VISTA FOUR HILLS SUBDIVISION

Phase I ~~and Phase II~~

ALBUQUERQUE, NEW MEXICO

INDEX

Sheet No.	TITLE
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4	PROPOSED SEWER DESIGN
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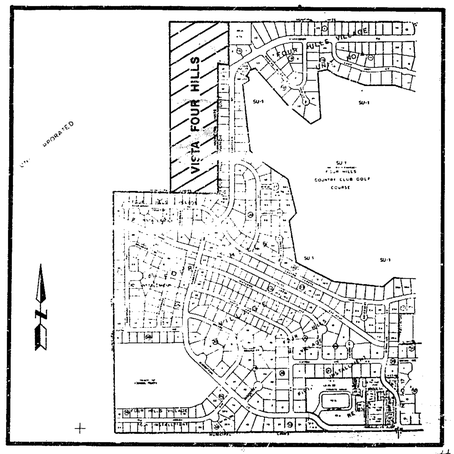
7 - 14	PLAN AND PROFILES
15 - 16	SANITARY SEWER OUTFALL DESIGN



VICINITY MAP.

Map #M-22

APPROVAL OF AS BUILT DRAWING
M. Kamp
11-21-90

20 C12 0028

C-28-12

DONAHUE HUSTON INC.

Drawn by DH.

68-69

SPII-78-226

REPLAT OF TRACT I
(FILED JANUARY 27, 1978)

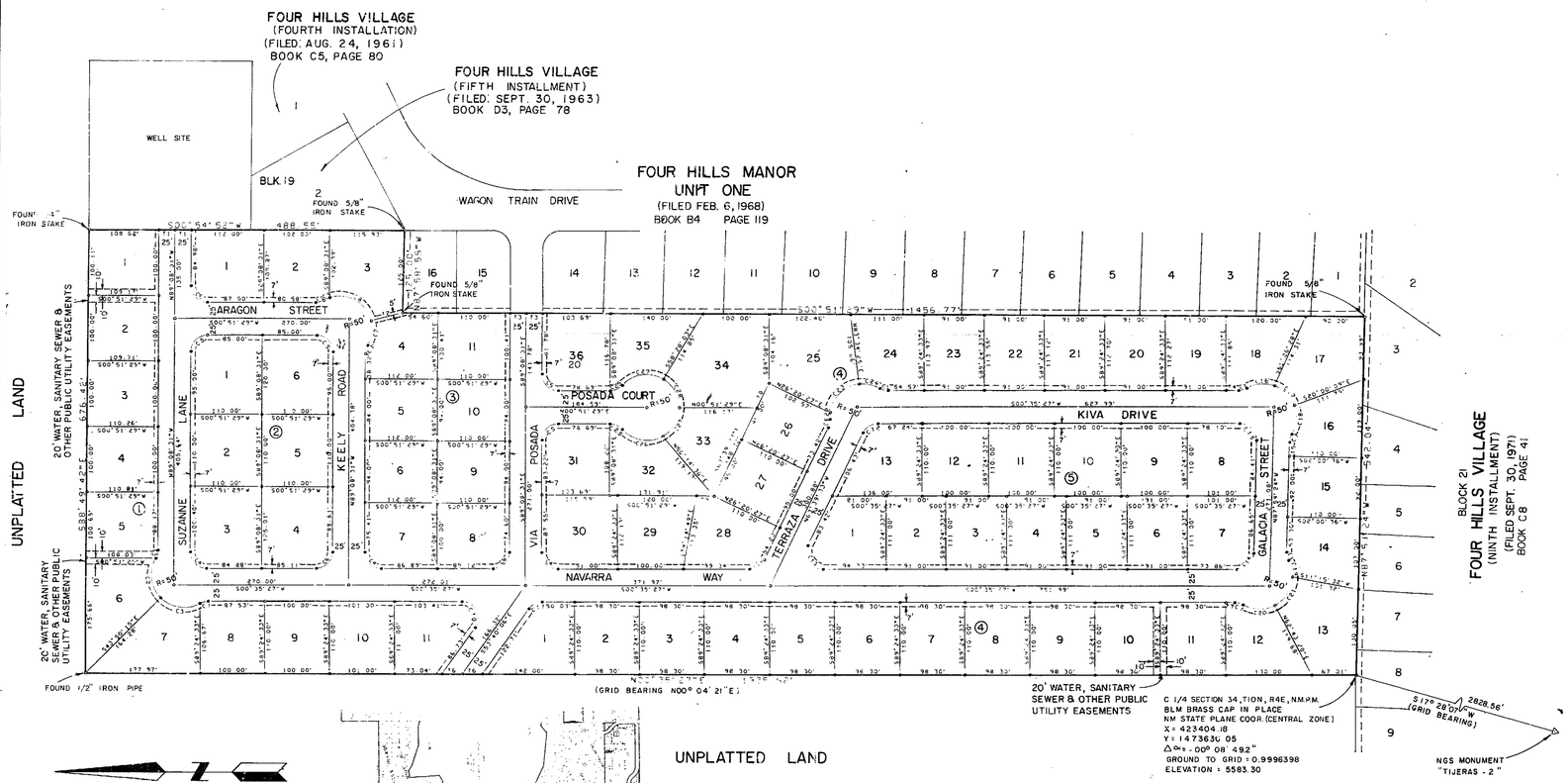
79 21907

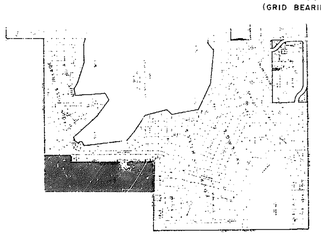
VISTA FOUR HILLS

BERNALILLO COUNTY, NEW MEXICO
SCALE 1"=100'
NOVEMBER 1978

NR.	DISTANCE	BEARING
T1	25.00'	S00°54'52"W
T2	50.48'	S13°21'30"E
T3	25.00'	S00°51'29"W
T4	18.80'	S00°35'27"W
T5	20.94'	S87°59'24"E
T6	36.80'	S00°35'27"W
T7	13.27'	S00°35'27"W
T8	41.68'	S63°39'33"E
T9	26.36'	S02°19'29"W

NR.	RADIUS	ARC	CHORD	DELTA	TANGENT
C1	25.00'	13.06'	12.91'	29°55'35"	6.68'
C2	50.00'	65.12'	60.61'	74°37'20"	38.11'
C3	50.00'	65.88'	61.22'	75°29'33"	38.71'
C4	25.00'	39.39'	35.44'	90°16'02"	25.12'
C5	25.00'	39.27'	35.36'	90°00'00"	25.00'
C6	25.00'	39.15'	35.27'	89°43'58"	24.88'
C7	50.00'	38.52'	37.58'	44°08'34"	20.27'
C8	50.00'	82.42'	73.40'	94°26'35"	54.04'
C9	50.00'	9.83'	9.82'	11°16'00"	4.93'
C10	25.00'	54.86'	44.50'	125°44'27"	48.79'
C11	25.00'	23.66'	22.80'	54°15'33"	12.81'
C12	25.00'	28.03'	26.59'	64°15'00"	15.70'
C13	25.00'	50.51'	42.34'	115°45'00"	39.81'
C14	25.00'	38.65'	34.91'	88°34'51"	24.39'
C15	25.00'	39.89'	35.79'	91°25'09"	25.63'
C16	50.00'	43.19'	41.86'	49°29'30"	23.05'
C17	50.00'	43.49'	42.14'	49°50'29"	23.23'
C18	50.00'	45.33'	43.79'	51°56'20"	24.25'
C19	50.00'	26.12'	25.82'	29°55'35"	13.36'
C20	50.00'	50.44'	48.32'	57°47'42"	27.60'
C21	50.00'	52.98'	50.54'	60°42'44"	29.28'
C22	50.00'	10.01'	9.99'	11°27'56"	5.02'
C23	50.00'	66.05'	61.36'	75°41'37"	38.85'
C24	50.00'	32.24'	31.68'	36°56'38"	16.70'
C25	25.00'	21.03'	20.41'	48°11'23"	11.18'
C26	50.00'	67.98'	62.86'	77°53'47"	40.41'
C27	50.00'	52.62'	50.22'	60°17'36"	29.04'
C28	50.00'	51.77'	49.49'	59°19'32"	28.48'
C29	50.00'	68.82'	63.52'	78°51'51"	41.12'





VICINITY MAP
NO SCALE

NOTES:

1. Distances are ground distances.
2. Elevations are field elevations.
3. Number 5 rebar with plastic cap marked PE&LS No. 2455 were set on corners designated by small solid circle.
4. Number of lots: 77 lots
5. Zone Atlas No. M-22
6. Number of miles of streets within subdivision: 0.93 miles

I, under the laws of New Mexico, certify that I am a Registered Land Surveyor and that this plat was prepared by me or under my supervision and meets the minimum requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance and shows all easements of record and is true and accurate to the best of my knowledge and belief.

A. Dwain Weaver
A. Dwain Weaver, NMPLS No. 6544

DESCRIPTION

A certain tract of land within the NE 1/4 of Section 34, T10N, R4E., N.M.P.M., in Bernalillo County, New Mexico, being Tract 1, VISTA FOUR HILLS, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on January 27, 1978, and being more particularly described as follows:

BEGINNING at the southwest corner, said corner being the southwest corner of said Tract 1 and a point on the northerly boundary of FOUR HILLS VILLAGE, NINTH INSTALLMENT as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on September 30, 1971 and also being the C 1/4 of said Section 34, a BLM brass cap in place, whence the NGS control monument TIJERAS–2 having New Mexico State Plane Coordinate values (central zone) of X=422555.40 and Y=1470932.91 bears a grid bearing, S. 17°28'07" W., and a ground distance of 2828.56 feet; thence,
N. 00°35'27" E., 1935.62 feet to the northwest corner, said corner being the northwest corner of said Tract 1; thence,
S. 88°49'42" E., 676.42 feet to the northeast corner, said corner being the northeast corner of said Tract 1; thence,
S. 00°54'52" W., 255.62 feet to a point on the northerly boundary of FOUR HILLS VILLAGE, FIFTH INSTALLMENT, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on September 23, 1963, thence continuing along the boundary line of said FOUR HILLS VILLAGE, FIFTH INSTALLMENT,
S. 00°54'52" W., 232.93 feet to the northeast corner of FOUR HILLS MANOR, UNIT 1, as the same is shown and designated on the plat filed in the office of the County Clerk of Bernalillo County, New Mexico on February 6, 1978, thence continuing along the northerly boundary of said FOUR HILLS MANOR, UNIT 1,
N. 87°58'55" W., 125.00 feet to a point being the northwest corner of said FOUR HILLS MANOR, UNIT 1; thence,
S. 00°51'29" W., 1456.77 feet along the westerly boundary of said FOUR HILLS MANOR, UNIT 1 to the southeast corner, said corner being the southeast corner of said Tract 1 and the southwest corner of said FOUR HILLS MANOR, UNIT 1 and also being a point on the northerly boundary of said FOUR HILLS VILLAGE, NINTH INSTALLMENT and thence continuing along the northerly boundary of said FOUR HILLS VILLAGE, NINTH INSTALLMENT,
N. 87°59'24" W., 524.04 feet to the point and place of beginning.

Tract contains 25.732 acres, more or less.

DEDICATION

The subdivision of the land hereon described is with free consent and in accordance with the desires of the undersigned owner and proprietor thereof, and said owner and proprietor does hereby dedicate the public rights-of-way shown hereon, together with all easements shown on this plat. Power and communication easements are reserved where shown by dashed lines, being 14 feet in width centered on the rear lot lines and 10 feet in width centered on the side lot lines, except as noted, including the right of ingress and egress and the right to trim interfering trees. Any drainage right-of-ways shown hereon are also right-of-ways for underground sewer and water lines.

BY: Jack Flanigan

STATE OF NEW MEXICO)
ss
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 27th day of February, 1979, by Jack Flanigan of Sun Valley Dev., a corporation, on behalf of said corporation.

My commission expires: June 3, 1981
Madonna M. Allright Booth
Notary Public

APPROVALS

Deferred by M. Kennedy S-77-55 Planning Director, City of Albuquerque, NM	3-27-79 Date
AMAFCA	Date
Richard S. Helm City Engineer, City of Albuquerque, NM	8/27/79 Date
Thomas W. Kennedy Traffic Engineer, City of Albuquerque, NM	12/27/78 Date
Director of Parks & Recreation, City of Albuquerque, NM	3/14/79 Date
Chief Surveyor, City of Albuquerque, NM	1/3/79 Date
Mountain States Telephone & Telegraph Co.	3-1-79 Date
Public Service Company of New Mexico	12-8-78 Date
Bert Chavez Gas Company of New Mexico	12-18-78 Date
Property Management	Date
Water Resources, City of Albuquerque, NM	3/1/79 Date

APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER - FIELD
M. Kennedy
DATE 11-21-80

J. Weber
7/ Apr 79

20 012 01 28

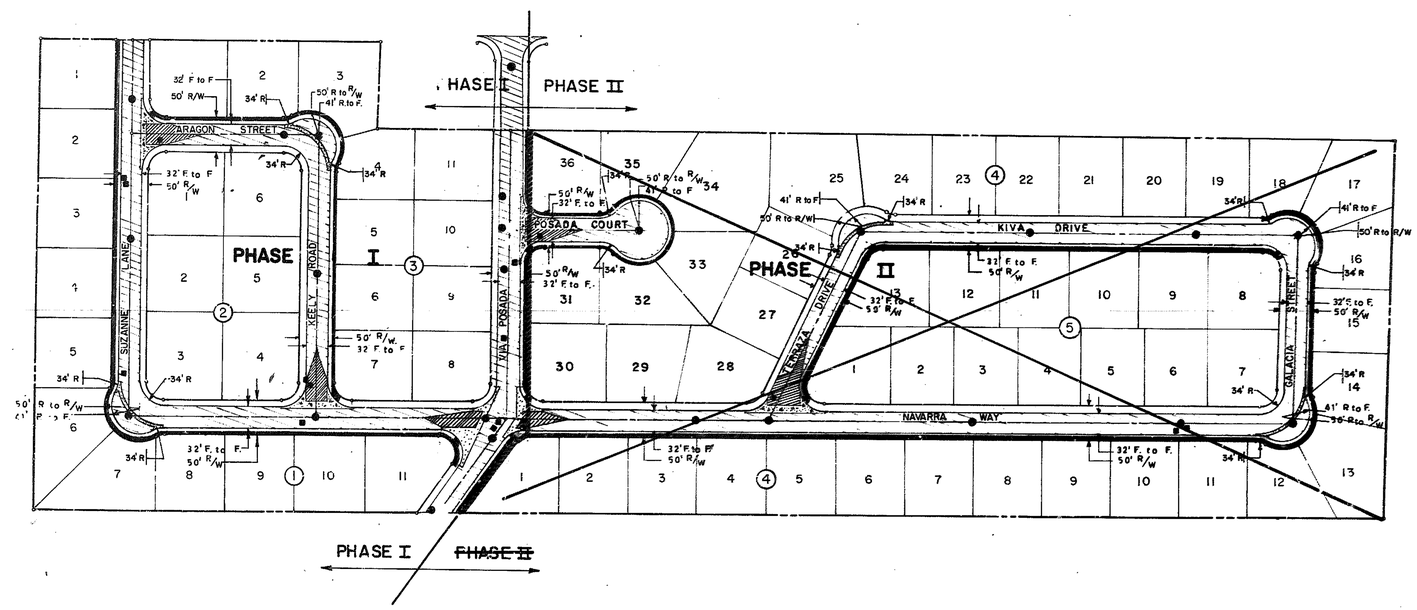
77-207

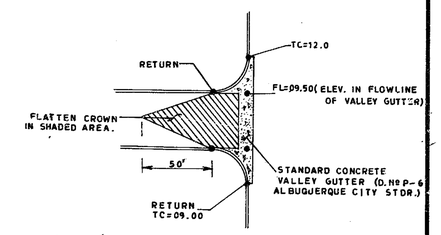
C-28-12

68-69

D9-89

77-207





TYPICAL VALLEY GUTTER DETAIL

NO SCALE

NOTE: FOR KNUCKLE VALLEY GUTTER DETAIL REFER TO CITY STD. DWG. NO. P-7

LEGEND

- PROPOSED RESIDENTIAL PAVING
- PROPOSED CURB & GUTTER
- PROPOSED SIDEWALK
- MANHOLE ADJUSTMENT
- WATER VALVE ADJUSTMENT

NOTES:

1. ALL SIDEWALKS SHALL BE 4' WIDE, PLACED AGAINST THE PROPERTY LINE, UNLESS OTHERWISE SHOWN.
2. ALL CURB RETURNS SHALL HAVE A 25' RADIUS AT THE FACE OF THE CURB UNLESS OTHERWISE SHOWN.
3. NORTH AND WEST CURB LINES SHALL BE USED AS CONTROL CURBS OR AS APPROVED BY THE CITY ENGINEER.

APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER
DATE 11-21-80

20 012 0228

APPROVALS	
CITY ENGINEER — DATE 4/17/79	ASST. CITY ENGINEER-DESIGN — DATE 11 Apr 79
LIQUID WASTE ENGINEER — DATE 5 April 79	WATER ENGINEER — DATE 5 Apr. 79
ASST. CITY ENGINEER-HYDROLOGY — DATE 4/11/79	TRAFFIC ENGINEER — DATE 4-3-79
APPROVED FOR CONSTRUCTION: CITY ENGINEER — DATE 7/12/79	

DATE	REVISION
	1

VISTA FOUR HILLS SUBDIVISION
PHASE I ~~& PHASE II~~

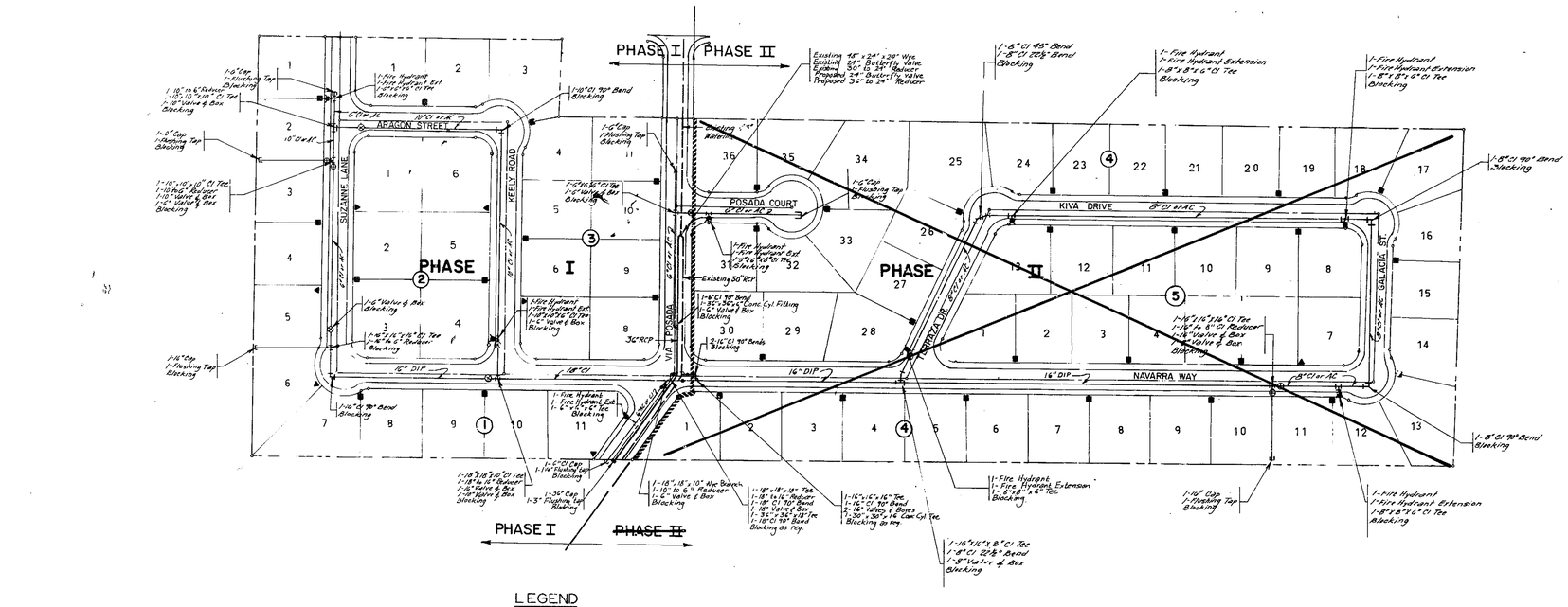
Project No. C-28-12

Seal

PROPOSED PAVING DESIGN

ALBUQUERQUE, NEW MEXICO

Job No. 77-207	Sheet 2 of 17
Drawn By: JLM	Date: DEC 1978
Checked By: RRB	Scale: 1"=100'



LEGEND

- PROPOSED WATERLINE
- EXISTING WATERLINE & VALVE
- PROPOSED WATERLINE & VALVE
- PROPOSED FIRE HYDRANT
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE

NOTES:

1. Water lines are located 10' north or west of centerline unless otherwise shown.
2. Fire hydrants to be located 5' from end of curb returns or at property line between lots.
3. Place valves at P. T. of curb returns.
4. Pipe crown shall be a minimum of 3' - 8" below top of curb.
5. Vertical flange of fire hydrants are to be 5" above top of curb.
6. Water and sewer lines shall be separated by a minimum of 10' horizontally.

11-21-00

20 012 0328

APPROVALS	
CITY ENGINEER	ASST CITY ENGINEER-DESIGN
DATE 4/12/79	DATE 11 Apr 79
LIQUID WASTE ENGINEER	WATER ENGINEER
DATE 5 Apr 79	DATE 5 Apr 79
ASST CITY ENGINEER-HYDROLOGY	TRAFFIC ENGINEER
DATE 4/16/79	DATE 4-5-79
APPROVED FOR CONSTRUCTION	
CITY ENGINEER	7/12/79 DATE

Revisions	Date

VISTA FOUR HILLS SUBDIVISION
PHASE I ~~& PHASE II~~

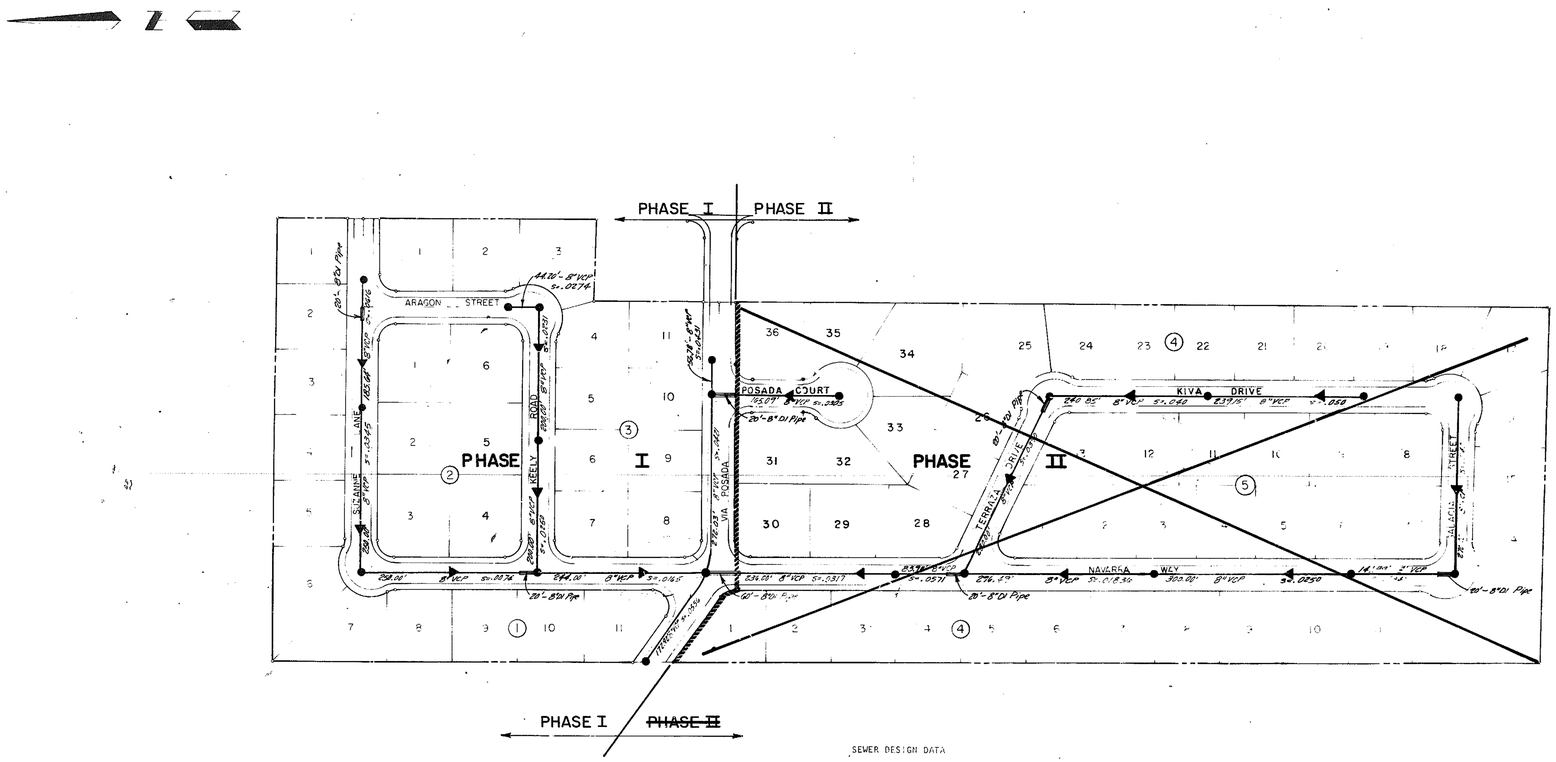
Project No. C-28-12

Seal

PROPOSED WATER DESIGN

ALBUQUERQUE, NEW MEXICO.

Job No. 77-207	Sheet 3 of 17
Drawn By JLM	Date DEC.1978
Checked By RRB	Scale 1"= 100'



SEWER DESIGN DATA

Maximum total Flow from the Vista Four Subdivision will be through Line S-8 to the West. Therefore,

77 Lots x 3.6 Persons/Lot x 400 gpd/Person = 110,880 gpd or 0.11 MGD

At a minimum velocity of 2.45 FPS in an 8" VC Pipe, the minimum slope is 0.5%; therefore, the capacity of the sewer line is Q=0.552 MGD>0.11 MGD @ n=0.013; slope 0.5%

NOTE:

Water and sewer lines shall be separated by a minimum of 10' horizontally.

LEGEND

- PROPOSED SANITARY SEWER W/FLOW DIRECTION
- PROPOSED SANITARY MANHOLE
- SANITARY MANHOLE (EXISTING LINE)
- D.I. PIPE

M Kearney
11-21-80

20 012 0428

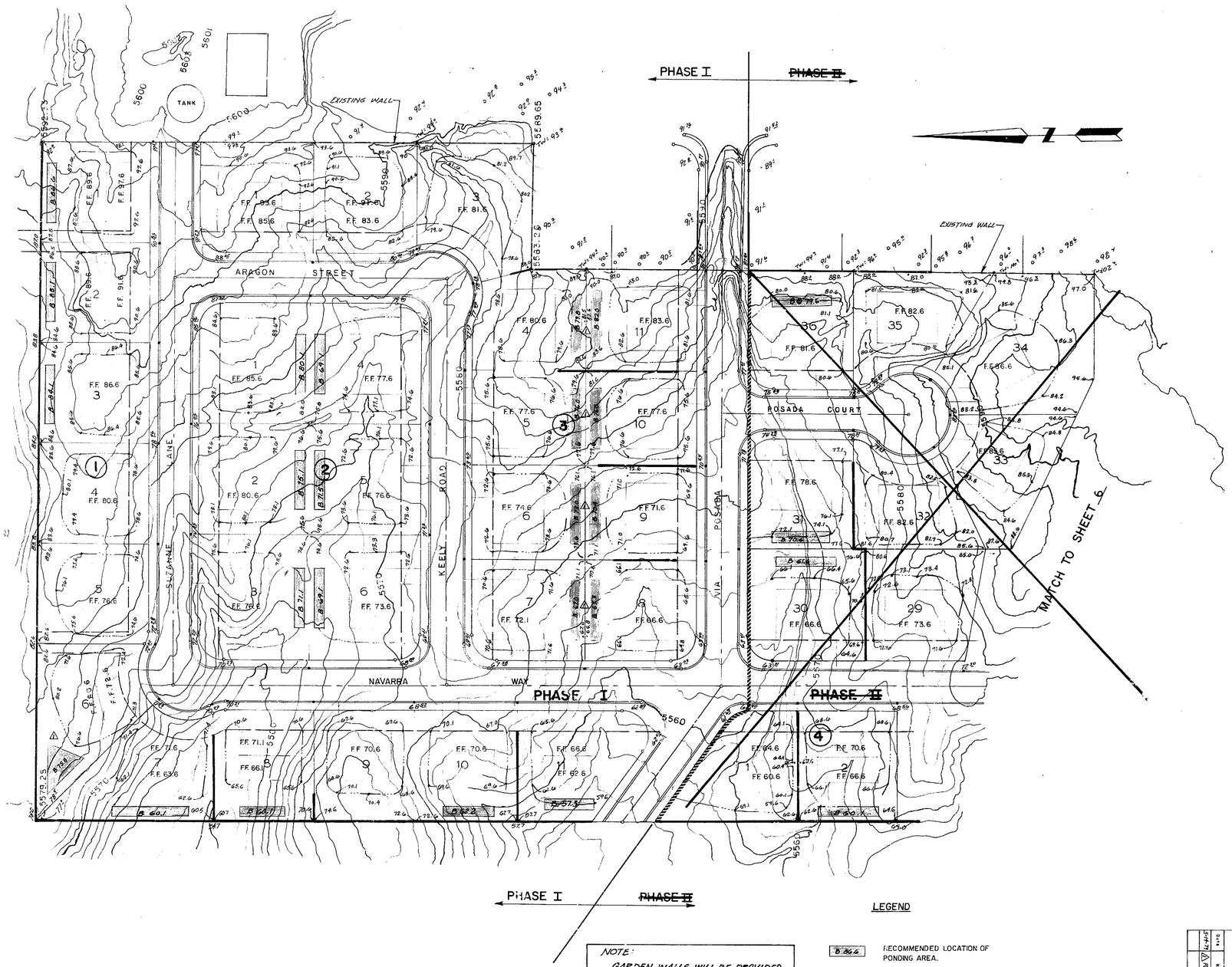
APPROVALS	
CITY ENGINEER — DATE 8/17/79	ASST. CITY ENGINEER-DESIGN — DATE 11 Apr 79
LIQUID WASTE ENGINEER — DATE 5 April 79	WATER ENGINEER — DATE 5 April 79
ASST. CITY ENGINEER-HYDROLOGY — DATE 4/16/79	TRAFFIC ENGINEER — DATE 4-23-79
APPROVED FOR CONSTRUCTION — CITY ENGINEER — DATE 7/16/79	

VISTA FOUR HILLS SUBDIVISION
PHASE I ~~& PHASE II~~

C-28-12 PROPOSED SEWER DESIGN.

ALBUQUERQUE, NEW MEXICO

Job No. 77-207	Sheet 4 of 17		
Drawn by JLM	Date DEC. 1978		
Designed by RRB	1"=100'		



APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER-FIELD
DATE

APPROVALS	
ASST. CITY ENGINEER-DESIGN	CITY ENGINEER
DATE 19 Apr 79	DATE 4/19/79
WATER ENGINEER	LIQUID WASTE ENGINEER
DATE	DATE
TRAFFIC ENGINEER	ASST. CITY ENGINEER-HYDROLOGY
DATE 4-17-79	DATE 4/17/79
APPROVED FOR CONSTRUCTION:	
CITY ENGINEER	DATE 7/12/79

NOTE:

GARDEN WALLS WILL BE PROVIDED WHERE RETAINING WALLS ARE NOT INDICATED.

RETAINING WALL ON NORTH AND WEST BOUNDARY AS REQUIRED.

LEGEND

B 86.6	RECOMMENDED LOCATION OF PONDING AREA.
— — —	20' SET BACK LINE
————	REQUIRED SOLID MASONRY WALL
12	LOT NUMBER
F.F. 99.1	FINISH FLOOR ELEVATION
————	EXISTING WALL

20 012 0528

Date	Revisions
5-24-79	Ponding areas lots 4-11 & 3 & Blk 1

VISTA FOUR HILLS SUBDIVISION
PHASE I ~~& PHASE II~~

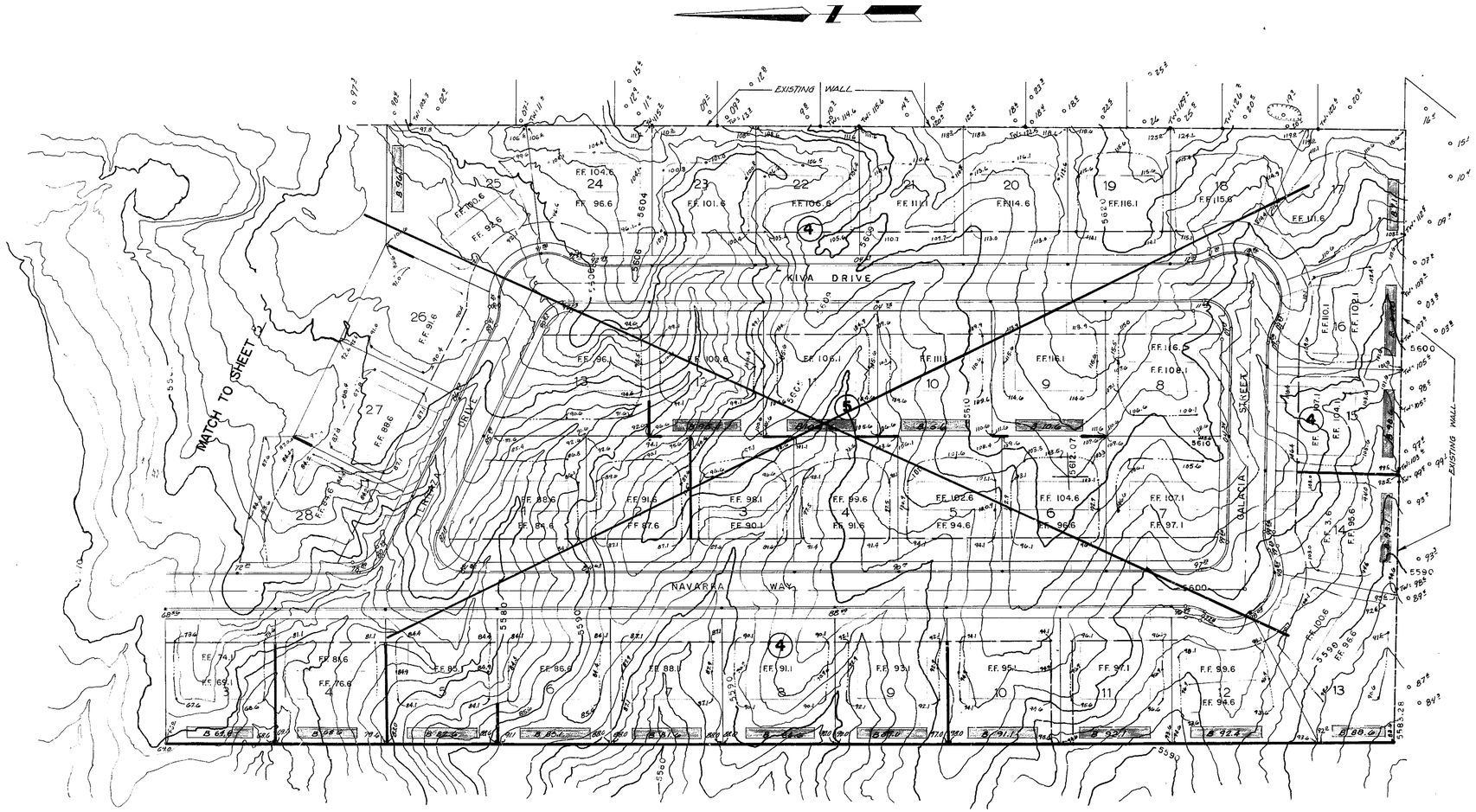
Project: C-28-12

Seal: STATE OF NEW MEXICO No. 5194 REGISTERED PROFESSIONAL ENGINEER

CONCEPTUAL GRADING PLAN
NORTH SIDE

ALBUQUERQUE, NEW MEXICO

Job: 77-207	Sheet 5 of 17	
Drawn by: JLM	Date: DEC. 1978	
Checked by: RRB	Scale: 1" = 50'	



APPROVALS	
ASST. CITY ENGINEER-DESIGN DATE 12 Apr 79	CITY ENGINEER DATE 4/12/79
WATER ENGINEER DATE	LIQUID WASTE ENGINEER DATE
TRAFFIC ENGINEER DATE 4-12-79	ASST. CITY ENGINEER-HYDROLOGY DATE 4/10/79
APPROVED FOR CONSTRUCTION: CITY ENGINEER	DATE 7/12/79

NOTE:

GARDEN WALLS WILL BE PROVIDED WHERE RETAINING WALLS ARE NOT INDICATED.

RETAINING WALL ON NORTH AND WEST BOUNDARY AS REQUIRED.

LEGEND

88.6	RECOMMENDED LOCATION OF PONDING AREA.
— — —	20' SET BACK LINE
———	REQUIRED SOLID MASONRY WALL
12	LOT. NUMBER
F.F. 99.1	FINISH FLOOR ELEVATION
— — —	EXISTING WALL

20 012 0628

Date
Revisions

VISTA FOUR HILLS SUBDIVISION PHASE II

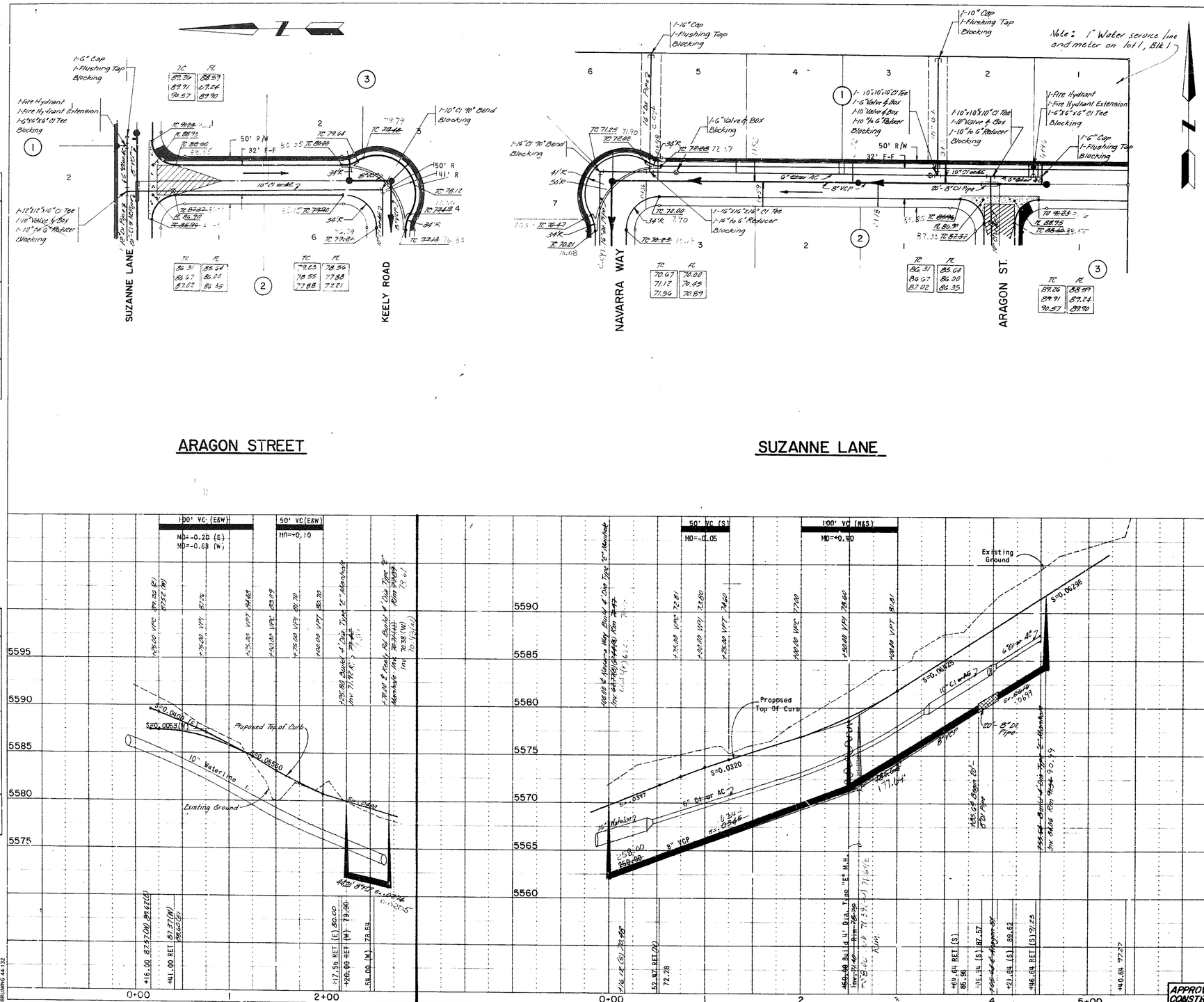
Project C-28-12

CONCEPTUAL GRADING PLAN SOUTH SIDE

ALBUQUERQUE, NEW MEXICO

Seal: STATE OF NEW MEXICO — MICHAL M. LEWY — PROFESSIONAL ENGINEER

Job No. 77-207	Sheet 6 of 11
Drawn By JLM	Date DEC. 1978
Checked By RRB	Scale 1" = 50'



ARAGON STREET

SUZANNE LANE

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

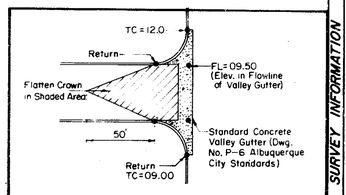
BRUNING 44 132

20 012 0728

— LEGEND —

Direction of Street Drainage

Direction of Sewer Drainage with Service Line Stubouts



TYPICAL VALLEY GUTTER DETAIL
NO SCALE

PLAN		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RS, STS WERE CHECKED		

PROFILE		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	BLANKS FILLED		
	STRUCTURE NOTATNS CHKD		

AS-BUILT INFORMATION	
CONTRACTOR	Co. Cen
WORK STAKED BY	Civil Eng. DATE 7/1/79
DRAWING CORRECTED BY	Co. Eng. DATE 7/31/79

MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO.	

BENCH MARKS
A square, ☐, chiseled on top of the concrete curb at the NW curb return, located at the intersection of Wagon Train Dr. SE and Tao St. S.E. Elev. 5620.75

SURVEY INFORMATION			
FIELD NOTES			
NO.	BY	DATE	

REFERENCES	
MAP NO. M-22	W.O. NO.
EST. NO.	

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	R.L.L.	DATE DEC. 1978
DRAWN BY	J.L.M.	DATE DEC. 1978
CHECKED BY	R.R.B.	DATE DEC. 1978

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: VISTA FOUR HILLS SUBDIVISION
PHASE I
ARAGON STREET & SUZANNE LANE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		9/10/79	Liquid Waste		
A.C.E.-Design		9/10/79	Traffic	KC Green	9/27/79
A.C.E.-Hydrology		9/10/79	Water		

77-207

WINTERSMITH & MOLZEN INC.

APPROVED FOR CONSTRUCTION
CITY ENGINEER 7/12/79 DATE

SCALE: 1" = 50' HOR.
1" = 5' VERT.

DRAWING NO. C-28-12

SHEET 7 OF 17

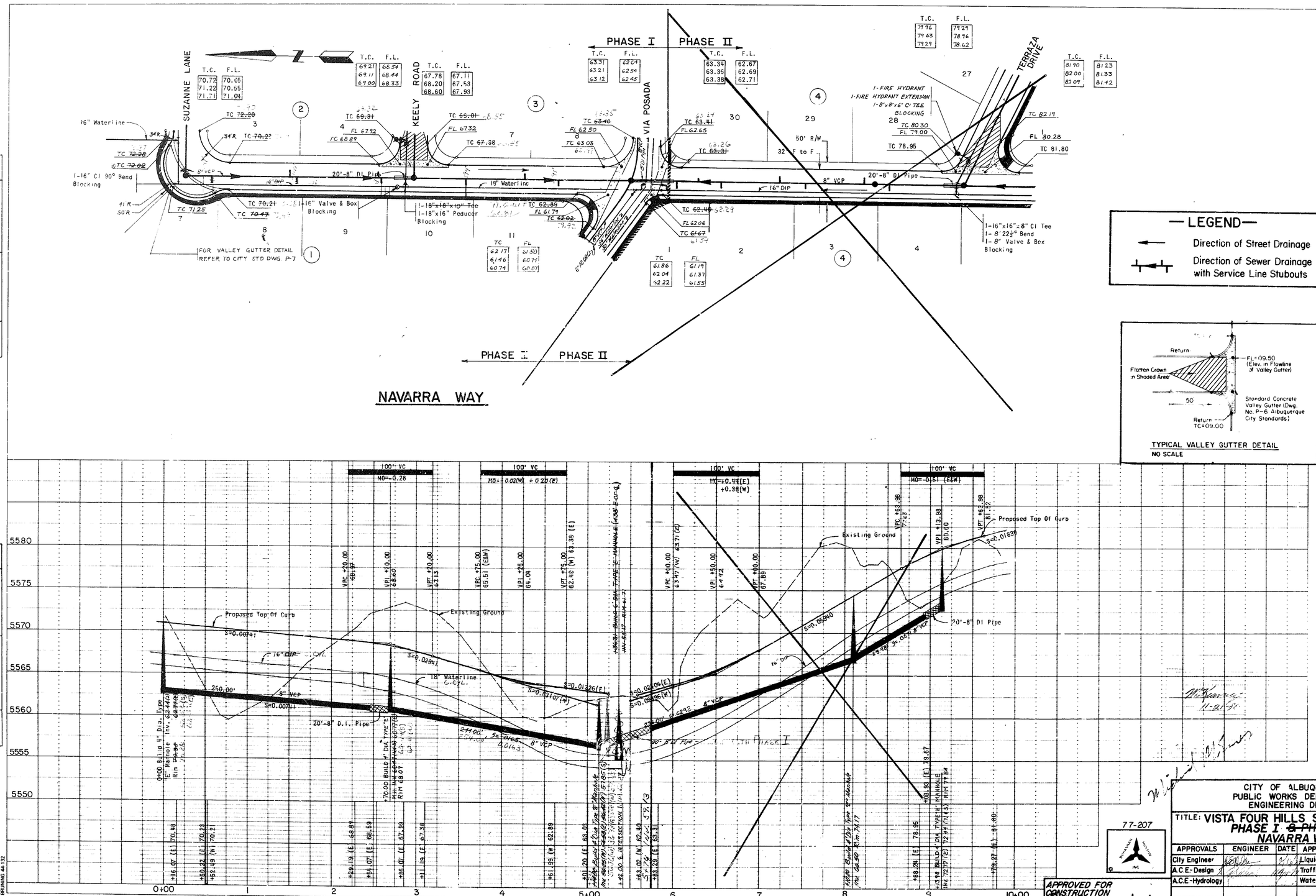


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

BRUNING 44-132

20 012 828

PLAN — SURVEYED, PLOTTED, GRADES CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED. NOTE BOOK NO. BY DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M.'s NOTED, STRUCTURE NOTATIONS CHKD. NOTE BOOK NO. BY DATE

AS-BUILT INFORMATION
CONTRACTOR
WORK ACCEPTED BY DATE
WORK CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
A square ☒ chiseled on top of the concrete curb at the NWC curb return. Located at the intersection of Wagon Train Dr. SE and Tao St. SE. Elev. 5220.75

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. M-22
EST. NO. W.O. NO.

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY RLL DATE DEC. 1978
DRAWN BY DHJ DATE DEC. 1978
CHECKED BY RRB DATE DEC. 1978

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: VISTA FOUR HILLS SUBDIVISION
PHASE I ~~& PHASE II~~
NAVARRA WAY

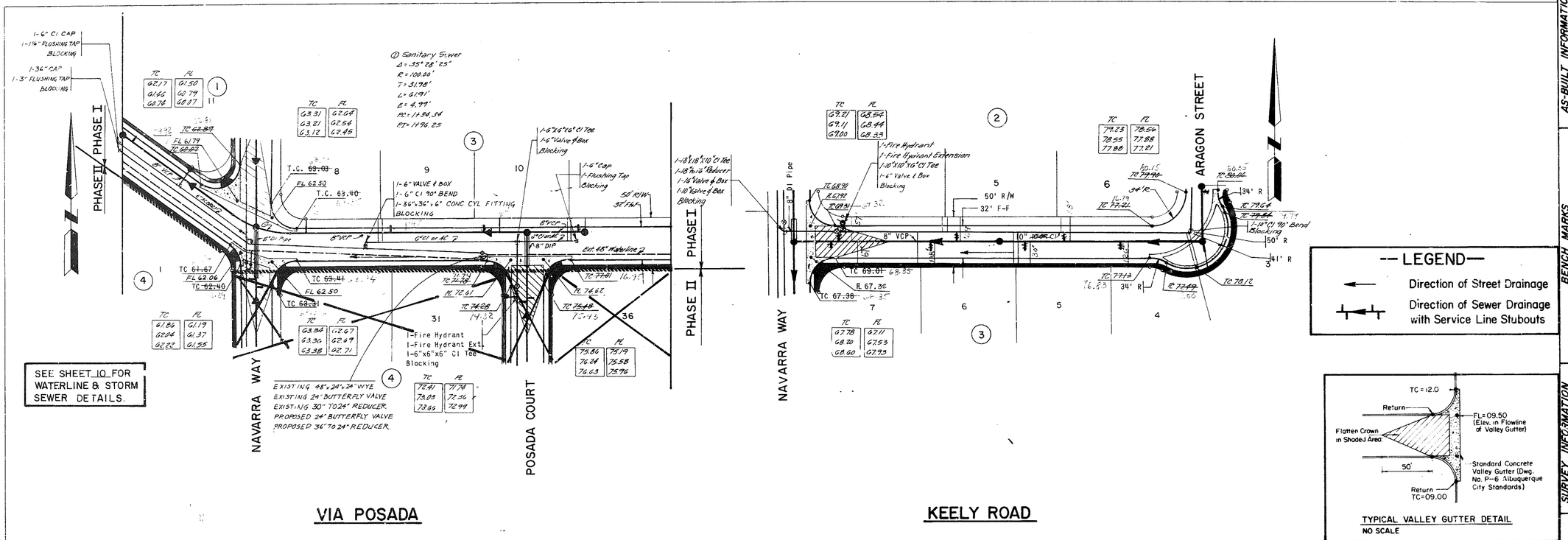
77-207

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic	RC Bergant	4-3-79
A.C.E.-Hydrology			Water		

APPROVED FOR CONSTRUCTION
CITY ENGINEER 7/12/79 DATE

SCALE: 1"=50' HOR. 1"= 5' VERT.

DRAWING NO. C-28-12 SHEET 8 OF 17



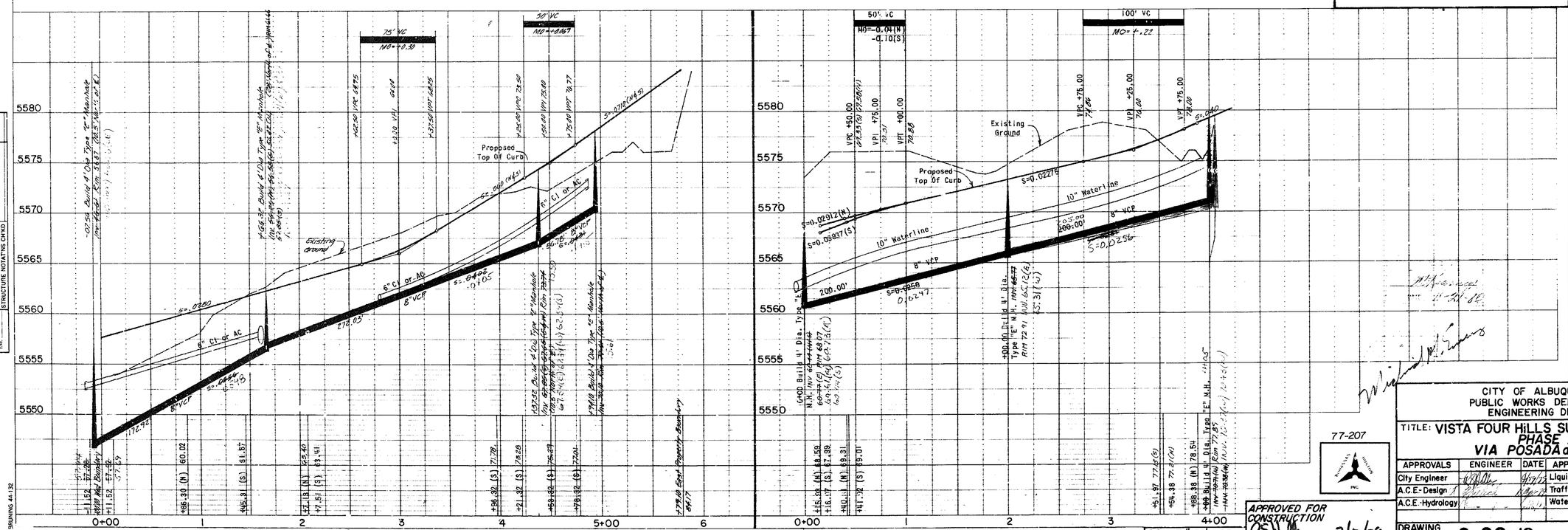


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

SCALE: 1"=50' HOR. 1"=5' VERT.

APPROVED FOR CONSTRUCTION
CITY ENGINEER 7/10/79 DATE

77-207

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: VISTA FOUR HILLS SUBDIVISION
PHASE I
VIA POSADA and KEELY RD.

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO. C-28-12

SHEET 9 OF 17

AS-BUILT INFORMATION
CONTRACTOR
WORK ACCEPTED BY DATE
CORRECTIONS DONE BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
A square, ☐, chiseled on top of concrete curb at the NWC curb return, located at the intersection of Wagon Train Dr. SE and Tara St. SE, Elev. 50.20.75.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

REFERENCES
MAP NO. M-22
EST. NO.
W.O. NO.

REVISIONS
NO. DATE REMARKS BY
4/79 8" VCP at Intersection have a Max. 1/16 Scale Ver.

DESIGN
DESIGNED BY RLL DATE DEC. 1978
DRAWN BY DHJ DATE DEC. 1978
CHECKED BY RRB DATE DEC. 1978

General Notes:

1. Sanitary Sewer in curve has maximum length of 39'.
2. All construction shall be to New Mexico Standard Specifications for Public Works 1975 Edition.

① Sanitary Sewer
Δ = 35°26'25"
R = 100.00'
T = 31.98'
L = 61.91'
E = 4.99'
PC = 1+34.36
PT = 1+96.25
(See Note #1)

② Storm Sewer
Δ = 35°26'25"
R = 45.00'
T = 14.39'
L = 27.86
PC = 1+51.93
PT = 1+79.79
(See Note #2).

— LEGEND —
Direction of Street Drainage
Direction of Sewer Drainage with Service Line Stubouts

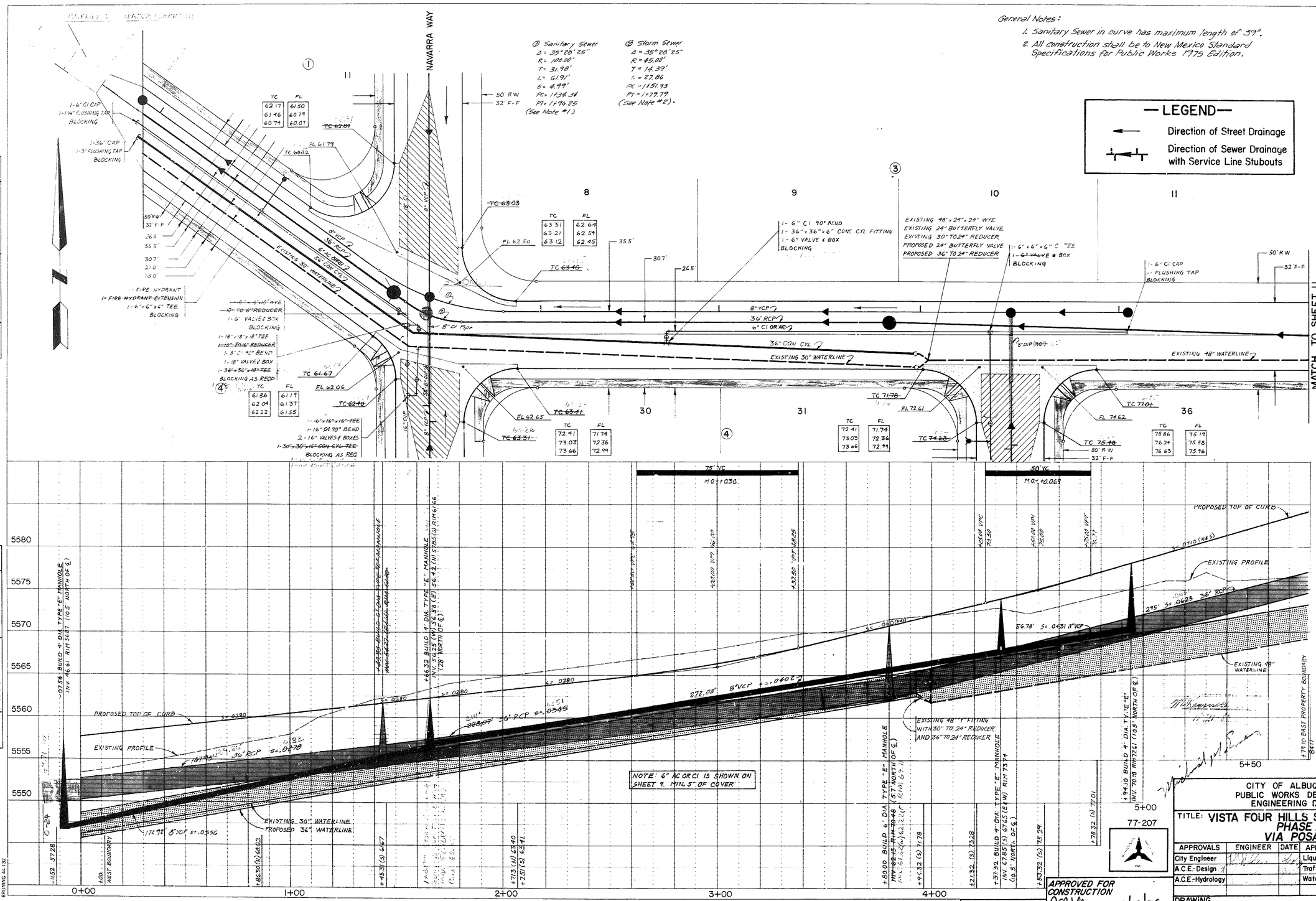


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

SCALE: 1" = 20' Hor., 1" = 5' Vert.

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE 7/12/79

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: VISTA FOUR HILLS SUBDIVISION
PHASE I
VIA POSADA

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer			Liquid Waste		
A.C.E.-Design			Traffic		
A.C.E.-Hydrology			Water		

DRAWING NO. C-28-12

SHEET 10 OF 17

DESIGNED BY — DATE Apr. 1979
DRAWN BY RJT and JNH — DATE Apr. 1979
CHECKED BY — DATE Apr. 1979

REVISIONS

NO.	DATE	REMARKS	BY
1	6/79	Rev. RCP & WVCP at intersection of Navarra Way & Via Posada	JDB

REFERENCES
MAP NO. M-22
EST. NO.
W.O. NO.

SURVEY INFORMATION

NO.	BY	DATE
	FIELD NOTES	

BENCH MARKS
A square in chiseled on top of the concrete curb of the NW curb return, located at the intersection of Wagon Train Dr. S.E. and 78th St. S.E., Elev. 5620.75.

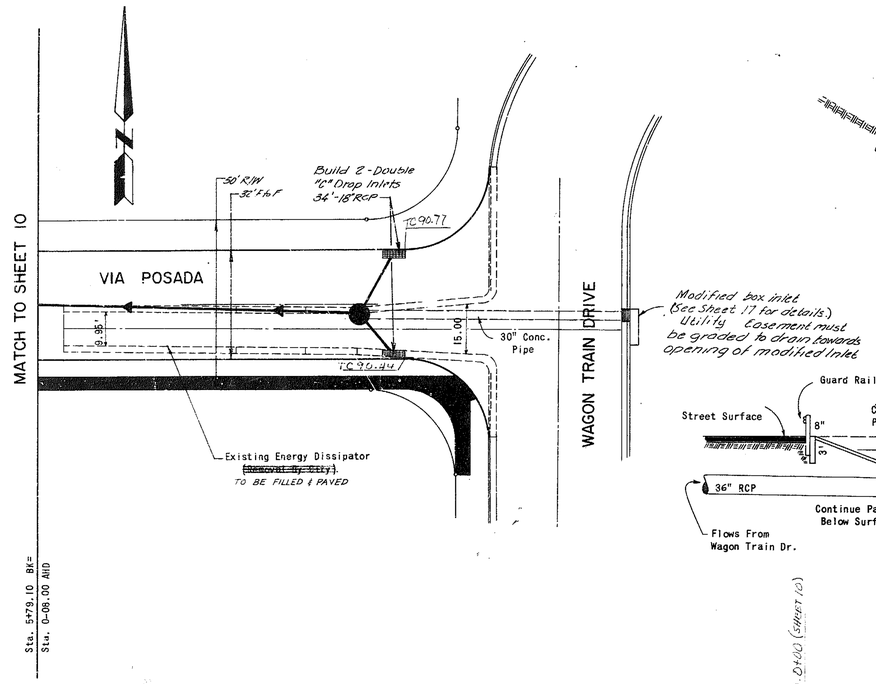
AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
WORK INSPECTED BY — DATE
CORRECTED BY — DATE

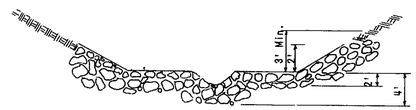
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

PLAN
NOTE BOOK NO.
SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED
BY / DATE

PROFILE
NOTE BOOK NO.
SURVEYED / PLOTTED / GRADES CHECKED / B.M.'s NOTED / STRUCTURE NOTATIONS CHKD
BY / DATE

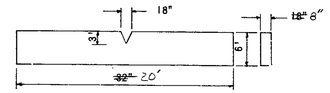
BRUNING 4c-132





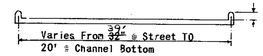
RIP RAP SECTION

NO SCALE



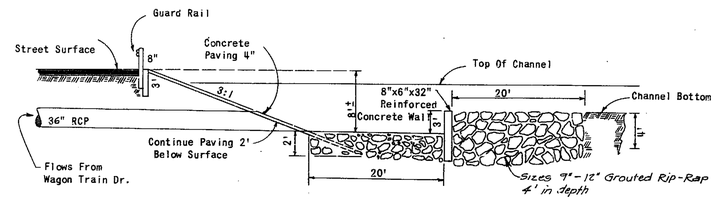
IMPACT WALL

NO SCALE



RUNDOWN SECTION

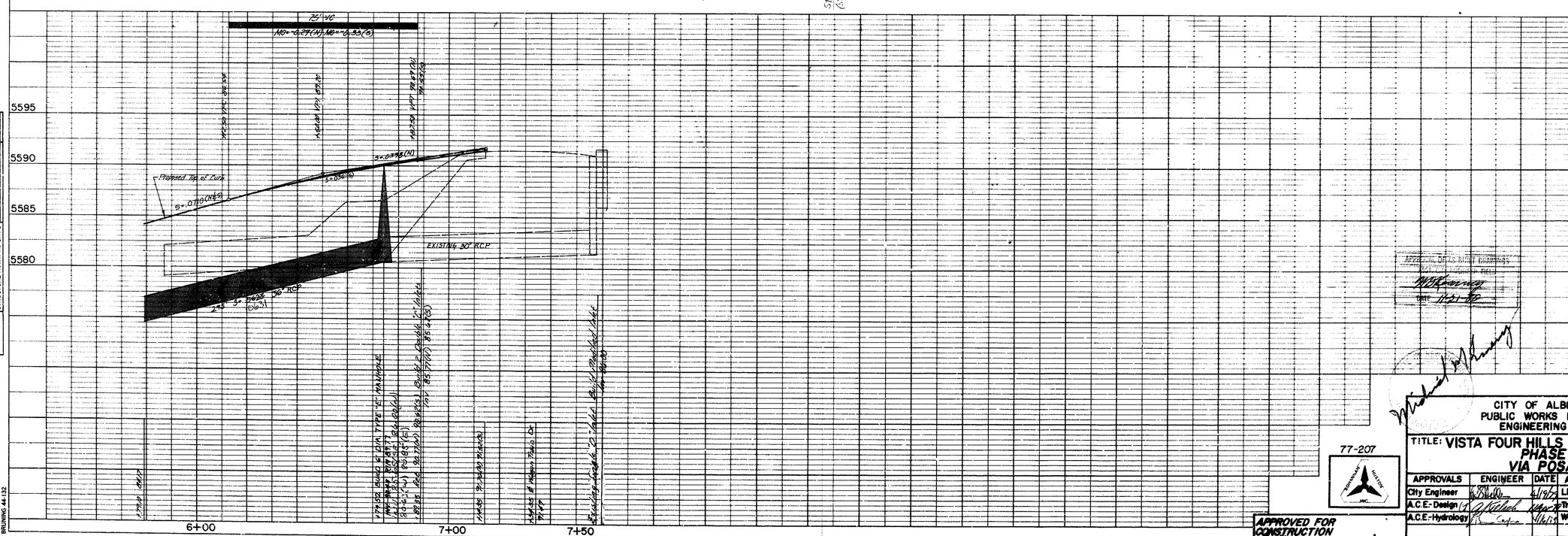
NO SCALE



ENERGY DISSIPATOR

STA. 0+00 (SHEET 10)

STA. 2+14 (SHEET 10)



PLAN — SURVEYED, PLOTTED, DRAWN, RT. OF WAY CHECKED, ALIGNMENT CHECKED, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, DRAWN, ALIGNMENT CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

BRUNING 44-132

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

20 0 1 2 1 1 28

SCALE: 1" = 20' HOR.
1" = 5' VERT.

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE 7/12/79

77-207

SOUTHWEST SURVEYS INC.

APPROVAL OF AS BUILT DRAWINGS
BASED ON FIELD INSPECTION
DATE 11-21-79

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

A square ⊡ chiseled on top of the concrete curb at the NNE curb return. Located at the intersection of Wagon Train Dr. S.E. and Yoro St. S.E.
Elev. 5420.75

AS-BUILT INFORMATION

CONTRACTOR Co-Con
WORK INSPECTED BY C.J. Barber DATE 4/16/79
WORK CORRECTED BY Ed Tinkson DATE 11/16/79

MICRO-FILM INFORMATION

RECORDED BY
DATE
NO.

REFERENCES

MAP NO. H-22
EST. NO.
W.O. NO.

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

DESIGNED BY RLL — DATE DEC. 1978
DRAWN BY JLM — DATE DEC. 1978
CHECKED BY RRB — DATE DEC. 1978

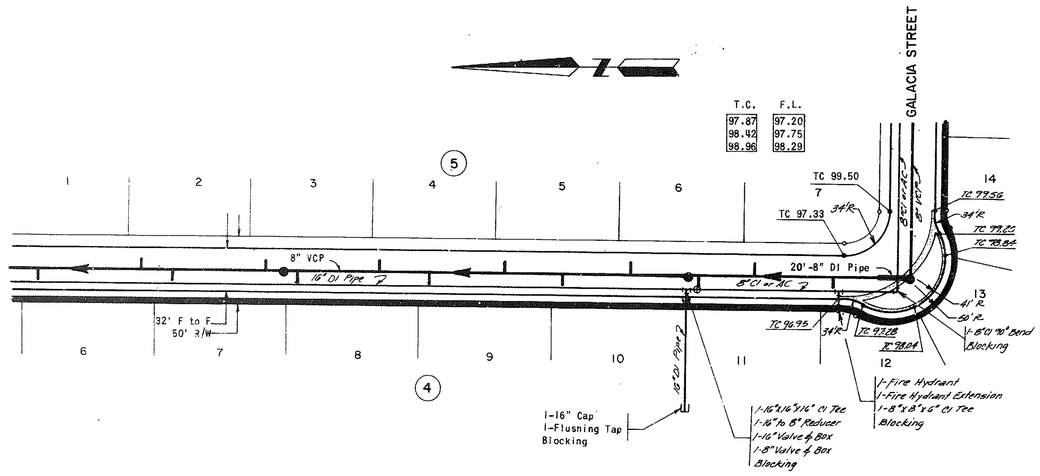
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: VISTA FOUR HILLS SUBDIVISION
PHASE I
VIA POSADA

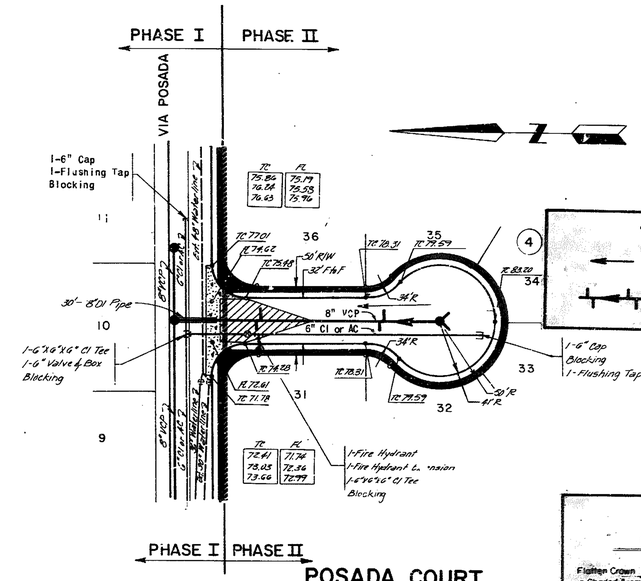
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		4/16/79	Liquid Waste		
A.C.E.-Design			Traffic		4-27-79
A.C.E.-Hydrology		4/16/79	Water		5-4-79

DRAWING NO. C-28-12

SHEET 11 OF 17



NAVARRA WAY

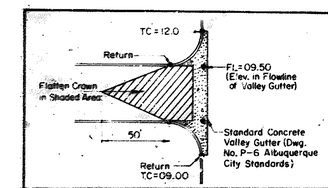


POSADA COURT

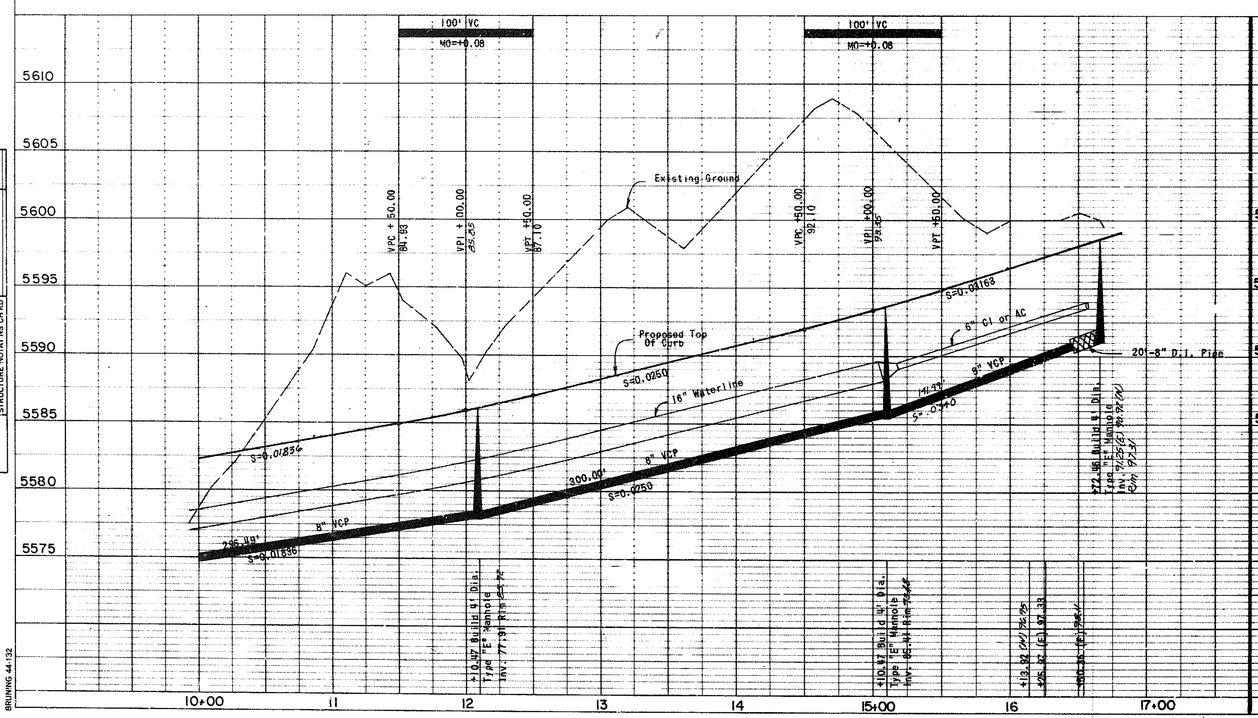
— LEGEND —

Direction of Street Drainage

Direction of Sewer Drainage with Service Line Stubouts



TYPICAL VALLEY GUTTER DETAIL
NO SCALE



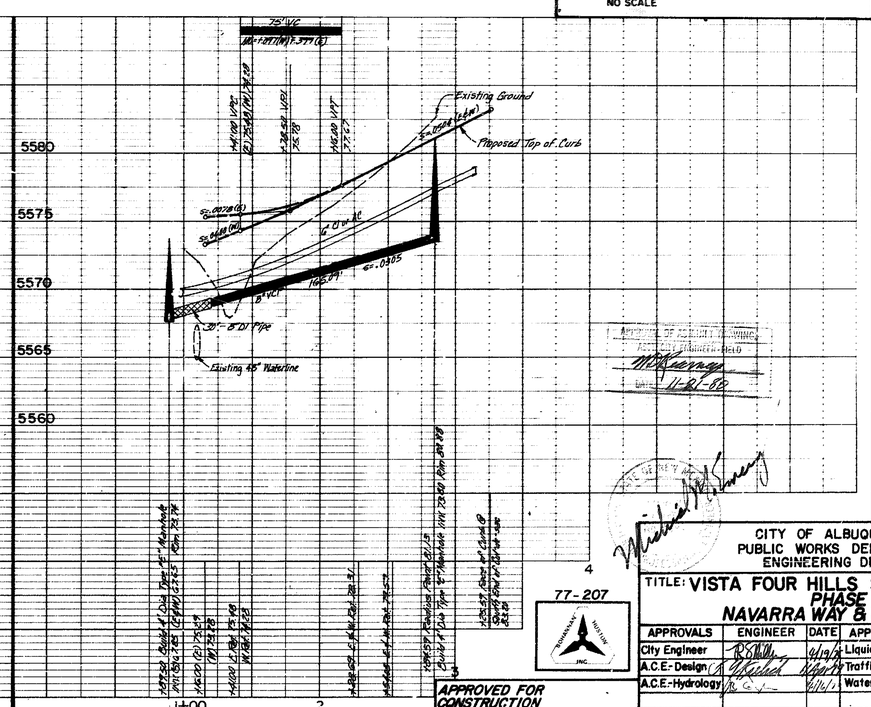


PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

BRUNING 44-132

PLAN — SURVEYED, PLOTTED, HIGHWAY CHECKED, RT. OF WAY CHECKED — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD — NOTE BOOK NO. — BY — DATE

AS-BUILT INFORMATION
CONTRACTOR — WORK ACCEPTED BY — DATE
WORK INSPECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
A square 10, chiseled on top of the concrete curb at the NW curb return. Located at the intersection of Wagon Train Dr. S.E. and Tara Dr. SE. Elev = 5220.75.

SURVEY INFORMATION
FIELD NOTES — NO. — BY — DATE

REFERENCES
MAP NO. M-22 — W.O. NO. — EST. NO.

REVISIONS — NO. — DATE — REMARKS — BY

DESIGN
DESIGNED BY RLL — DATE DEC 1978
DRAWN BY DHJ — DATE DEC 1978
CHECKED BY RRB — DATE DEC 1978

77-207

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE 7/12/79

SCALE: 1"=50' HOR. 1"=5' VERT.

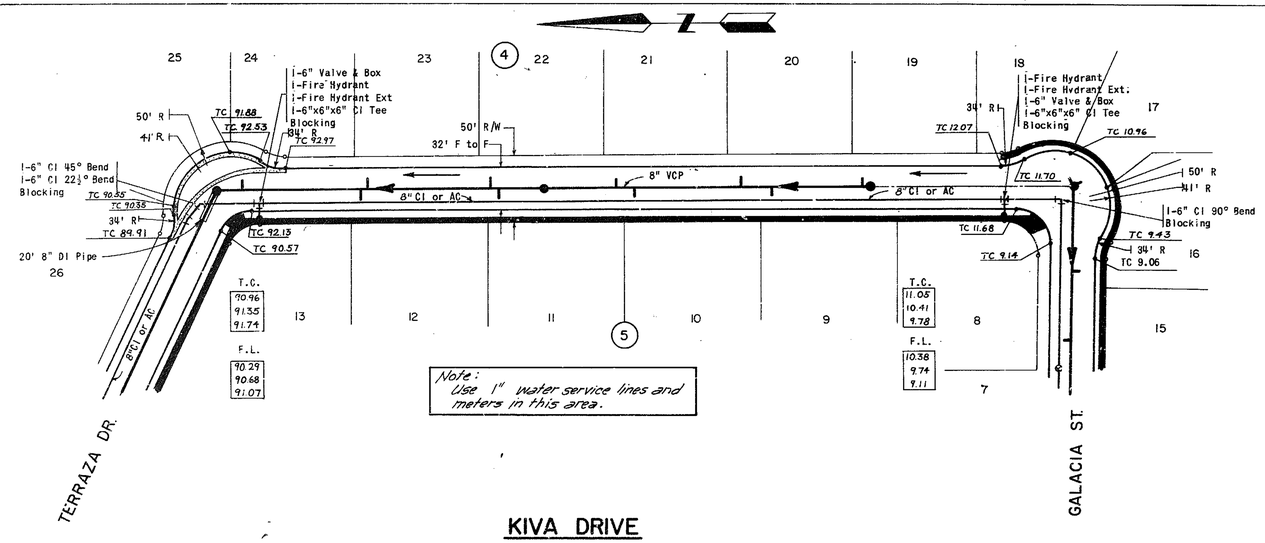
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: VISTA FOUR HILLS SUBDIVISION
PHASE II
NAVARRA WAY & POSADA COURT

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		6/19/79	Liquid Waste		6/19/79
A.C.E.-Design		6/19/79	Traffic	RC Bryant	4-3-79
A.C.E.-Hydrology		6/19/79	Water		5/30/79

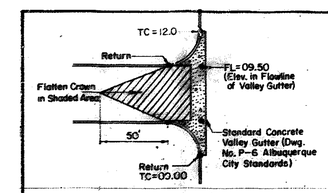
DRAWING NO. C-28-12

SHEET 12 OF 17



— LEGEND —

- Direction of Street Drainage
- Direction of Sewer Drainage with Service Line Stubouts



TYPICAL VALLEY GUTTER DETAIL
NO SCALE

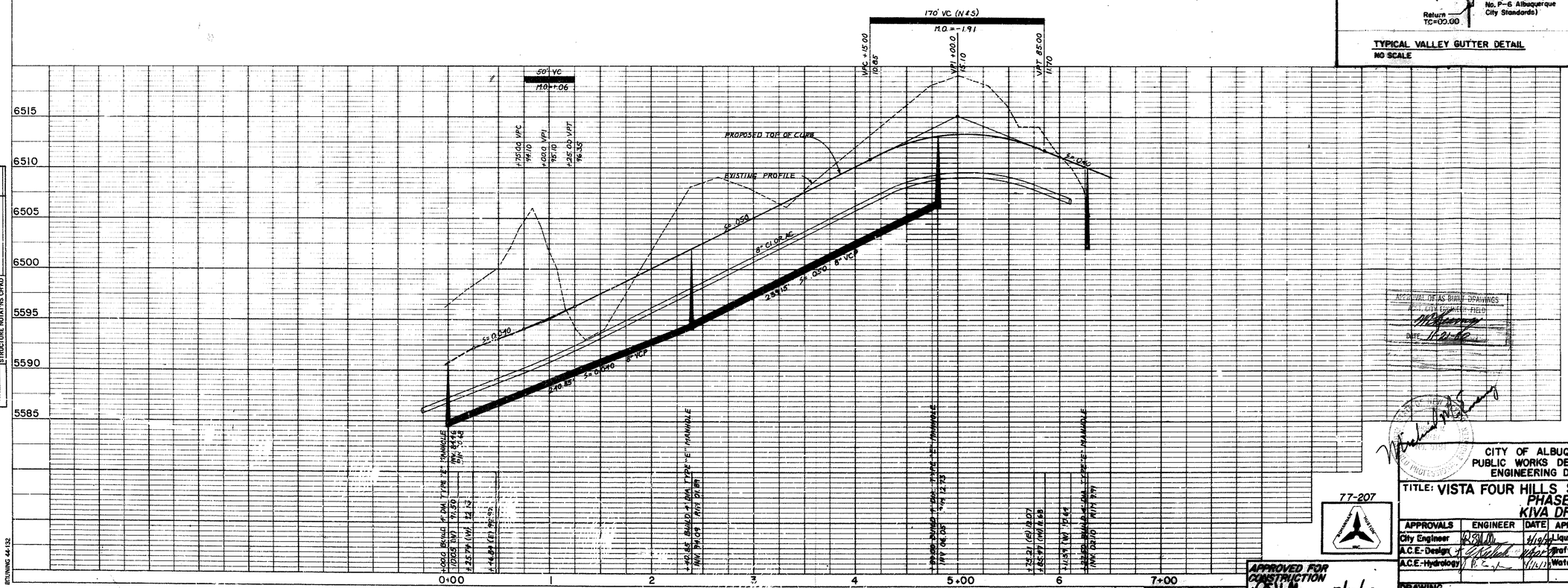


PLATE 1 SINGLE FLOW - PROFILE
CHARLES W. DUNING CO.
MADE IN U.S.A.

SCALE: 1" = 50' HOR.
1" = 5' VERT.

APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE 7/12/79

ACCEPTANCE OF AS BUILT DRAWINGS
BY CITY ENGINEER - FIELD
DATE 11-21-80

77-207

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: VISTA FOUR HILLS SUBDIVISION
PHASE II
KIVA DRIVE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		4/19/79	Liquid Waste		5 Apr 79
A.C.E.-Design		4/19/79	Traffic	R.C. Bryant	4-3-79
A.C.E.-Hydrology		4/19/79	Water		5 Apr 79

DRAWING NO. C-28-12

SHEET 13 OF 17

AS-BUILT INFORMATION
CONTRACTOR
WORK ACCEPTED BY — DATE
CONSTRUCTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
A square, ID, chiseled on top of the concrete curb at the NWC curb return. Located at the intersection of Mojon Trail Dr. S.E. and Tao St. SE., Elev. 5620.75

SURVEY INFORMATION
FIELD NOTES
NO. — BY — DATE

REFERENCES
MAP NO. M-22 — W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY
		REVISIONS	

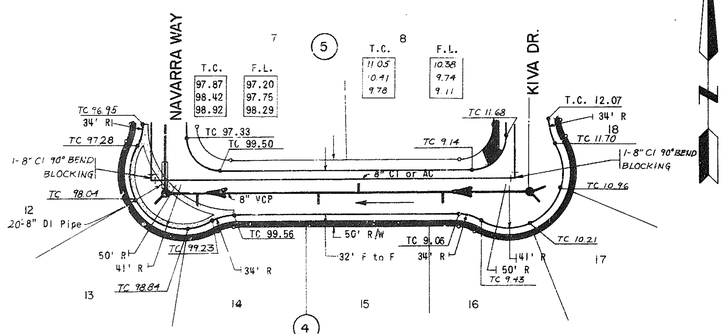
DESIGNED BY R.L.L. — DATE DEC. 1978
DRAWN BY J.L.M. — DATE DEC. 1978
CHECKED BY R.R.B. — DATE DEC. 1978

PLAN — SURVEYED, PLOTTED, GRADES CHECKED, RIGHT OF WAY CHECKED — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, BLUE STAKES, STRUCTURE NOTATNS CHKD — NOTE BOOK NO. — BY — DATE

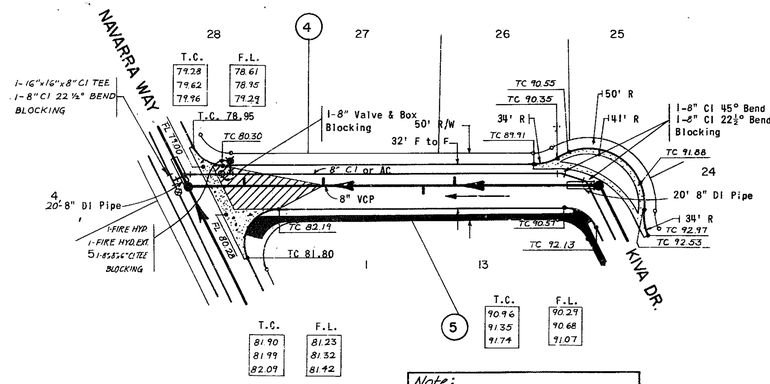
BRUNING 44-132

20 0112 1328



Note:
Use 1" water service lines and meters in this areas

GALACIA STREET



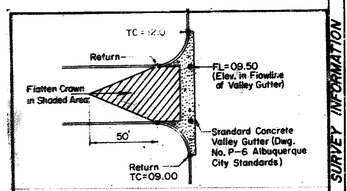
Note:
Use 1" water service lines and meters in this area.

TERRAZA DRIVE

— LEGEND —

Direction of Street Drainage

Direction of Sewer Drainage with Service Line Stubouts



TYPICAL VALLEY GUTTER DETAIL
NO SCALE

PLATE 1 SINGLE PLAN - PROFILE
CHARLES BRUNING CO.
MADE IN U.S.A.

BRUNING 44-132

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	CALCULATIONS CHECKED		
	RT. OF WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	RT. OF WAY CHECKED		
	STRUCTURE NOTATNS CHKD		

AS-BUILT INFORMATION

CONTRACTOR
WORK ACCEPTED BY — DATE
WORK CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

A square ☐ chiseled on top of the encased curb at the NWC curb return. Located at the intersection of Mesquo Trail Dr. S.E. and Tara St. S.E. Elev. 5620.75

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

REFERENCES

MAP NO. M-24 — W.O. NO.
EST. NO.

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY R.L.L. — DATE DEC. 1978
DRAWN BY J.L.M. — DATE DEC. 1978
CHECKED BY R.R.B. — DATE DEC. 1978

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: VISTA FOUR HILLS SUBDIVISION
PHASE II
GALACIA STREET & TERRAZA DRIVE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		6/12/79	Liquid Waste		4-3-79
A.C.E.-Design			Traffic		4-3-79
A.C.E.-Hydrology		6/16/79	Water		4-3-79

77-207

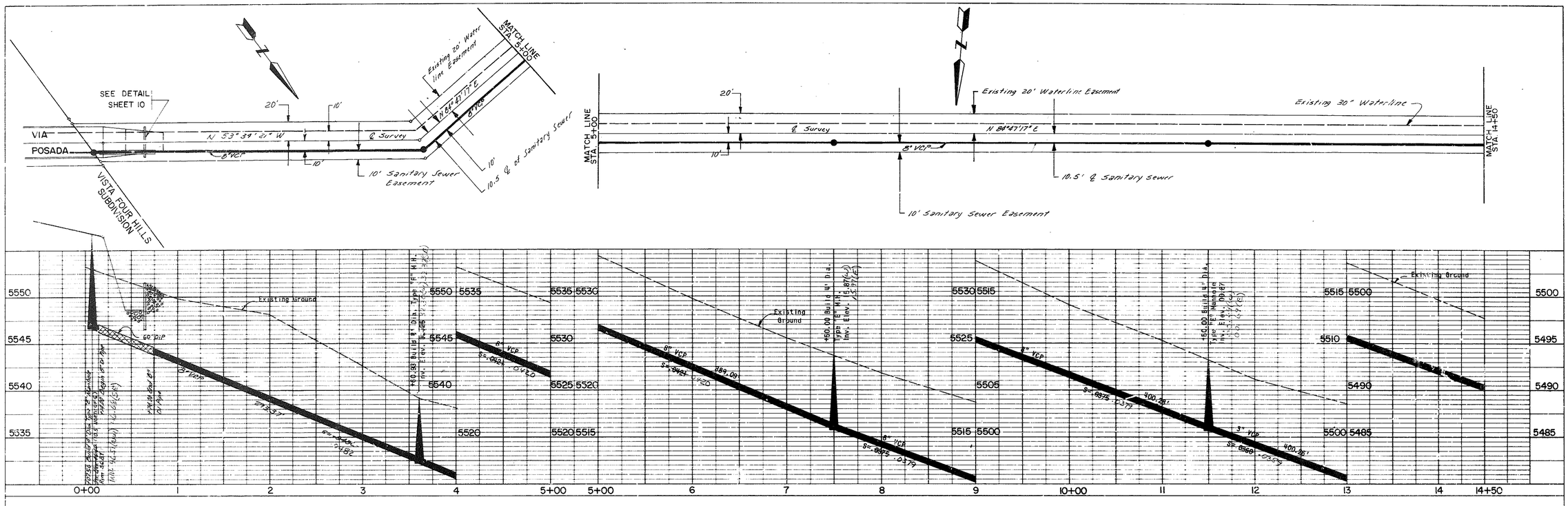
APPROVED FOR CONSTRUCTION
CITY ENGINEER — DATE 7/12/79

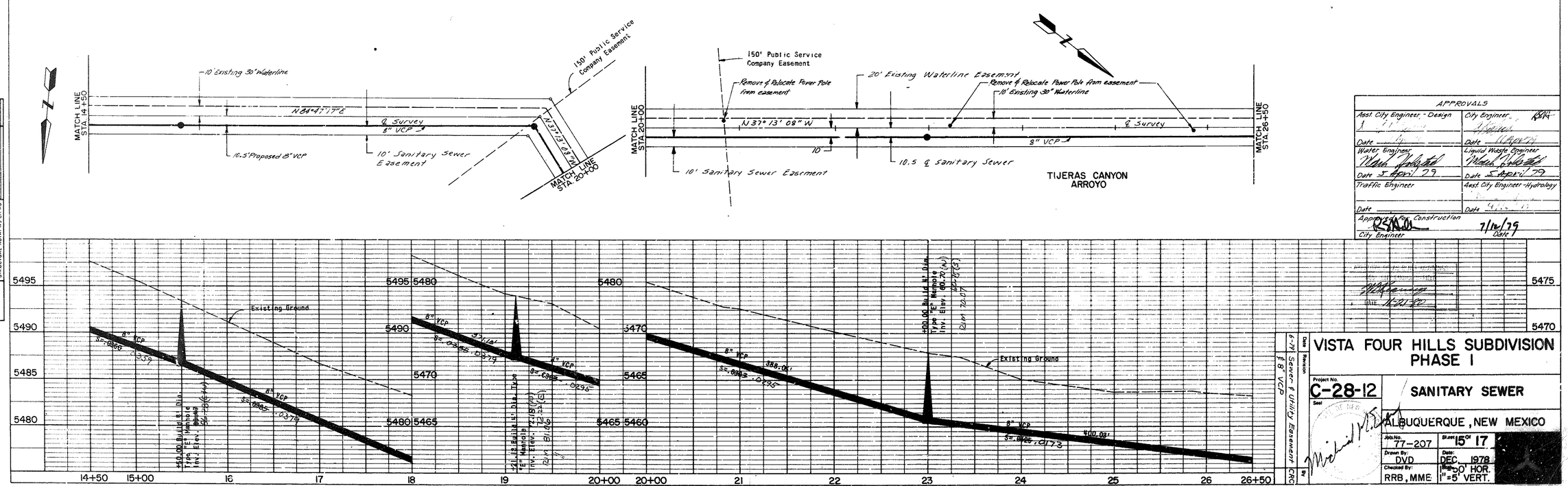
SCALE: 1"=50' HOR. 1"= 5' VERT.

DRAWING NO. C-28-12

SHEET 14 OF 17

120 | 0 | 1 | 2 | 1 | 1 | 4 | 2 | 8





APPROVALS	
Asst. City Engineer - Design	City Engineer
Date	Date
Water Engineer	Liquid Waste Engineer
Date 5 April 79	Date 5 April 79
Traffic Engineer	Asst. City Engineer - Hydrology
Date	Date
Approved: Construction City Engineer	Date 7/12/79

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / PLAN CHECKED / N.M. STATE PLANE COORDINATES CH'KD — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / PROFILE CHECKED / STRUCTURE NOTATIONS CH'KD — NOTE BOOK NO. — BY — DATE

VISTA FOUR HILLS SUBDIVISION PHASE I

Project No. C-28-12

SANITARY SEWER

ALBUQUERQUE, NEW MEXICO

Job No. 77-207 — Sheet 15 of 17

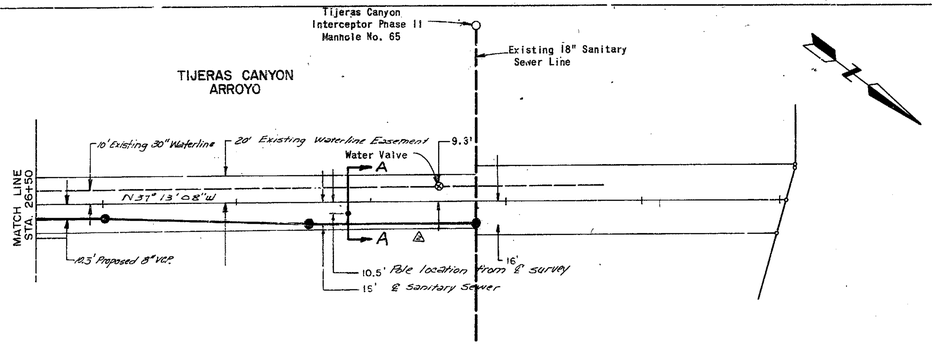
Drawn By: DVD — Date: DEC. 1978

Checked By: RRB, MME — Scale: 1" = 50' HOR. 1" = 5' VERT.

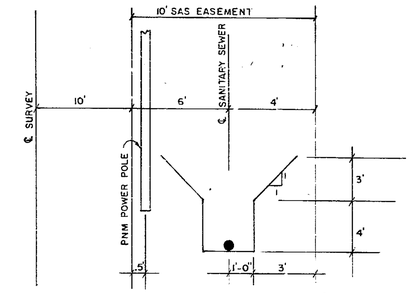
Revision: 6-79 Sewer & Utility Easement 8" VCP — By: CRG

PLATE 2 - DOUBLE PLAN - PROFILE
CHARLES BRUNING COMPANY
MADE IN U.S.A.

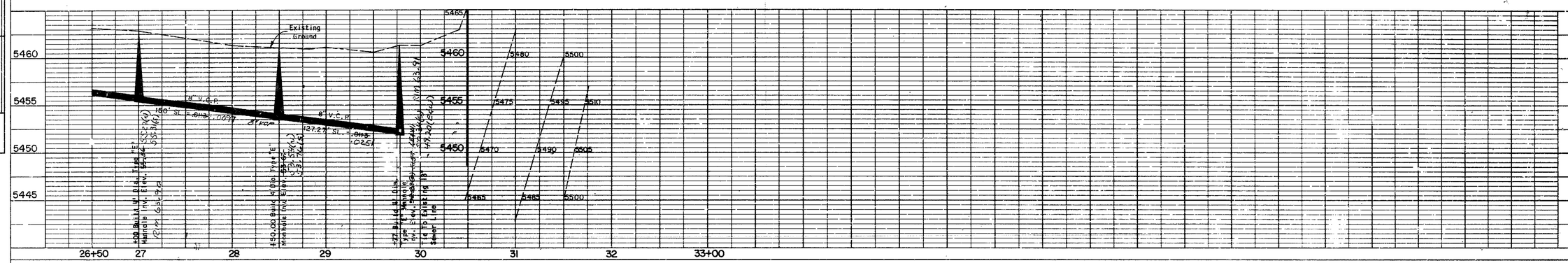
20 012 1528



NOTE: CONTRACTOR MUST COORDINATE CONSTRUCTION OF SANITARY SEWER LINE WITH PUBLIC SERVICE CO. OF NEW MEXICO PNM WILL BE ON SITE DURING CONSTRUCTION PAST EXISTING PNM POWER POLE.



SECTION AA
No Scale



PLAN
SURVEYED:
PLOTTED:
GRADES CHECKED:
BY: DATE
STRUCTURE NOTATIONS CHECKED:
BY: DATE
NOTE BOOK NO.

PROFILE
SURVEYED:
PLOTTED:
GRADES CHECKED:
BY: DATE
STRUCTURE NOTATIONS CHECKED:
BY: DATE
NOTE BOOK NO.

20 012 1628

APPROVALS

Asst. City Engineer-Design Date 11 Apr 79	City Engineer Date 11 Apr 79
Water Engineer Date 3 April 79	Liquid Waste Engineer Date 3 April 79
Traffic Engineer Date	Asst. City Engineer-Hydrology Date 4/16/79
Approved For Construction City Engineer	Date 7/12/79

AS-BUILT RECORD DRAWINGS
INSP. DATE
CONTR.
DATE

No.	Revision	Date
4	Sewer Joint Length Adjustment	6-79
3	Sewer Joint Length Adjustment	6-79
2		
1		

VISTA FOUR HILLS SUBDIVISION PHASE I

Project No. C-28-12
Sheet

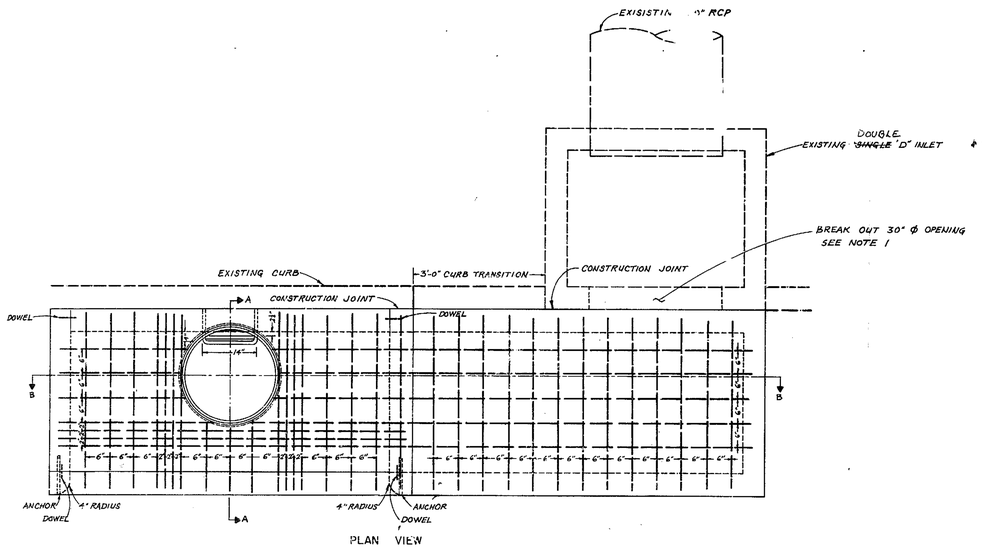
SANITARY SEWER

ALBUQUERQUE, NEW MEXICO

Job No. 77-207
Sheets 16 of 17
Drawn By: DVD
Date: DEC. 1978
Checked By: RRB, MME
Scale: 50' HOR. 1"=5' VERT.

STATE OF NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

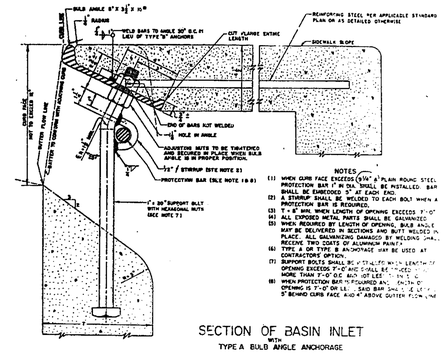
PLATE 2 - DOUBLE PLAN - PROFILE
CHARLES BRUNING COMPANY
MADE IN U.S.A.



PLAN VIEW

NOTES:

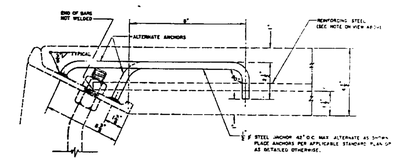
1. GROUT AND SEAL WITH WATERTIGHT SEALANT CONNECTION BETWEEN EXISTING SINGLE "D" AND PROPOSED STRUCTURE.



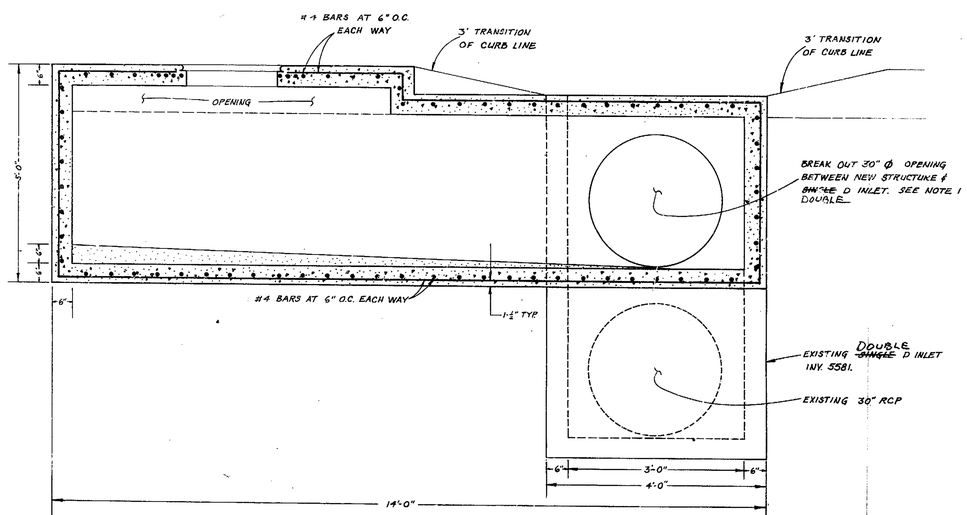
NOTES

(1) WHEN CURB FACE EXCEEDS (9¼" ±) PLAIN ROUND STEEL PROTECTION BAR 1" IN DIA. SHALL BE INSTALLED. BAR SHALL BE EMBEDDED 5" AT EACH END.
(2) A STIRRUP SHALL BE WELDED TO EACH BOLT WHEN A PROTECTION BAR IS REQUIRED.
(3) T = 8" MIN. WHEN LENGTH OF OPENING EXCEEDS 7'-0"
(4) ALL EXPOSED METAL PARTS SHALL BE GALVANIZED.
(5) WHEN REQUIRED BY LENGTH OF OPENING, BULB ANGLE MAY BE DELIVERED IN SECTIONS AND BUTT WELDED IN PLACE. ALL GALVANIZING DAMAGED BY WELDING SHALL RECEIVE TWO COATS OF ALUMINUM PAINT.
(6) ONE BOLT & ANCHORAGE MAY BE USED AT CONTRACTOR'S OPTION.
(7) SUPPORT BOLTS SHALL BE [illegible] OPENING EXCEEDS 7'-0" ARE [illegible] MORE THAN 7'-0" O.C. [illegible]
(8) WHEN PROTECTION BAR IS REQUIRED AN[illegible] OPENING IS 7'-0" OR LE[illegible] 5" BEHIND CURB FACE AND 4" ABOVE GUTTER FLOW LINE

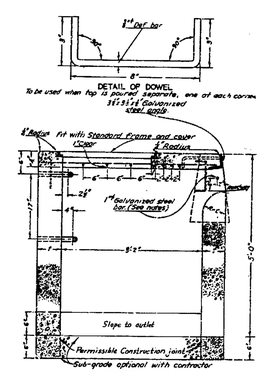
SECTION OF BASIN INLET
WITH
TYPE A BULB ANGLE ANCHORAGE



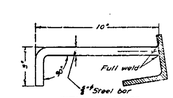
TYPE B BULB ANGLE ANCHORAGE



SECTION B-B



SECTION A-A



DETAIL OF ANCHOR

APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER-FIELD
DATE 1-21-80

20 0 1 2 1 7 2 8

APPROVALS	
ASST. CITY ENGINEER-DESIGN	CITY ENGINEER
DATE 17 Apr 79	DATE 4/19/79
WATER ENGINEER	LIQUID WASTE ENGINEER
DATE	DATE
TRAFFIC ENGINEER	ASST. CITY ENGINEER-HYDROLOGY
DATE	DATE 4/16/79
APPROVED FOR CONSTRUCTION: CITY ENGINEER	DATE 7/12/79

Date | Revision

VISTA FOUR HILLS

Project No. C-28-12

DRAINAGE DETAILS

ALBUQUERQUE, NEW MEXICO

Job No. 77-207	Sheet 17 Of 17
Drawn By JJF	Date APRIL 19
Checked By RRB	Scale NONE