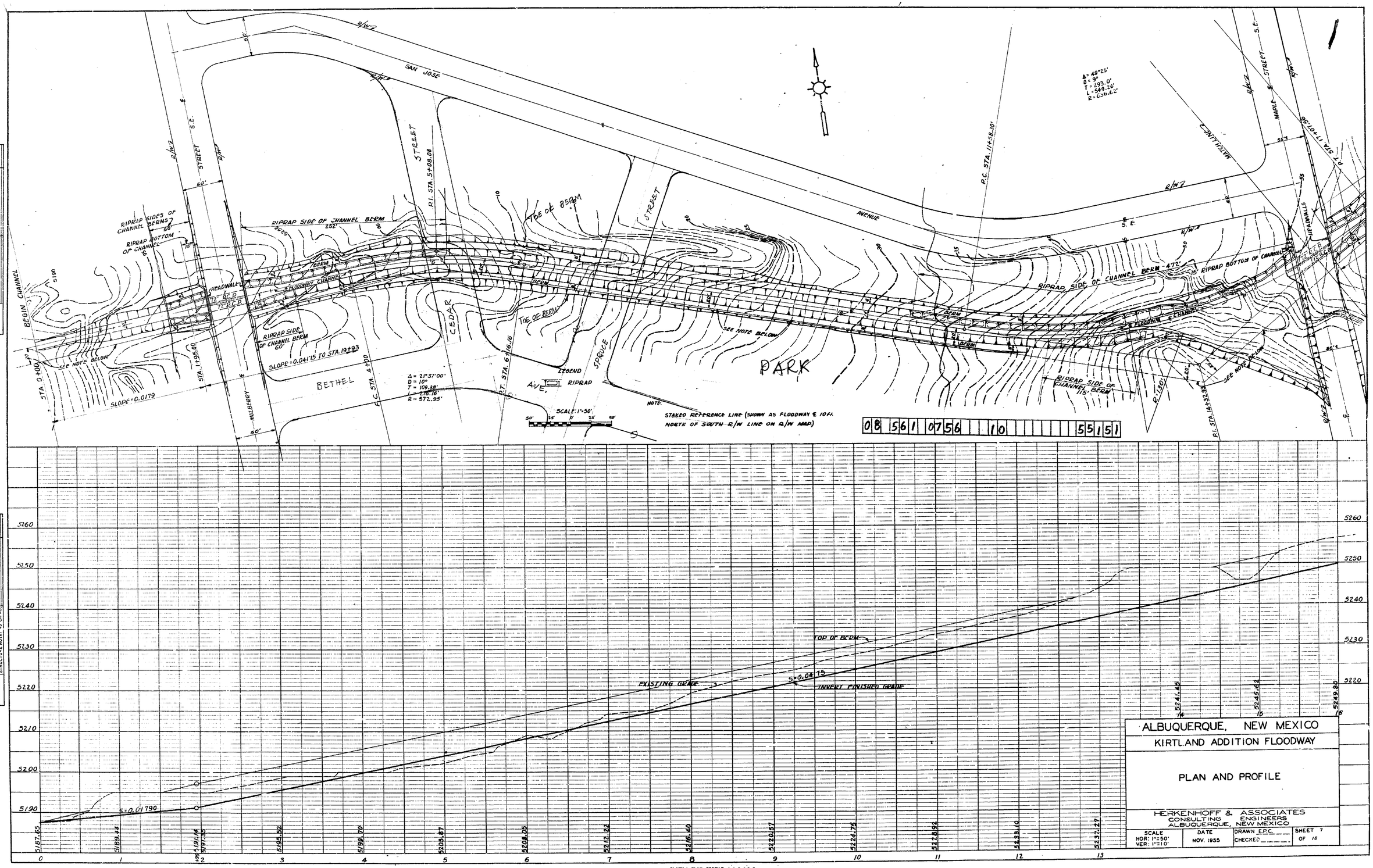
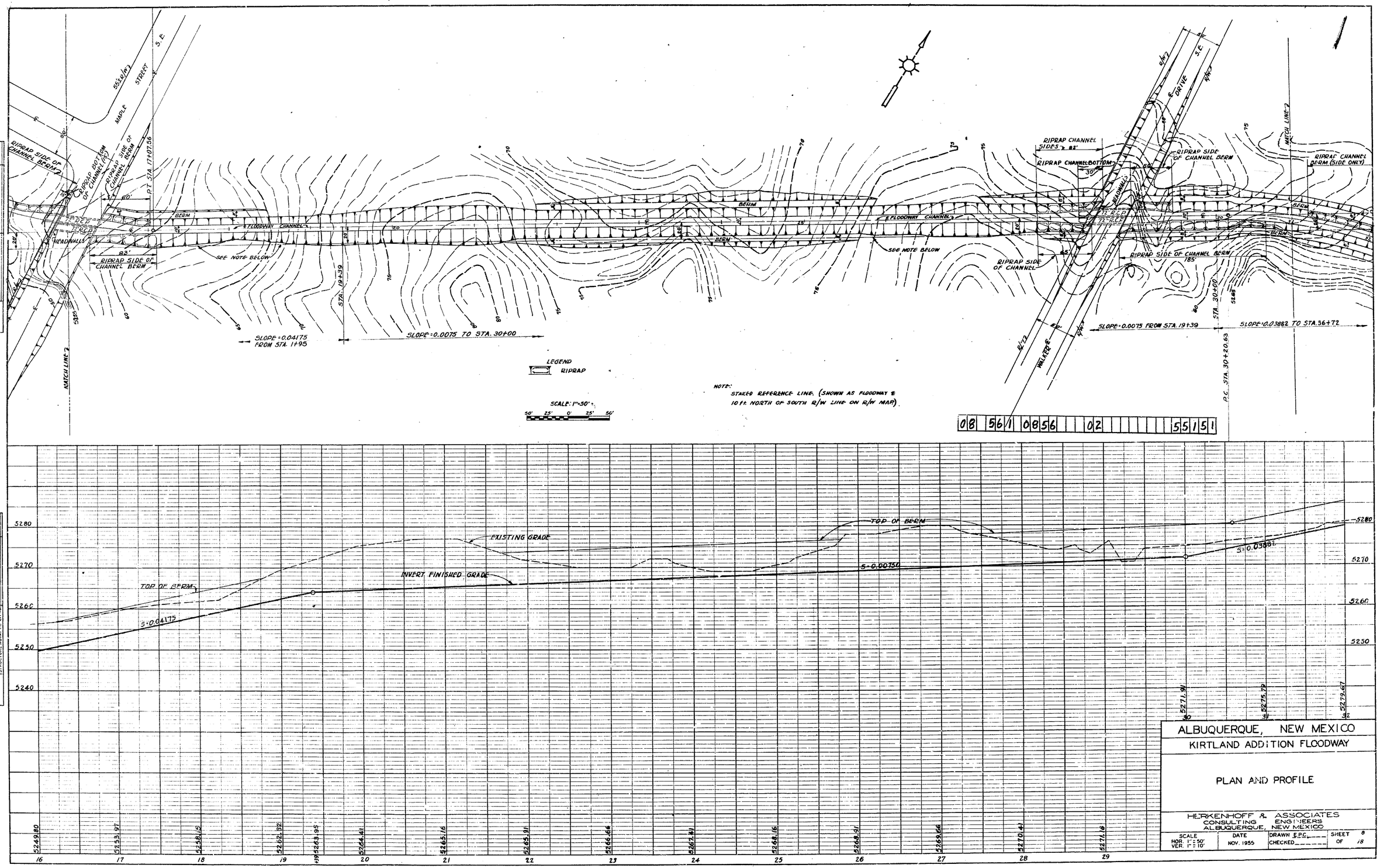


PLATE 1—PLAN—PROFILE O. P. R. & R. E.
CHARLES BRUNING COMPANY, INC.



ALBUQUERQUE, NEW MEXICO

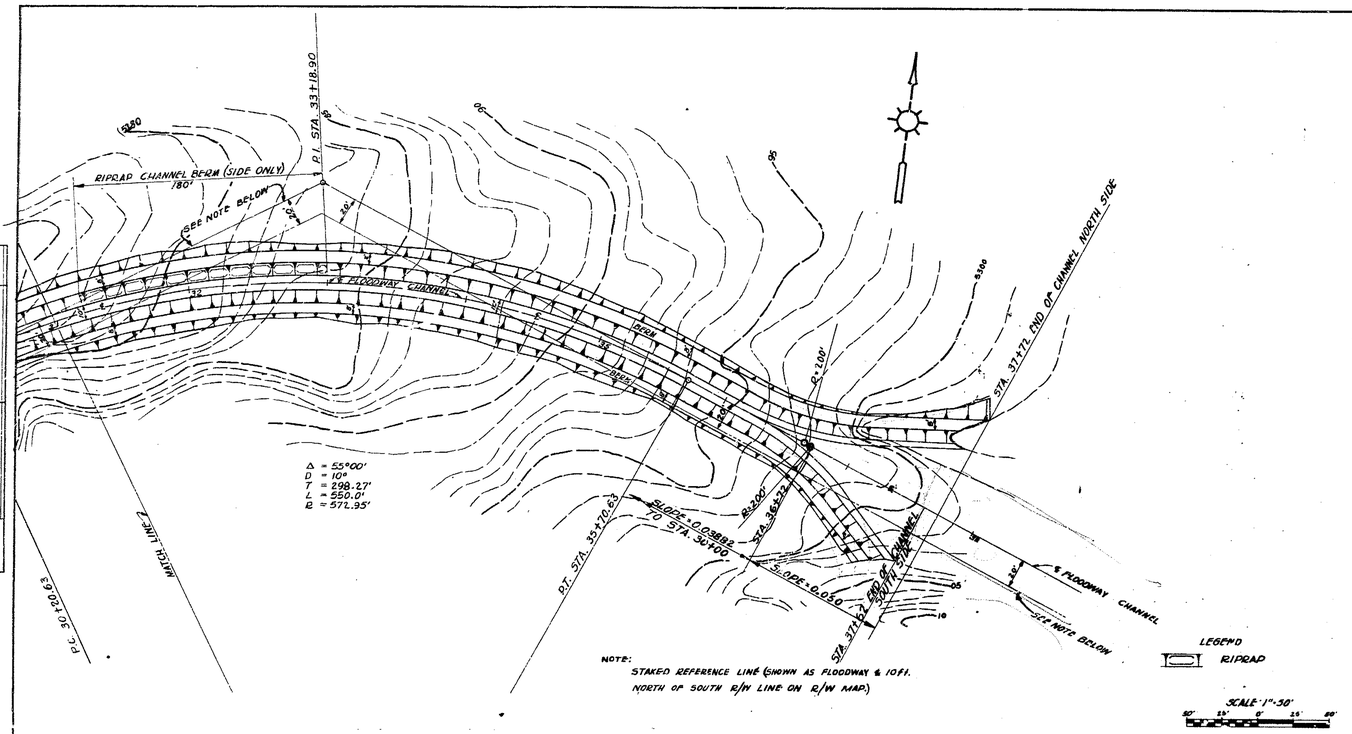
KIRTLAND ADDITION FLOODWAY

PLAN AND PROFILE

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

SCALE	DATE	DRAWN EPG	SHEET 8
HOR. 1" = 50' VER. 1" = 10'	NOV. 1955	CHECKED	OF 18

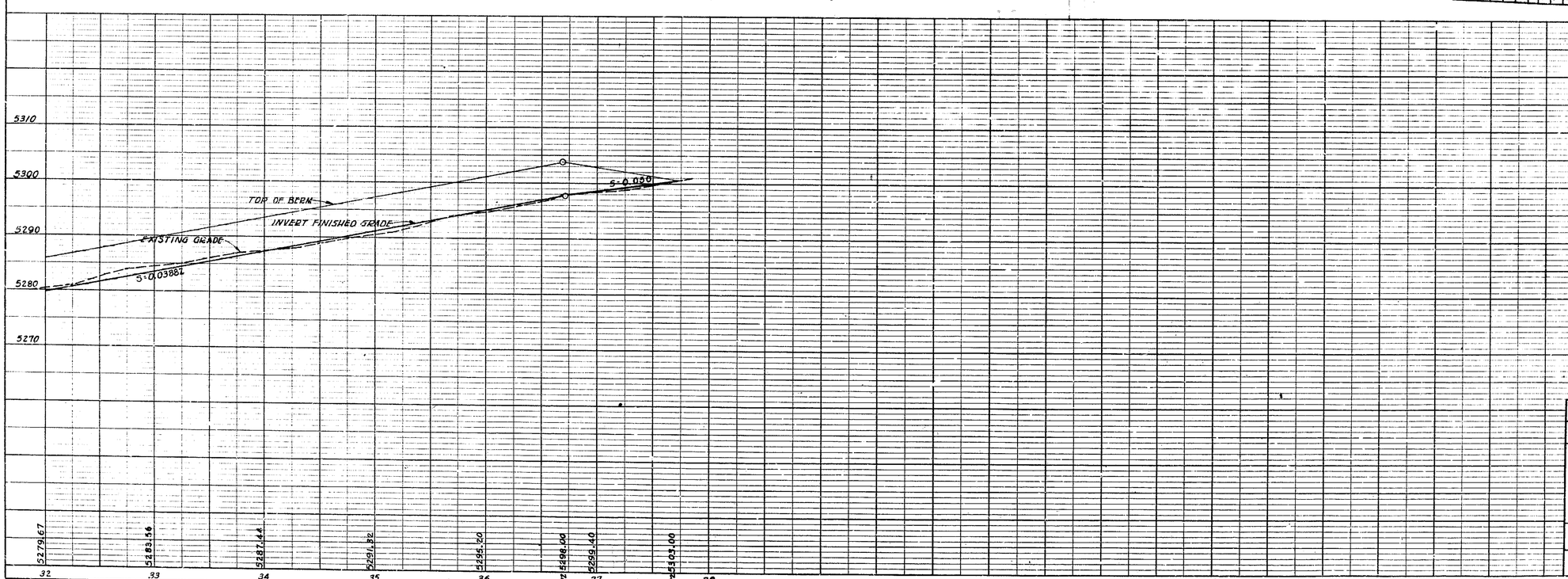
PLATE 1—PLAN—PROFILE O. P. R. & R. E.
CHARLES SRUNING COMPANY, INC.



NOTE:
STAKED REFERENCE LINE (SHOWN AS FLOODWAY & 10 ft. NORTH OF SOUTH R/W LINE ON R/W MAP.)

DB 561 0956 02 55151

PLAN		BY	DATE
NOTE BOOK NO.	SURVEYED.		
	PLOTTED.		
	ALIGNMENT CHECKED.		
	RE-DRAWN CHECKED.		



PROFILE		BY	DATE
NOTE BOOK NO.	SURVEYED.		
	PLOTTED.		
	GRADES CHECKED.		
	B. M.'S NOTED.		
	STRUCTURE NOTES MS. CH. & C.		

ALBUQUERQUE, NEW MEXICO

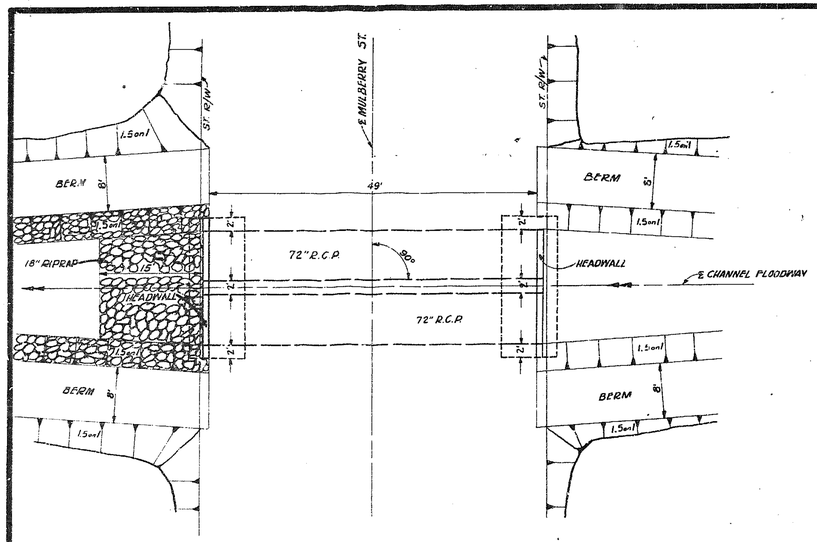
KIRTLAND ADDITION FLOODWAY

PLAN AND PROFILE

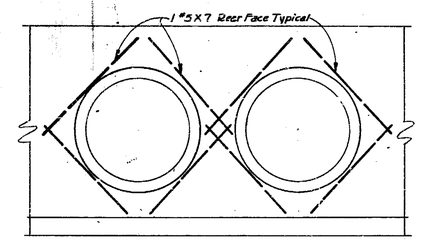
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

SCALE	DATE	DRAWN E.P.C.	SHEET 9
HOR. 1"=50' VER. 1"=10'	NOV. 1955	CHECKED	OF 18

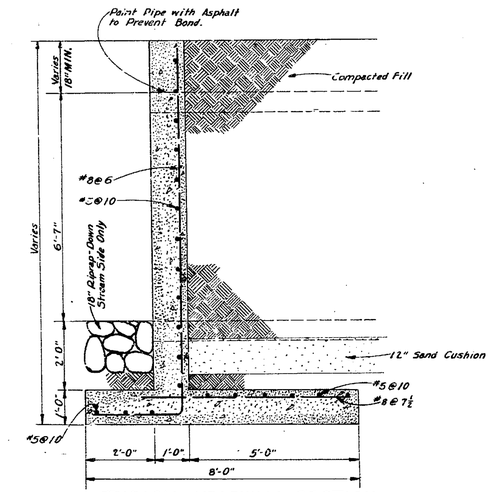
PLATE 1—PLAN—PROFILE O. P. R. & R. E.
CHARLES BRUNING COMPANY, INC.



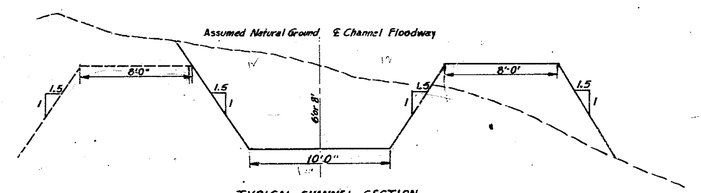
CROSSING AT MULBERRY ST
SCALE: 1" = 10'



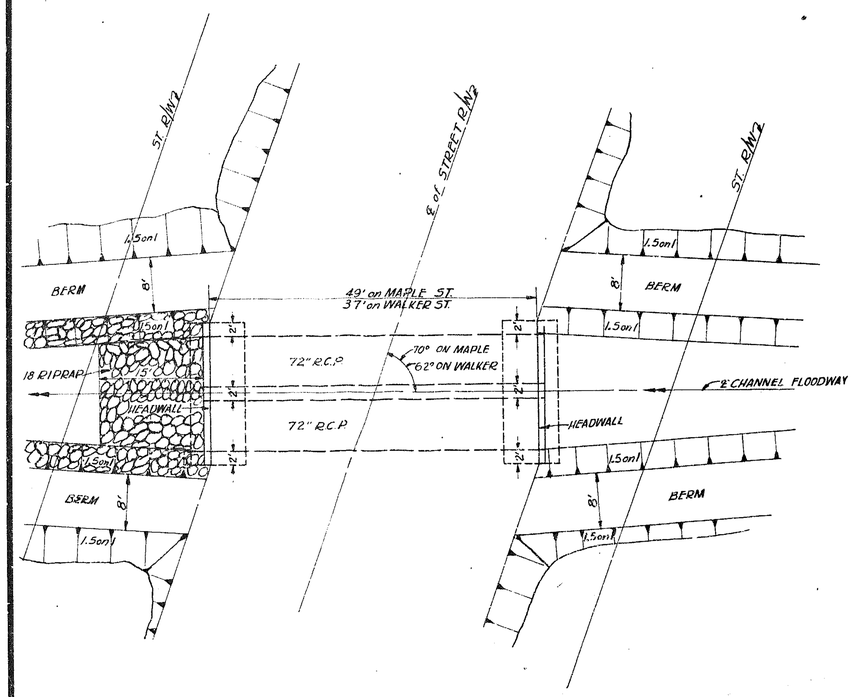
ADDITIONAL REINFORCING
SCALE: ¼" = 1'0"



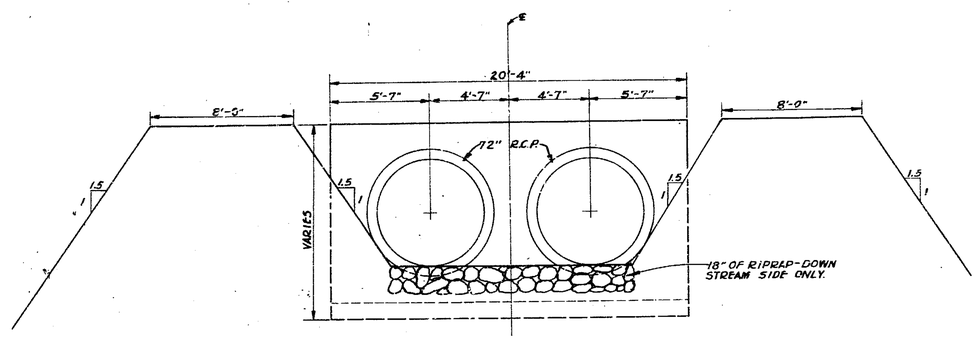
TYPICAL HEADWALL SECTION
SCALE: ¼" = 1'0"



TYPICAL CHANNEL SECTION
SCALE: 1" = 5'



CROSSING AT MAPLE & WALKER STS.
NOT TO SCALE



ELEVATION
SCALE: ¼" = 1'

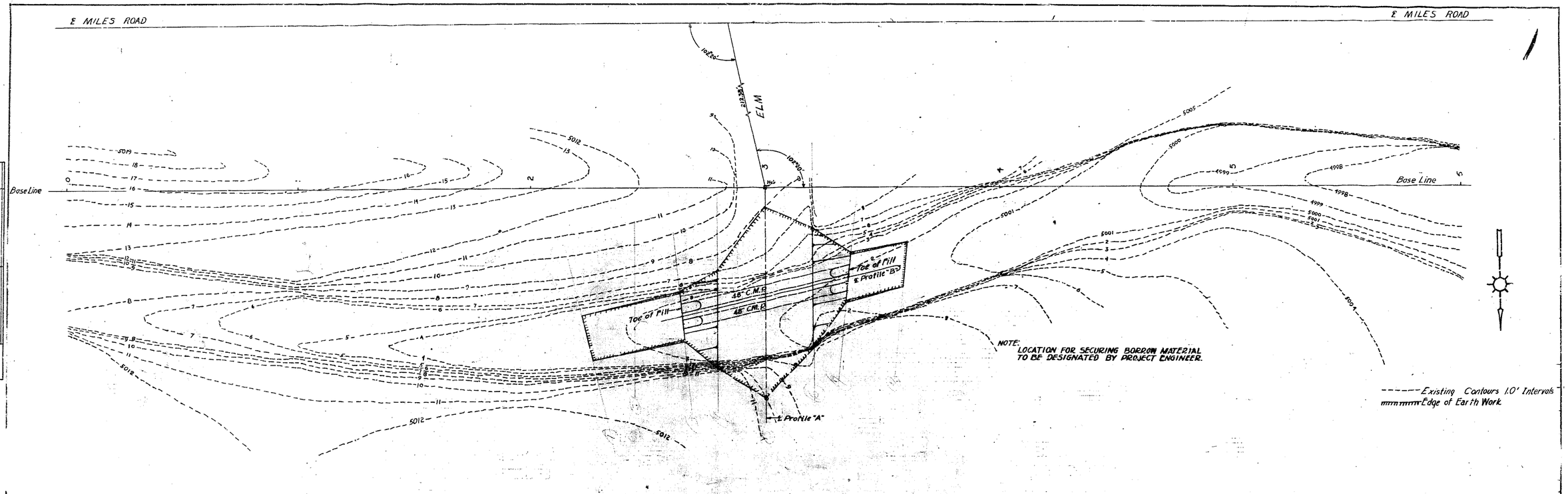
08 561 1056 10

ALBUQUERQUE, NEW MEXICO
KIRTLAND ADDITION FLOODWAY

DETAILS

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

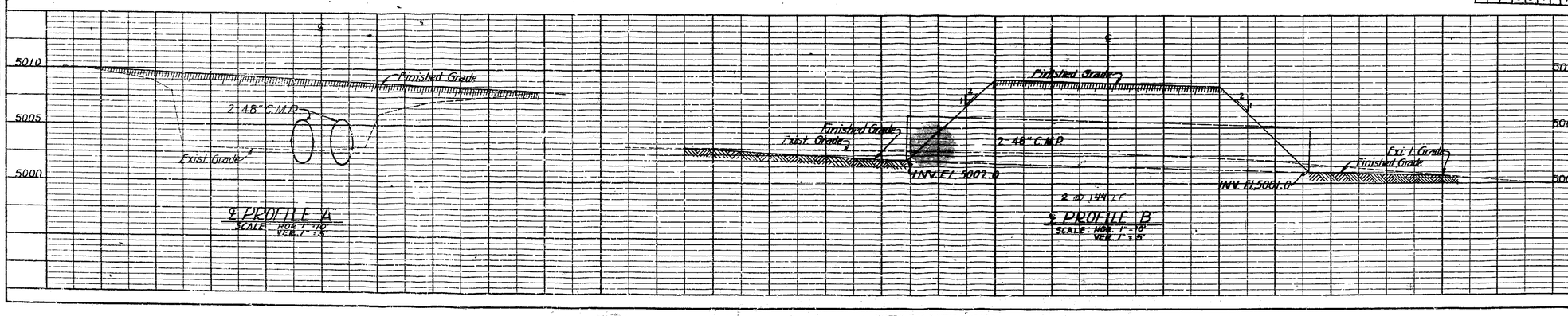
SCALE	DATE	DRAWN EBS	SHEET 10
AS SHOWN	NOV. 1955	CHECKED	OF 18



PLAN
SCALE: 1"=20'

PLAN		BY	DATE
NOTE BOOK NO.	SURVEYED. PLOTTED. ALIGNMENT CHECKED. RIS. OF MAP CHECKED.		

08 561 1156 63 551 52



PROFILE		BY	DATE
NOTE BOOK NO.	SURVEYED. PLOTTED. CROSS CHECKED. G. M. NOTED. STRUCTURE NOTATIONS CHKD.		

ALBUQUERQUE, NEW MEXICO

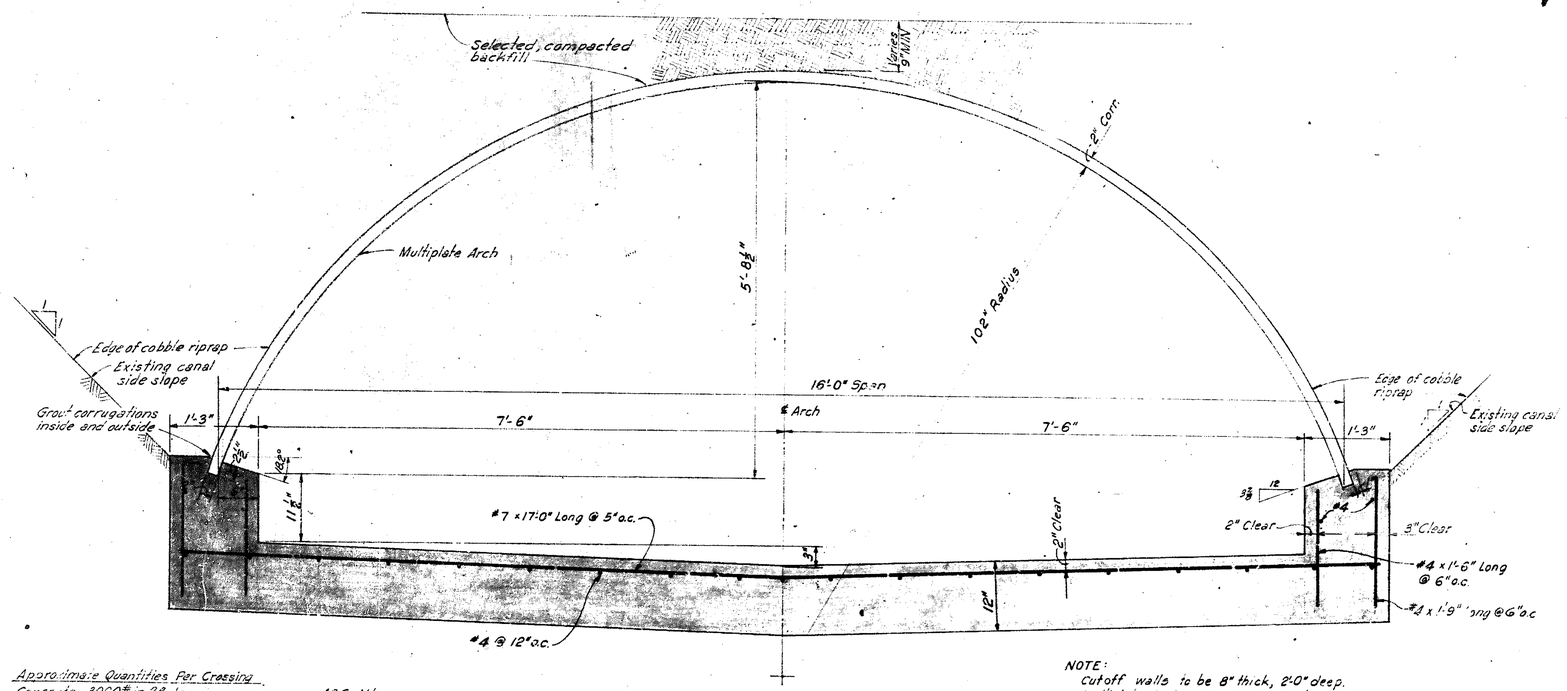
ELM STREET CROSSING

PLAN AND PROFILE

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

SCALE	DATE	DRAWN EPC	SHEET 11
HOR. 1"=20' VER. SHOWN	NOV. 1955	CHECKED	OF 18

PLATE 2—PLAN—PROFILE G.P.R.&R.R.
CHARLES BRUNING COMPANY, INC.



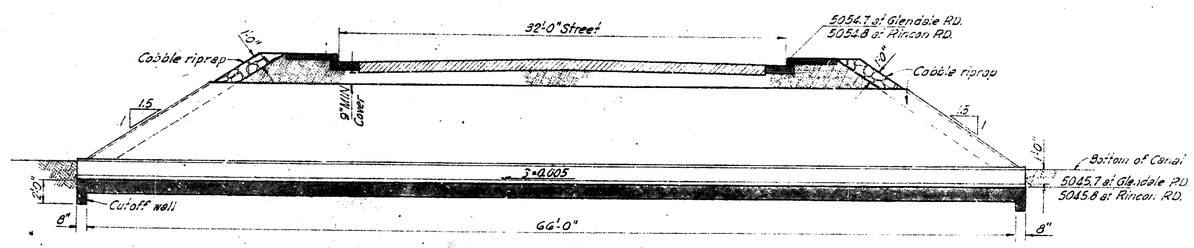
Approximate Quantities Per Crossing

Concrete, 3000# in 28 days	48 Cu. Yds.
Deformed Reinforcing Steel	5460 Lbs.
Only 6"x2", 5 Ga. Multiplate Arch 1.5:1 end cuts.	66 Lin. Ft.
Cobble Stone Riprap, 12" to 6" size	7 Cu. Yds.

NOTE:
Cutoff walls to be 8" thick, 2'-0" deep.
Multiplate Arch - 5 Gage, 2" Corrugations, 6" Pitch and H-20 Loading.

TYPICAL SECTION

SCALE: 1" = 1'-0"



CROSSING AT ARENAL CANAL

Glendale RD. NW & Rincon RD. NW

SCALE: 1" = 50'

Note:
Size of cobble riprap to be 6" MAX to 12" MIN.

08 561 1256 02 571711

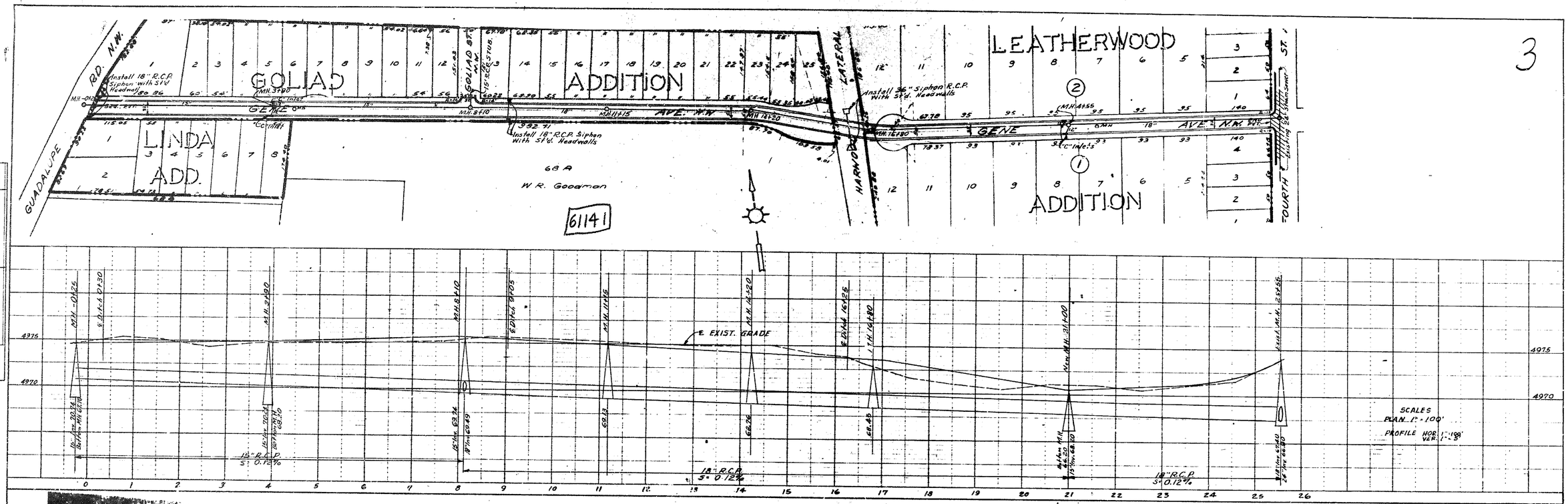
ALBUQUERQUE, NEW MEXICO

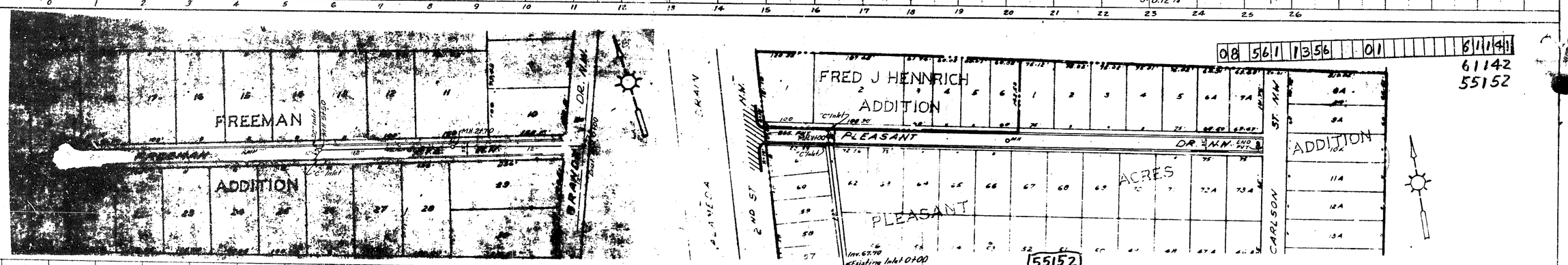
GLENDALE RD. NW & RINCON RD. NW
CROSSING AT
ARENAL CANAL
CH. O. #1

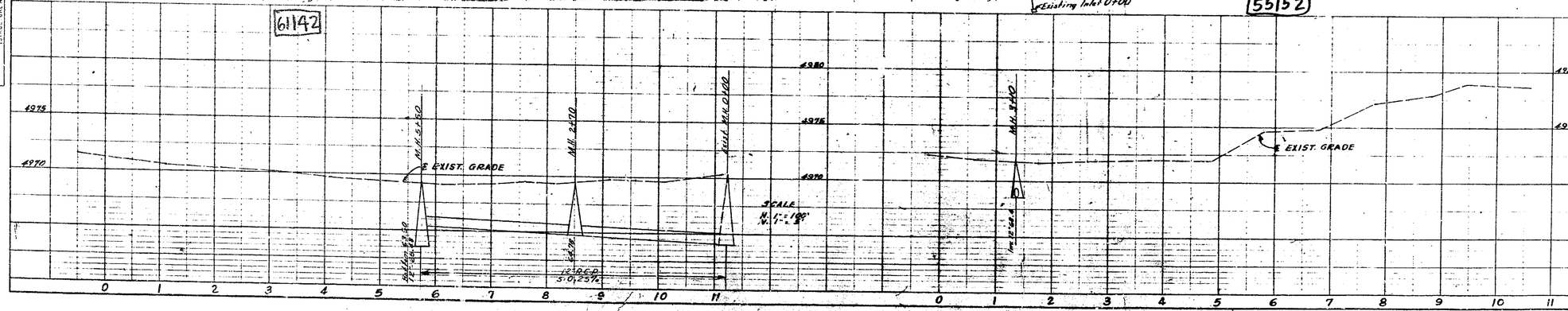
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

SCALE	DATE	DRAWN	SHEET
AS SHOWN	JUNE 1955	CHECKED	12 OF 18

3







ALBUQUERQUE, NEW MEXICO	
STORM SEWER	
GENE AVE. N.W. FREEMAN AVE. N.W. PLEASANT DR. N.W.	
HERKENHOFF & ASSOCIATES CONSULTING ENGINEERS ALBUQUERQUE, NEW MEXICO	
SCALE: AS SHOWN	DATE: DEC. 1955
DRAWN: MR. & L.P.E.	CHECKED: A.U.
SHEET 13 OF 18	

PLATE 2-PLAN-PROFILE G.P.R.&R.E.
CHARLES BRUNING COMPANY, INC.

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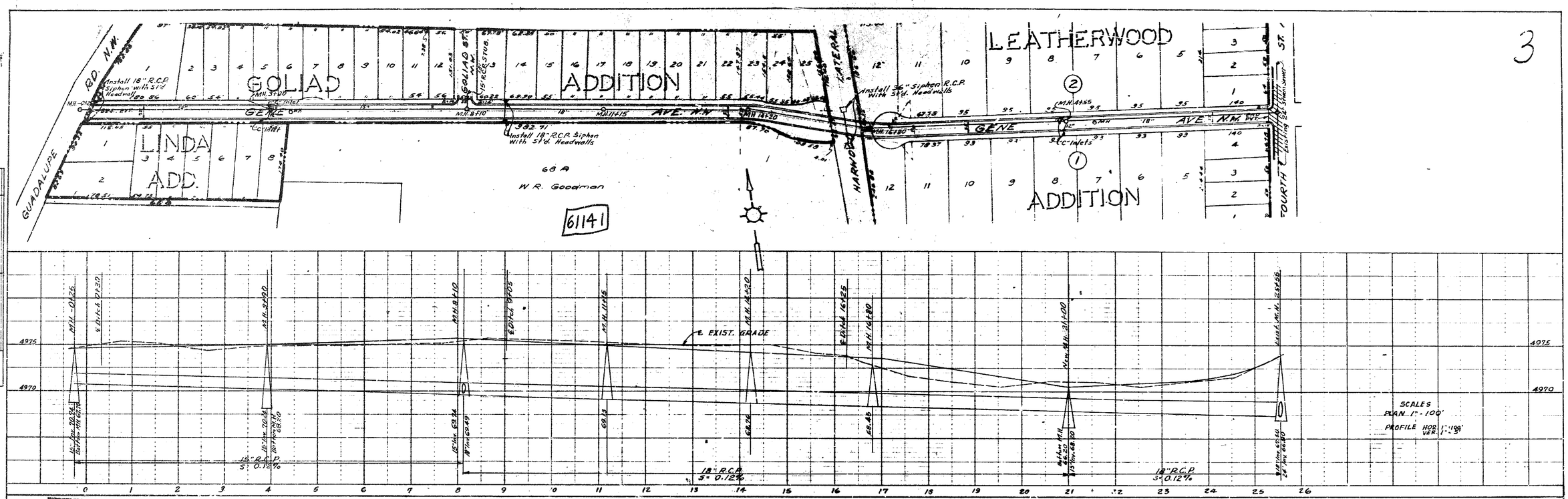


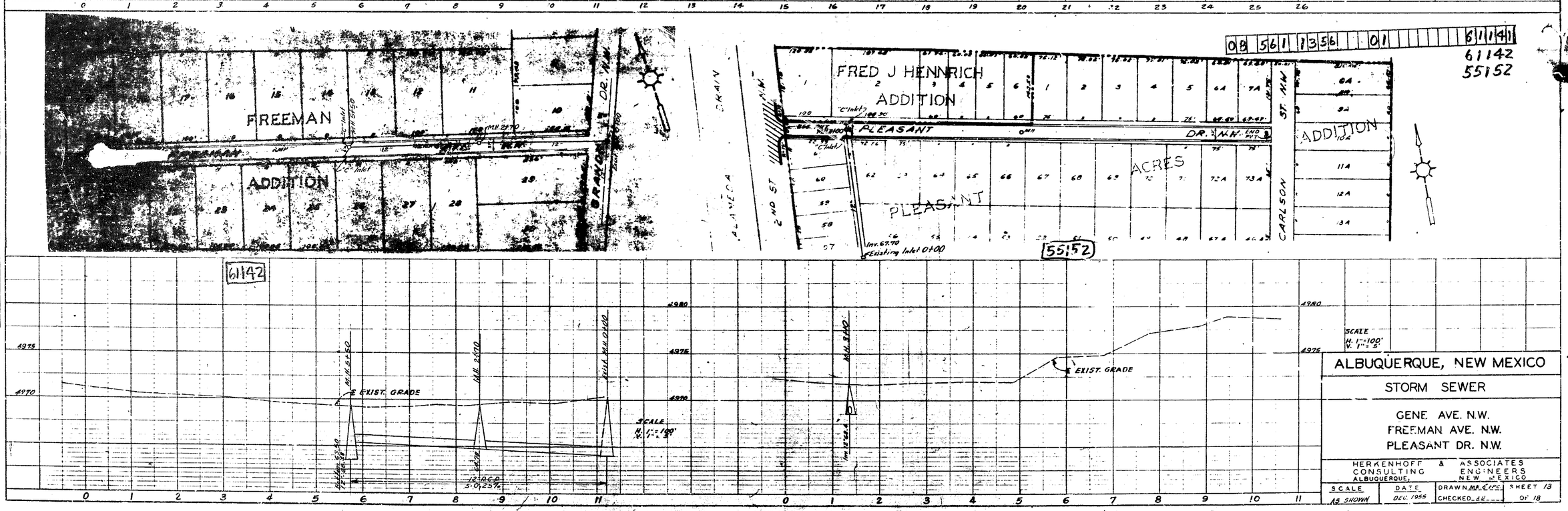


PLATE 2—PLAN—PROFILE
CHARLES BRUNING COMPANY, INC.

3

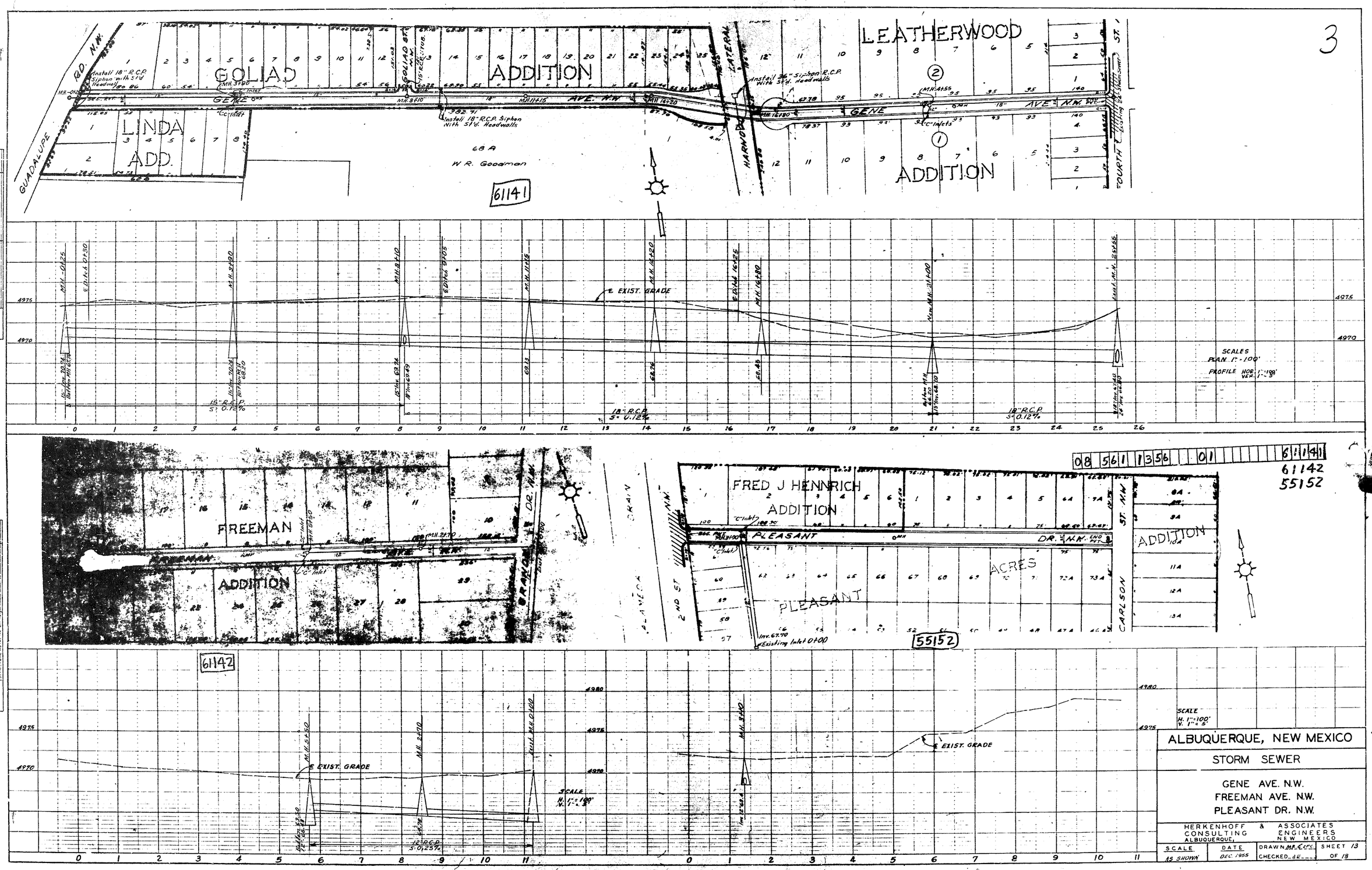
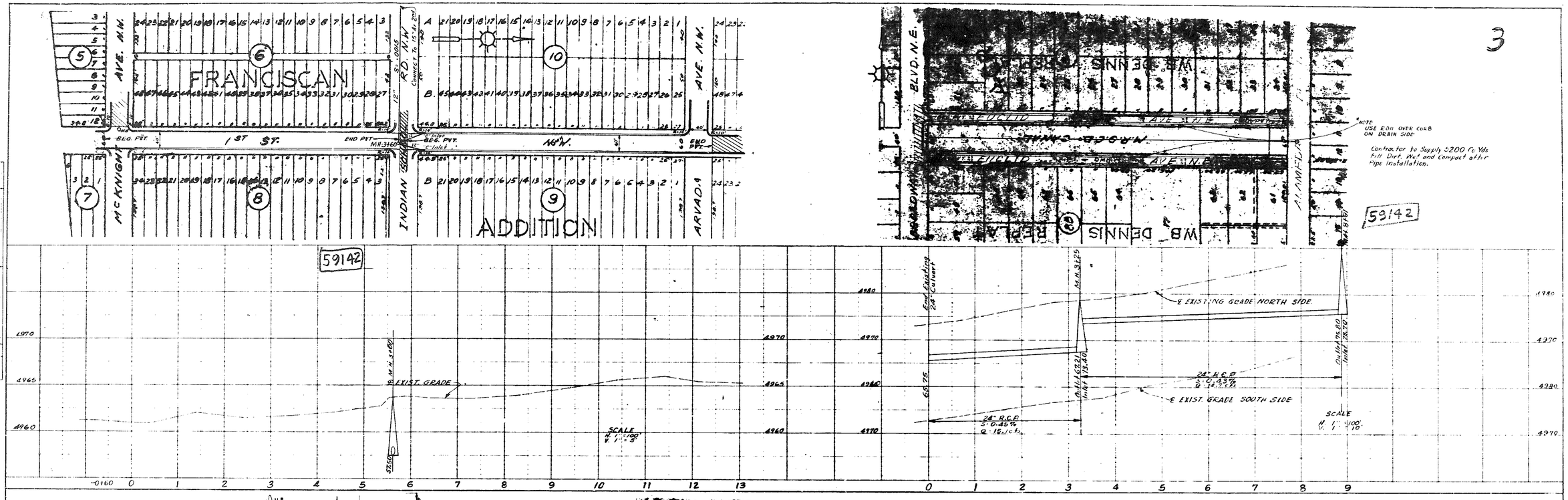
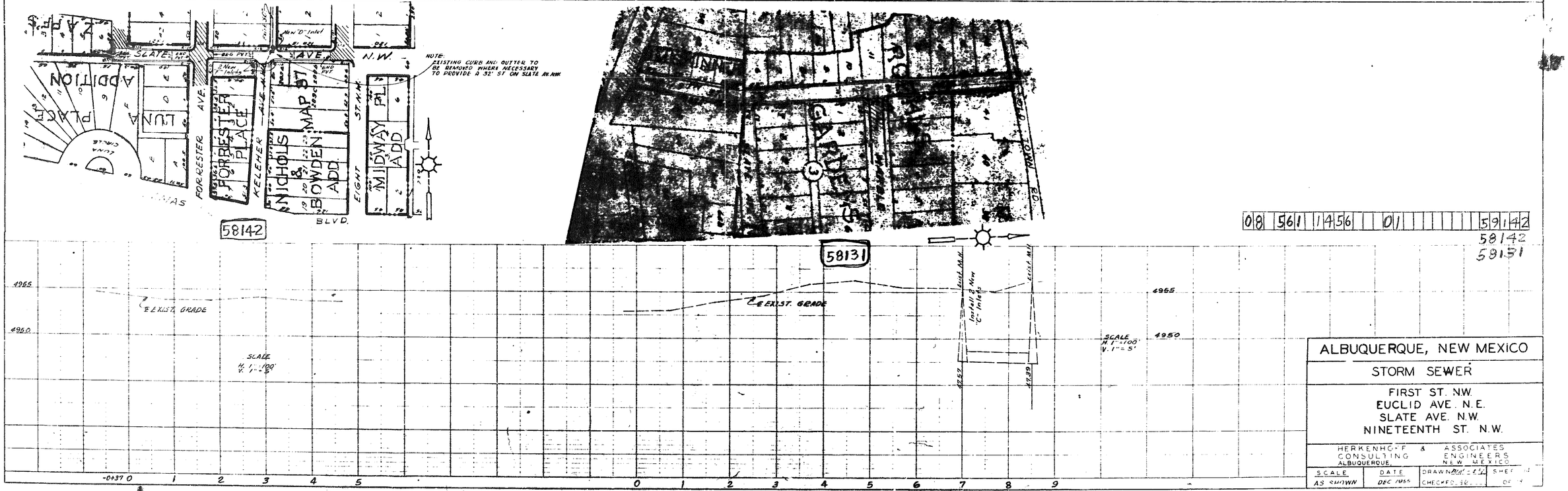


PLATE 2-PLAN-PROFILE O.P.R.&R.E.
CHARLES BRUNING COMPANY, INC.

3

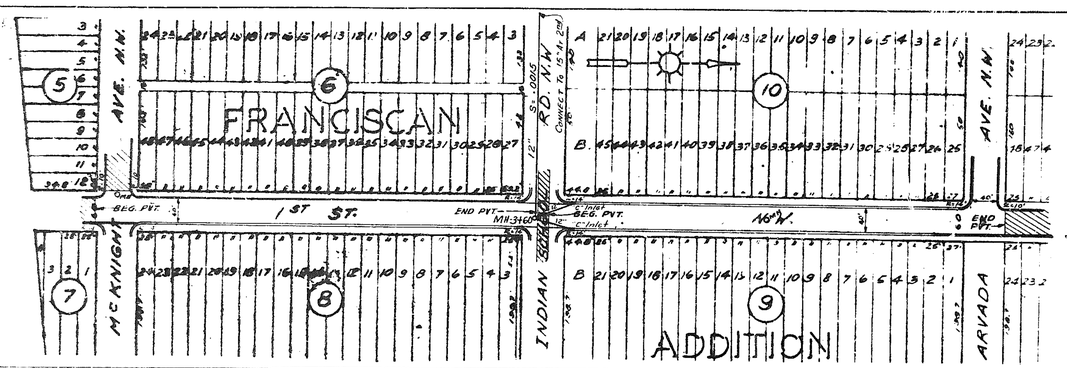


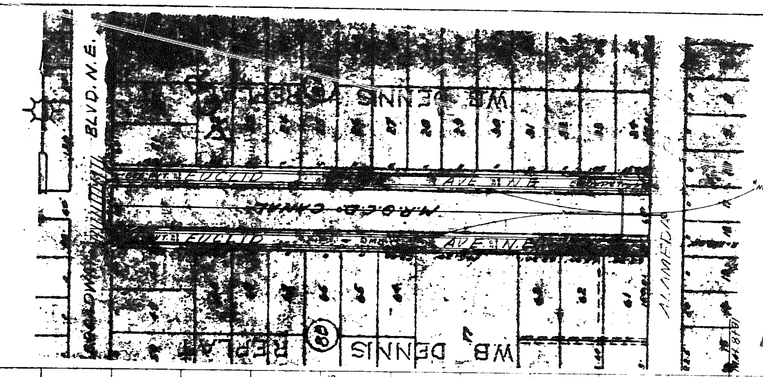


ALBUQUERQUE, NEW MEXICO	
STORM SEWER	
FIRST ST. N.W. EUCLID AVE. N.E. SLATE AVE. N.W. NINETEENTH ST. N.W.	
HERKENHOFF & ASSOCIATES CONSULTING ENGINEERS ALBUQUERQUE, NEW MEXICO	
SCALE: AS SHOWN	DATE: DEC 1955
DRAWN:	CHECKED:
SHEET	OF

PLATE 2-PLAN-PROFILE O.P.B.&R.E.
CHARLES BRUNING COMPANY, INC.

3





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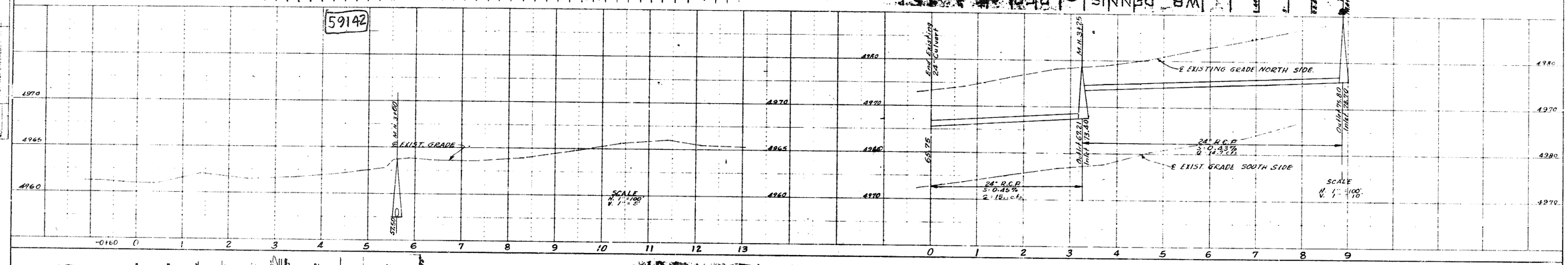
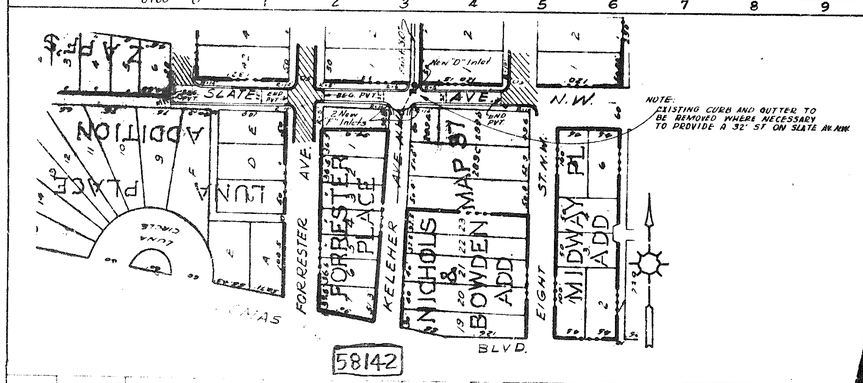
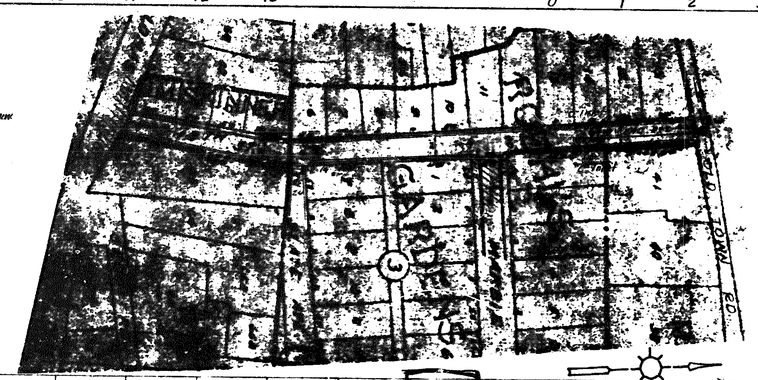




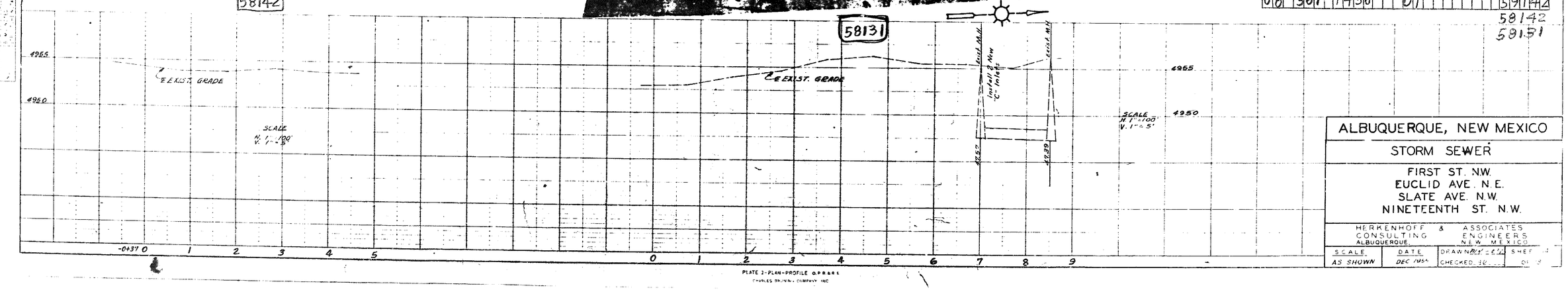


58142

58131

08 5611 1456 01 59142

59142
58131

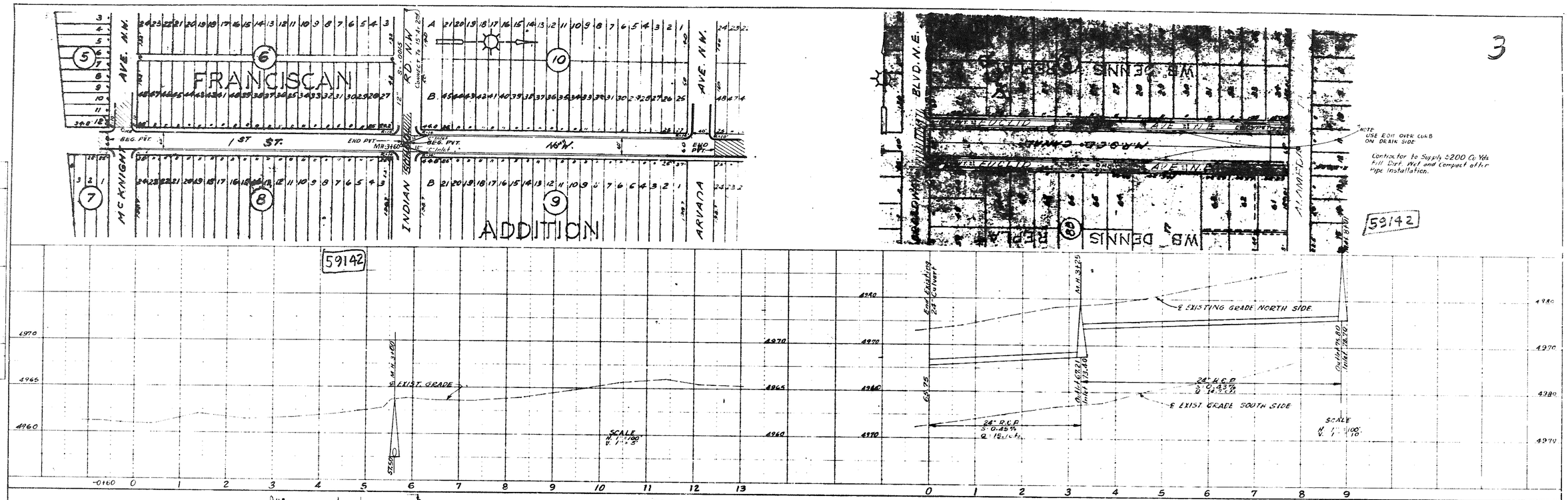


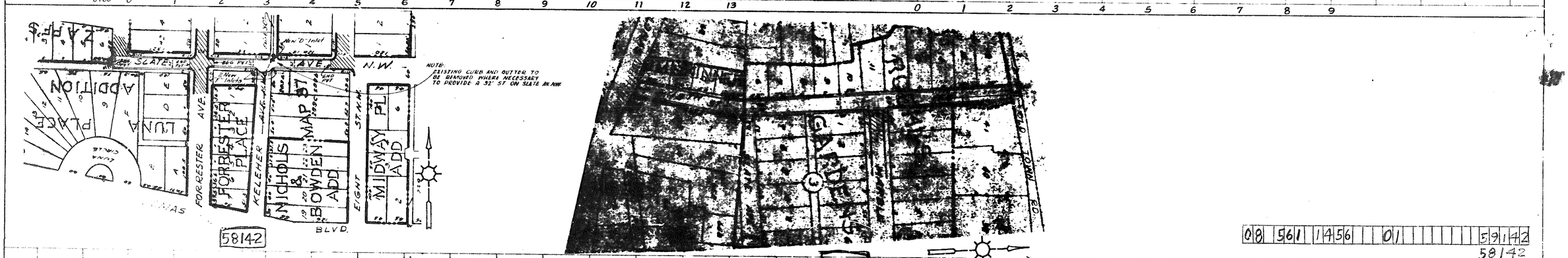
ALBUQUERQUE, NEW MEXICO			
STORM SEWER			
FIRST ST. N.W. EUCLID AVE. N.E. SLATE AVE. N.W. NINETEENTH ST. N.W.			
HERKENHOFF & ASSOCIATES CONSULTING ENGINEERS ALBUQUERQUE, NEW MEXICO			
SCALE AS SHOWN	DATE DEC 1954	DRAWN CHECKED	SHEET 01

PLATE 2-PLAN-PROFILE O.P.B.&R.E.

CHARLES BRUNING COMPANY, INC.

3





PLAN

DATE	
BY	
NOTE: INDICATE ALIGNMENT CHECKED BY OF WAY CHECKED	
NO.	

PROFILE

DATE	
BY	
NOTE: INDICATE ALIGNMENT CHECKED BY OF WAY CHECKED	
NO.	

ALBUQUERQUE, NEW MEXICO

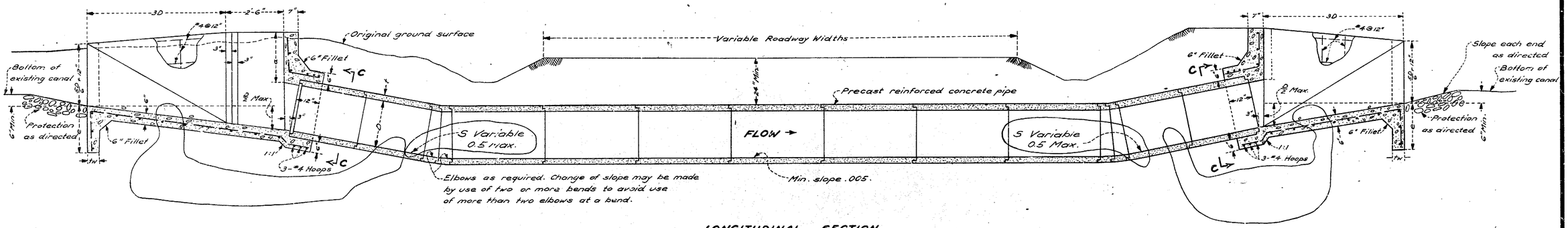
STORM SEWER

FIRST ST. N.W.
EUCLID AVE. N.E.
SLATE AVE. N.W.
NINETEENTH ST. N.W.

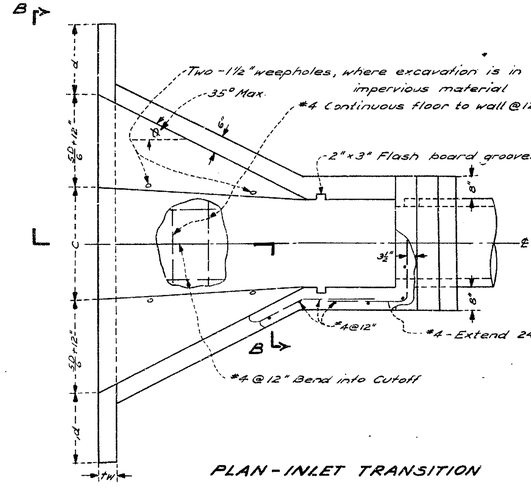
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

SCALE	DATE	DRAWN	SHEET
AS SHOWN	DEC 1954	CHECKED	OF

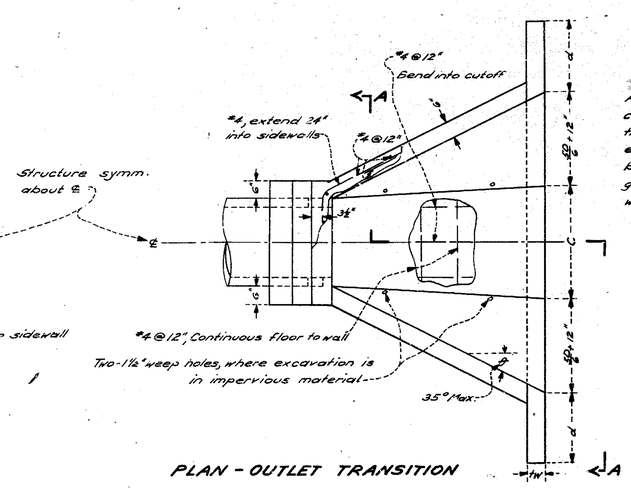
PLATE 2-PLAN-PROFILE O.P.R.&4.E.
CHARLES BRUNING COMPANY INC.



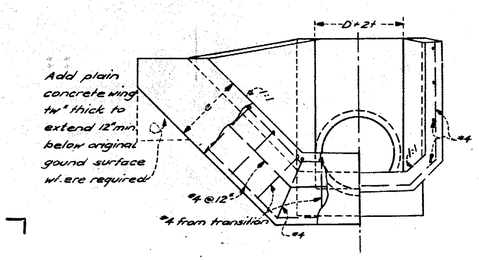
LONGITUDINAL SECTION



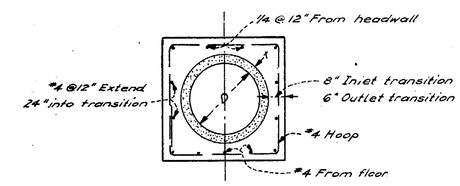
PLAN - INLET TRANSITION



PLAN - OUTLET TRANSITION



SECTION A-A
SECTION B-B



SECTION C-C

TABLE OF DIMENSIONS

D	DIMENSIONS					
	a	c	d	MIN. e	NOMINAL t	tw
18"	24"	2'-4"	18"	18"	2½"	6"
24"	2'-2"	3'-2"	24"	24"	3"	6"
30"	2'-6"	4'-0"	2'-6"	2'-6"	3½"	8"
36"	2'-8"	4'-10"	2'-6"	2'-6"	4"	8"
42"	2'-10"	5'-8"	2'-6"	2'-6"	4½"	8"
48"	3'-0"	6'-6"	2'-6"	2'-6"	5"	8"
54"	3'-0"	7'-4"	2'-6"	2'-6"	5½"	8"
60"	3'-0"	8'-2"	2'-6"	2'-6"	6"	8"

NOTES

All reinforcement in monolithic concrete shall be placed so that the centers of bars in the outer layer will be 2" from outer face, unless otherwise shown.
Lap all bars 20 diameters at splices.
Berms may be necessary at either or both headwalls to suit actual laying length of pipe.
Values of c as given in table of dimensions may be changed as directed if 35° max. transition wall divergence is not exceeded.
The 1:1 slope on transition wall may be changed to 1½:1 as directed if 35° max. transition wall divergence is not exceeded.
Chamfer all exposed corners ¾"

1 0 1 2 3 4 5
SCALE OF FEET

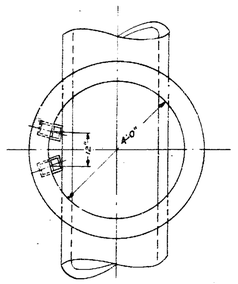
08 561 1556 10

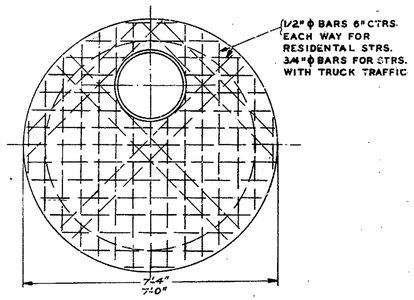
ALBUQUERQUE, NEW MEXICO

TYPICAL SIPHON
LATERAL UNDER ROADWAY
M.R.G.C.D.-STANDARD

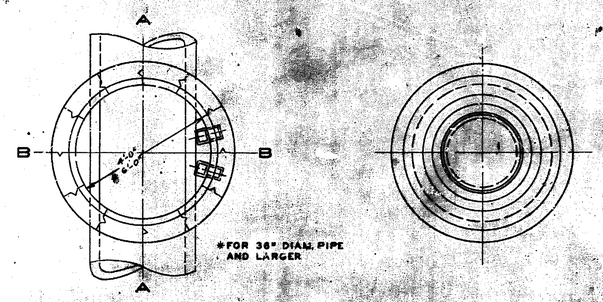
HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN	SHEET 15
		CHECKED	OF 18

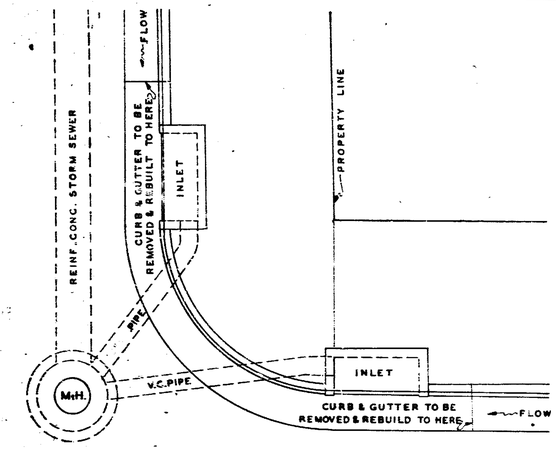




PRECAST CONC. COVER

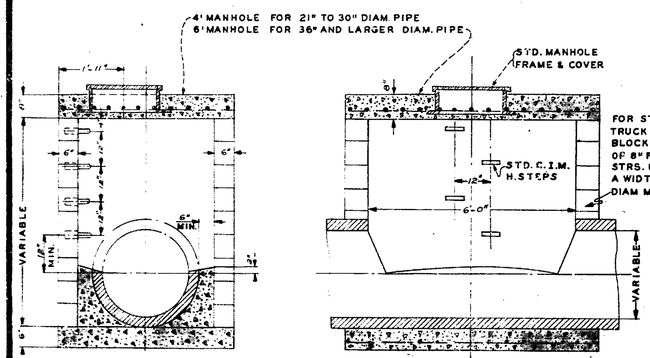


SECTION PLAN



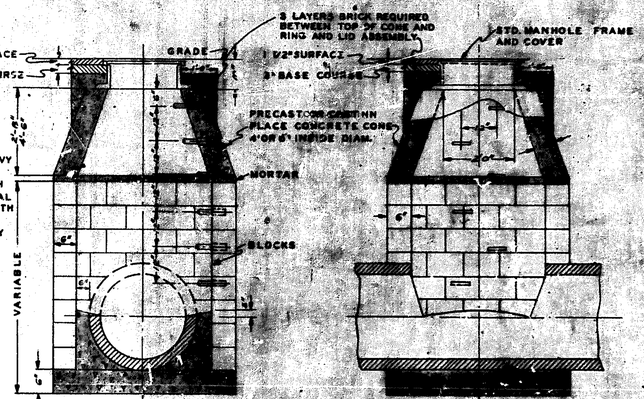
LOCATION OF INLETS IN STREET TYPE "A"

SCALE: 1/16" = 1'-0"



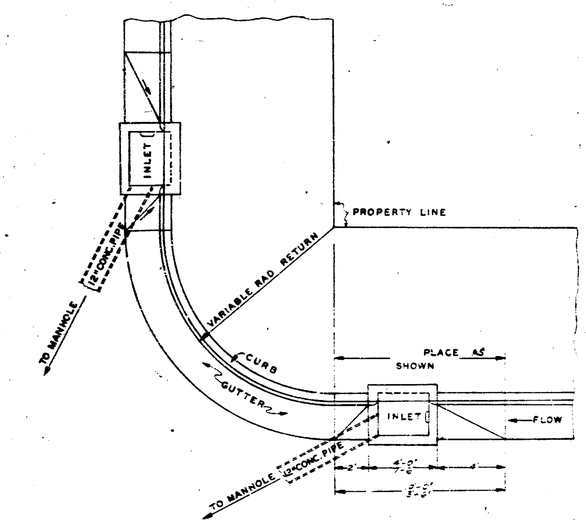
SECT. 4 FOOT M.H. SECT. 6 FOOT M.H.

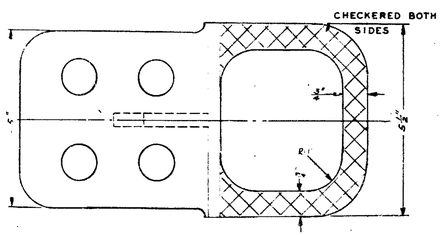
STANDARD STORM SEWER MANHOLE TYPE "A"



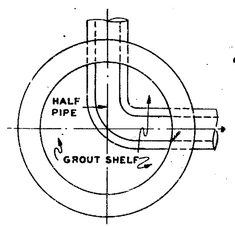
SECTION B-B SECTION A-A

STANDARD STORM SEWER MANHOLE TYPE "B"

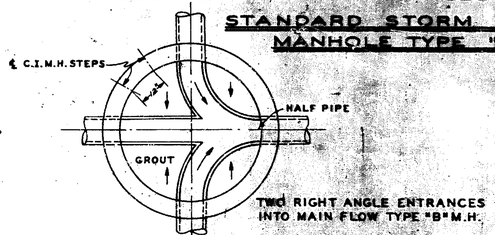


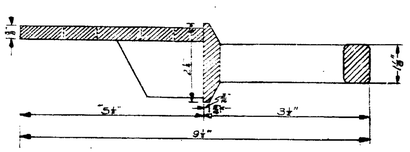


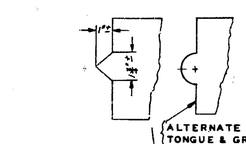
STANDARD MANHOLE STEP

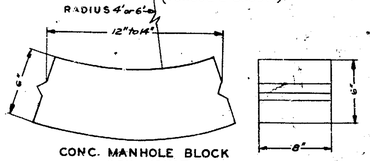


RIGHT ANGLE ENTRY AND EXIT TYPE "B" MANHOLE

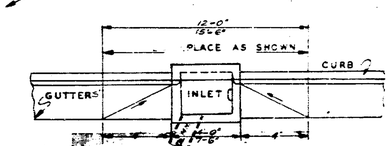








CONC. MANHOLE BLOCK LOCK JOINT



LOCATION OF TYPE "C" & "C-1" INLET IN STREET TANGENT

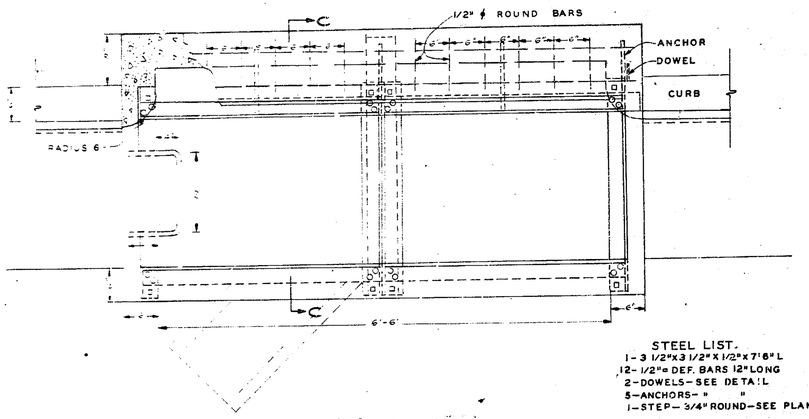
MANHOLE SPECIFICATIONS:

THE CONTRACTOR HAS THE OPTION OF BUILDING THE MASONRY WALLS OF ALL MANHOLES OF SOLID CONCRETE OR BLOCK. IF SOLID CONCRETE IS USED, THE WALLS MUST HAVE A THICKNESS OF NOT LESS THAN SIX INCHES. BLOCK FOR SIX INCH WALLS MUST HAVE A THICKNESS OF NOT LESS THAN EIGHT-8"-INCHES, AND A WIDTH OF NOT LESS THAN SIX-6"-INCHES, A LENGTH OF TWELVE-12"-TO FOURTEEN-14"-INCHES AND SHALL BE LOCK JOINT TYPE. THE CONCRETE FROM WHICH SUCH BLOCKS ARE CONSTRUCTED SHALL MEET THE SPECIFICATIONS FOR THIS PROJECT. TYPE OF BLOCK MUST BE APPROVED BY THE ENGINEER AND EACH BLOCK SHALL BE MOLDED WITH A CURVATURE EQUAL TO AND MATCHING EXACTLY THAT AT THE MANHOLE BEING BUILT. ALL CONCRETE BLOCKS SHALL CONFORM IN ALL RESPECTS TO THE STANDARD SPECIFICATIONS FOR "CONC. MASONRY UNITS FOR CONSTRUCTION OF CATCH BASIN & MANHOLES" A.S.T.M. DESIGNATION C-139-39 OR ANY SUBSEQUENT REVISIONS THEREOF. CONES MAY BE POURED IN PLACE, OR PRECAST AND THEN GROUTED TO MANHOLE BARREL. ALL MANHOLE FRAMES, COVERS AND STEPS TO BE STANDARD CAST IRON AS SHOWN. IN WET SEWER CONSTRUCTION MANHOLE BARRELS SHALL BE CONSTRUCTED OF POURED CONC. TO A PRE-DETERMINED ELEVATION AS SHOWN ON PLAN & PROFILE SHEETS. REMAINDER OF BARREL MAY BE CONSTRUCTED OF CURVED CONC. BLOCK SET IN WATER PROOF MORTAR.

Felix

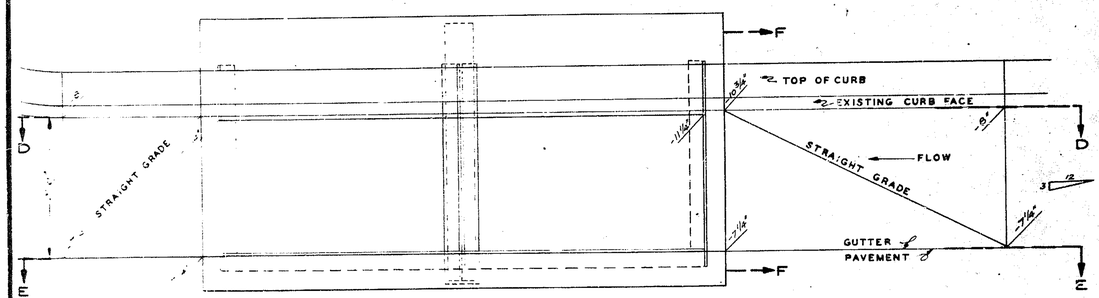
ALBUQUERQUE NEW MEXICO	
STORM SEWER STANDARDS	RELIEF LINE SOUTH BROADWAY STORM SEWER
STORM SEWER DETAILS	
HERKENHOFF & ASSOCIATES CONSULTING ENGINEERS SANTA FE ALBUQUERQUE	
SCALE: AS SHOWN	DATE: NOVEMBER 1958
DRAWN:	CHECKED:
SHEET 16 OF 18	

C8 5611 1656 10

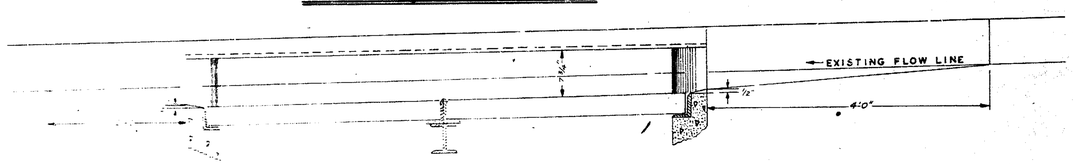


STEEL LIST.
1-3 1/2"x3 1/2"x1/2"x7'6" L
12-1/2"ϕ DEF. BARS 12" LONG
2-DOWELS-SEE DETAIL
5-ANCHORS- "
1-STEP-3/4" ROUND-SEE PLAN

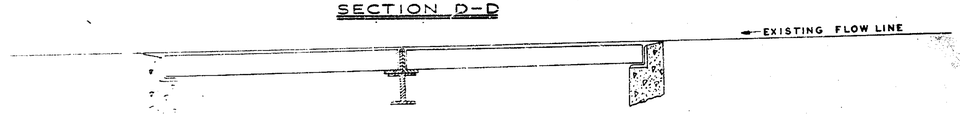
PLAN
DOUBLE GRATE STANDARD CATCH BASIN-TYPE C
SCALE 1"=1'2"



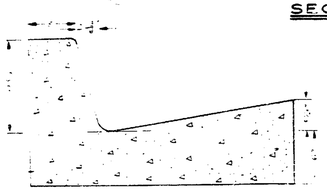
PLAN
STANDARD LOCAL DEPRESSIONS FOR CATCH BASINS
TYPES A,B AND C&C-1



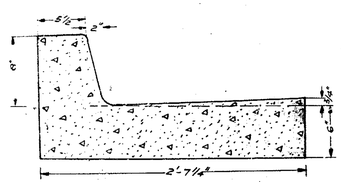
SECTION D-D



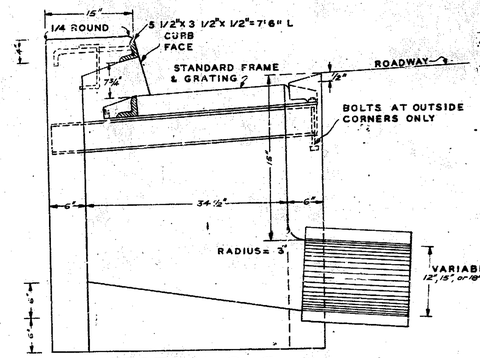
SECTION E-E



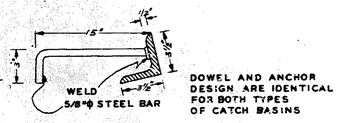
SECTION F-F



STANDARD SECTION
CURB AND GUTTER



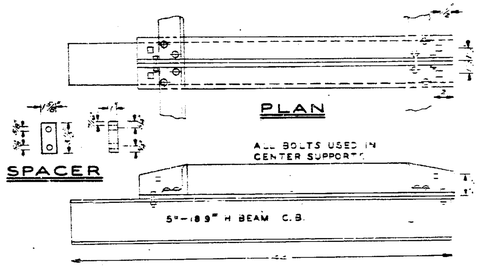
SECTION C-C
[TYPE C]



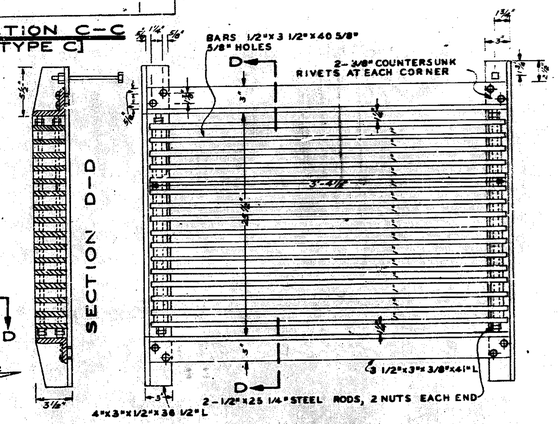
DOWEL AND ANCHOR DESIGN ARE IDENTICAL FOR BOTH TYPES OF CATCH BASINS

DETAIL OF ANCHOR

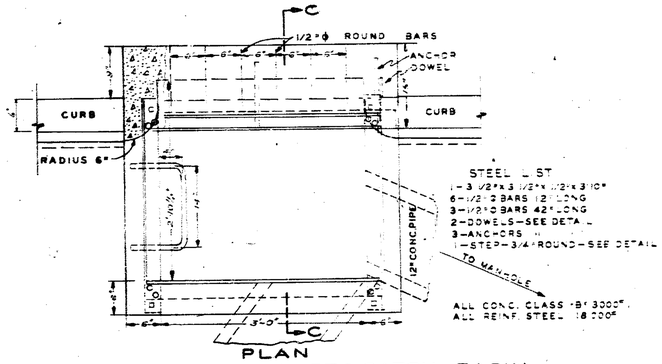
DETAIL OF DOWEL
TO BE USED WHEN TOP IS POURED SEPARATE



ELEVATION
CENTER SUPPORT ASSEMBLY



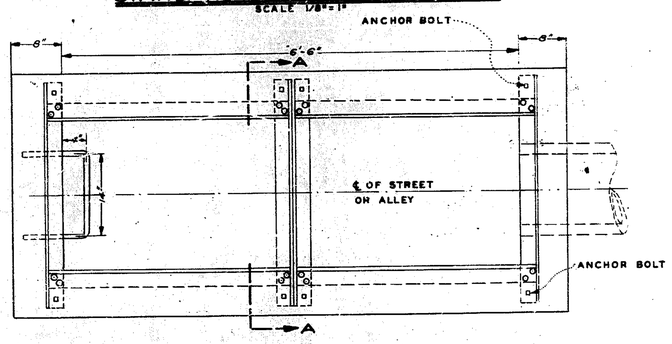
PLAN
STANDARD FRAME AND GRATING
SCALE 1/8"=1'



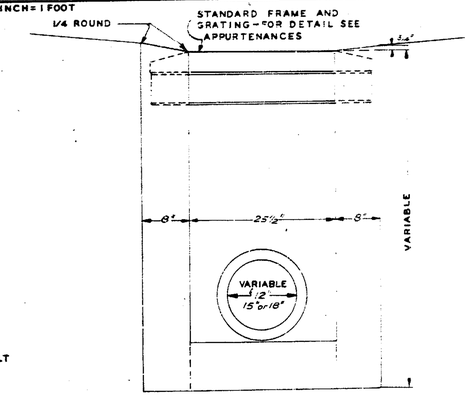
STEEL LIST
1-3 1/2"x3 1/2"x1/2"x3'10"
6-1/2"ϕ BARS 12' LONG
3-1/2"ϕ BARS 42" LONG
2-DOWELS-SEE DETAIL
3-ANCHORS "
1-STEP-3/4" ROUND-SEE DETAIL

ALL CONC. CLASS "B" 3000#.
ALL REINF. STEEL 18,000#

PLAN
SINGLE GRATE INLET & CATCH BASIN-
TYPE "C"-ONE HALF STANDARD SIZE
SCALE: 1 INCH=1 FOOT



PLAN
STANDARD CATCH BASIN TYPE-D



SECTION A-A
TYPE-D

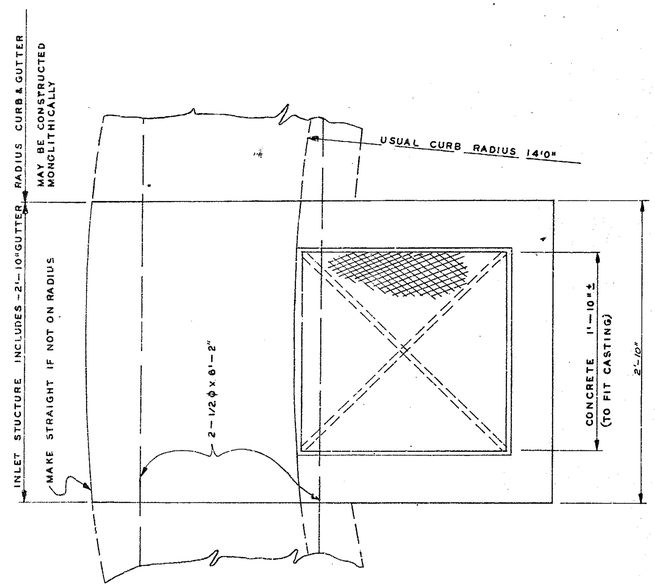
08 561 17 56 TO

ALBUQUERQUE, NEW MEXICO
RELIEF LINE
SOUTH BROADWAY STORM SEWER

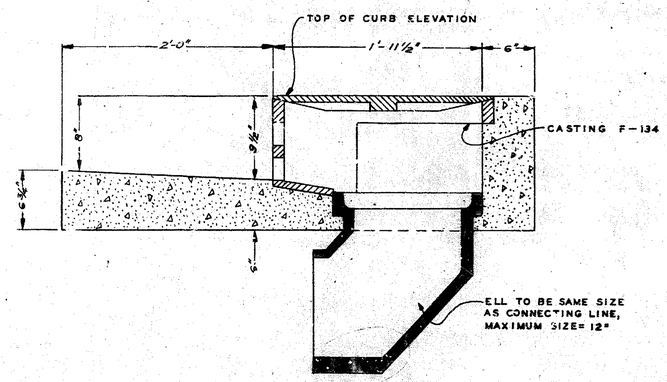
STORM SEWER DETAILS

HERKENHOFF & ASSOCIATES
CONSULTING ENGINEERS
ALBUQUERQUE, NEW MEXICO

SCALE	DATE	DRAWN / CHECKED	SHEET
AS SHOWN	NOVEMBER 1955	DRAWN J.C. CHECKED G.H.	SHEET 17 OF 18



PLAN - CURB INLET [CASTING F-134]



SECTION - CURB INLET

DB 561 1856 10

ALBUQUERQUE, NEW MEXICO

STORM SEWER STANDARDS

HERKENHOFF & ASSOC.
CONSULTING ENGINEERS
SANTA FE ALBUQUERQUE

SCALE	DATE	DRAWN	SHEET
AS SHOWN		CHECKED	OF