CITY OF

ALBUQUERQUE—NEW MEXICO

PLANS

FOR CONSTRUCTION

OF

COMANCHE STORM SEWER COLLECTOR SYSTEM

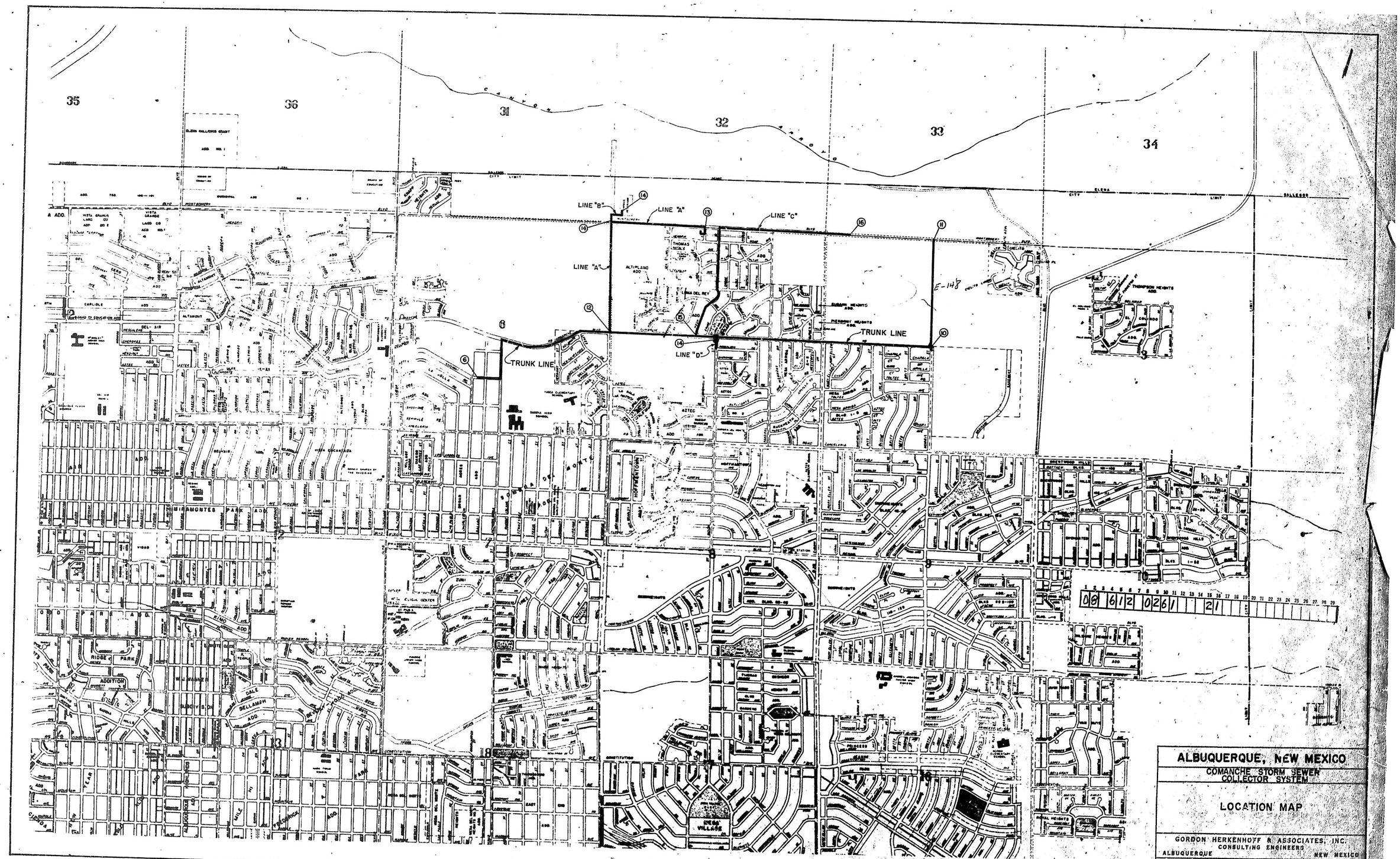
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

0	0	6	1	2		0	1	6	1				2	0														

SET NO 8

GORDON HERKENHOFF AND ASSOCIATES INC. CONSULTING ENGINEERS

SHEET 1 OF 16



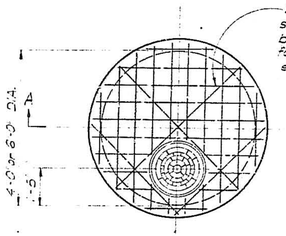
ALBUQUERQUE, NEW MEXICO

COMANCHE STORM SEWER COLLECTOR SYSTEM

LOCATION MAP

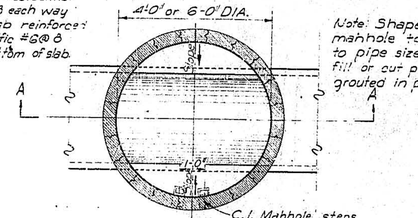
GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN: M.F.	SHEET 2
1" = 1000'	MAY, 1960	CHECKED: G.A.J.	OF 13



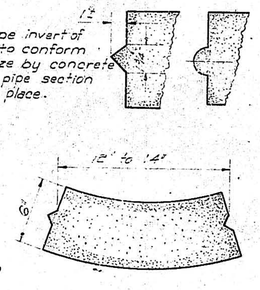
TOP PLAN OF TYPE A

SCALE: 3/8" = 1'-0"



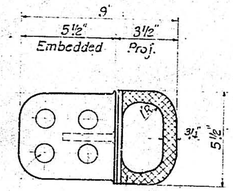
SECTION PLAN OF TYPE A AND TYPE B

SCALE: 3/8" = 1'-0"

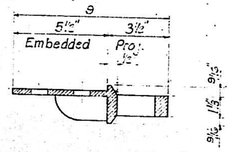


TYPICAL DETAIL OF CONCRETE BLOCK

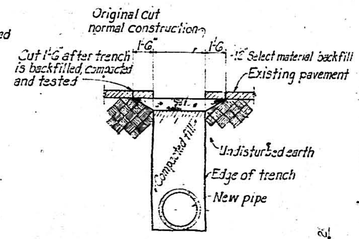
SCALE: 1/8" = 1'



PLAN

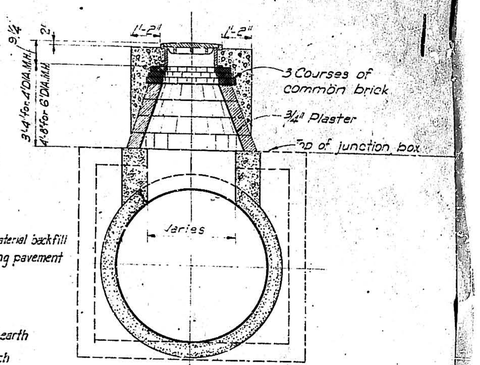


SECTION



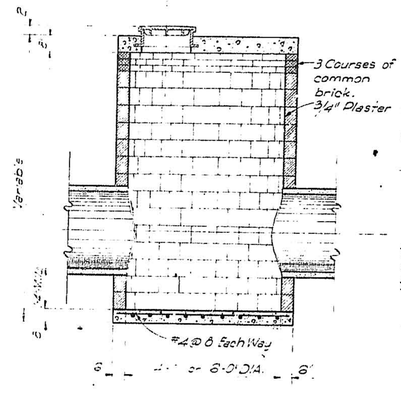
PAVEMENT CUT DETAILS

No Scale



STANDARD MANHOLE CONE

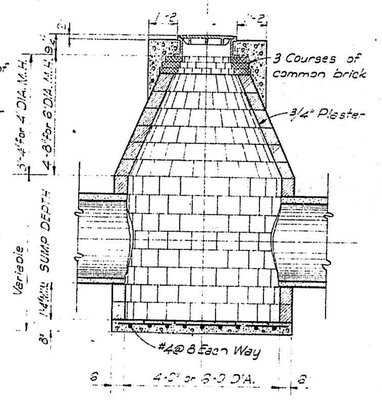
SCALE: 3/8" = 1'-0"



SECTION A-A - TYPE A MANHOLE

(SUMPED INVERT)

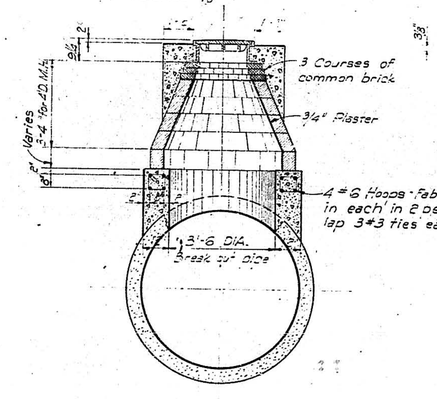
SCALE: 3/8" = 1'-0"



SECTION A-A - TYPE B MANHOLE

(WITH SUMPED INVERT)

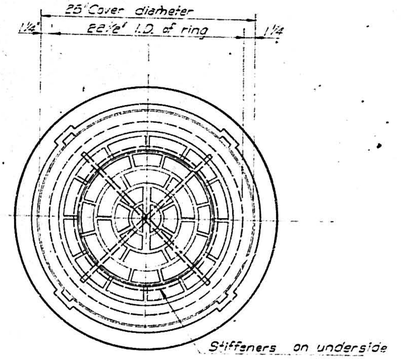
SCALE: 3/8" = 1'-0"



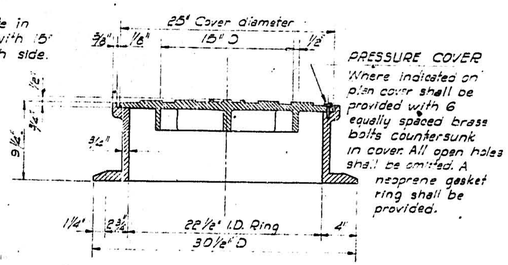
4' DIAMETER

INTERMEDIATE MANHOLE - TYPE C

SCALE: 3/8" = 1'-0"



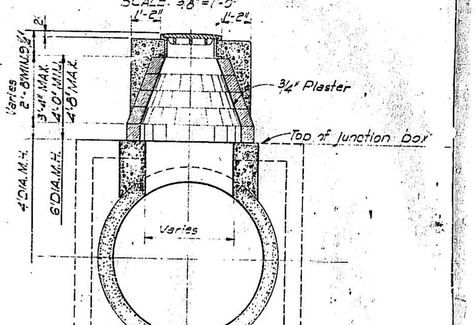
PLAN



SECTION

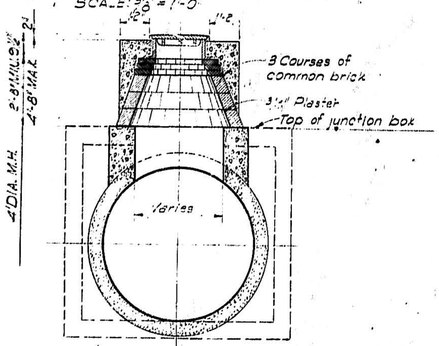
TYPICAL DETAILS OF CAST IRON MANHOLE RING AND COVER

SCALE: 1" = 1"



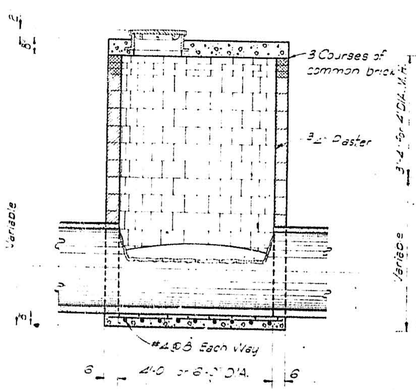
ALTERNATE MANHOLE CONE NO. 1

SCALE: 3/8" = 1'-0"



ALTERNATE MANHOLE CONE NO. 2

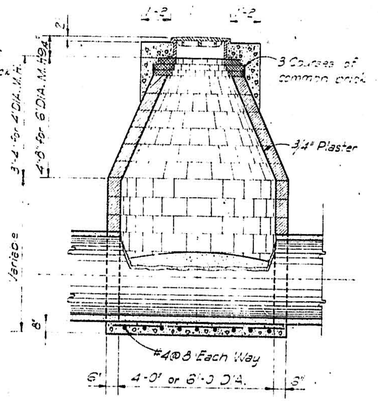
SCALE: 3/8" = 1'-0"



SECTION A-A - TYPE A MANHOLE

(STANDARD INVERT)

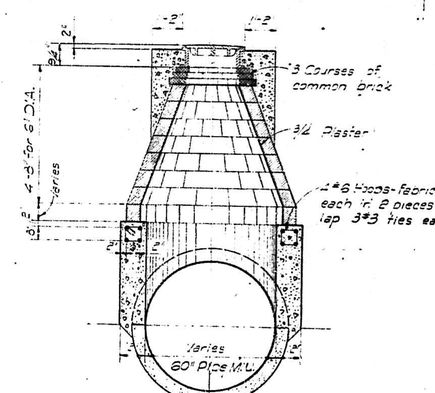
SCALE: 3/8" = 1'-0"



SECTION A-A - TYPE B MANHOLE

(STANDARD INVERT)

SCALE: 3/8" = 1'-0"



6' DIAMETER

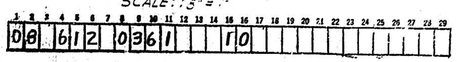
INTERMEDIATE MANHOLE - TYPE C

SCALE: 3/8" = 1'-0"

SECTION

TYPICAL DETAILS OF CAST IRON MANHOLE RING AND COVER

SCALE: 1" = 1"



ALBUQUERQUE, NEW MEXICO

STORM SEWER STANDARDS

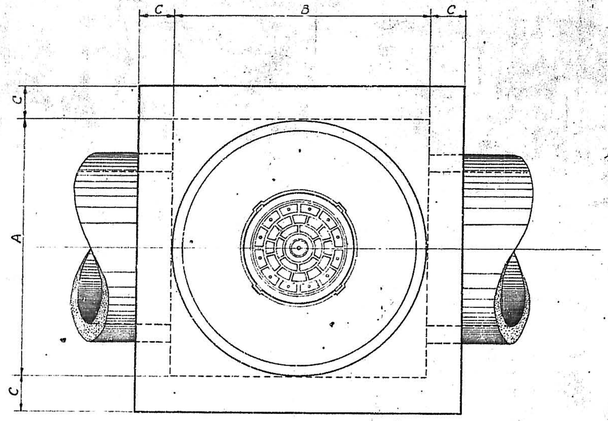
PAVEMENT CUT AND MANHOLE DETAILS

GORDON HERKENHOFF & ASSOCIATES. INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

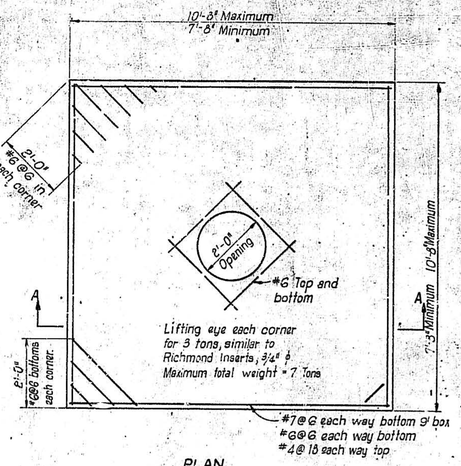
SCALE	DATE	DRAWN: R.A.G.	SHEET 3
AS SHOWN	MAY, 1960	CHECKED: G.A.J	OF 16

JUNCTION BOX SCHEDULE

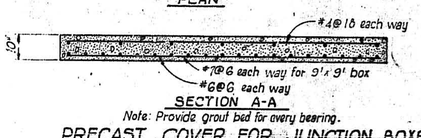
LINE	BOX	STATION	PIPE IN	PIPE OUT	DIMENSIONS A	B	C	D	E	F	G	H	ELEVATIONS INVERT	J or K	REINFORCING ROOF	WALLS	FLOOR	ESTIMATED QUANTITIES CU. YARDS CONCRETE	POUNDS STEEL
1		PENNSYL-VANIA	84"	84"	10-0	10-0	1-0	9-8½	1-0	1-0	2-0	4-0	36.90	(K) 53.75	#6@6 E.W.	#6@6 E.W.	#5@6 E.W.	26.37	8090
2		PENNSYLVANIA	60"	84"	10-0	8-0	0-10	9-8	1-0	0-10	*	*	41.16	(K) 53.50	#6@6 E.W.	#6@6 E.W.	#5@6 E.W.	19.32	5920
3		COMANCHE WYOMING	60"-60"	60"	8-0	8-0	0-8	7-10	1'-0	0-8	0	4-0	09.39	(K) 22.00	#5@6 E.W.	#6@6 E.W.	#5@9 E.W.	11.96	3680
4		COMANCHE MORN	48"-36"	60"	8-0	6-0	0-10	12-3	1-0	0-8	*	*	42.76	(K) 57.50	#5@6 E.W.	#6@6 E.W.	#5@9 E.W.	16.38	5020
5		COMANCHE MORRIS MORN	48"	42"	6-0	6-0	0-8	6-4	1-0	0-8	*	*	89.18	(K) 98.00	#5@6 E.W.	#4@8 E.W.	#4@12 E.W.	7.40	2270
6		MONTGOMERY MONTGOMERY WYOMING	30"	36"	6-0	4-0	0-8	6-7½	1-0	0-8	*	*	5491.87	(K) 5501.00	#5@6 E.W.	#4@8 E.W.	#4@12 E.W.	6.02	1850
7			24"-30"	36"	6-0	4-0	0-8	7-7	1-0	0-8	*	*	20.95	(K) 31.00	#5@6 E.W.	#4@8 E.W.	#4@12 E.W.	6.57	2010
8		22+50	66"	66"	8-0	6-0	0-8	6-9	1-0	0-8	0	4-0	55.77	(K) 67.30	#5@6 E.W.	#6@6 E.W.	#5@12 E.W.	9.20	2840
9		24+35	66"	66"	8-0	6-0	0-8	7-4	1-0	0-10	0-8	4-0	58.28	(K) 71.20	#5@6 E.W.	#6@6 E.W.	#5@9 E.W.	10.10	3100
10		26+00	60"	66"	8-0	6-0	0-10	7-3	1-0	0-10	2-8	4-0	60.42	(K) 75.30	#5@6 E.W.	#6@6 E.W.	#5@9 E.W.	11.96	3670
11		29+50	54"	60"	8-0	6-0	0-10	7-1	1-0	0-10	4-8	4-0	68.62	(K) 85.30	#6@6 E.W.	#6@6 E.W.	#6@6 E.W.	11.82	3620
12		35+50	54"	54"	8-0	6-0	0-8	8-6	1-0	0-8	*	*	391.52	(K) 402.50	#5@6 E.W.	#6@6 E.W.	#5@12 E.W.	10.57	3240
13		36+50	60"	54"	8-0	6-0	0-8	7-3	1-0	0-8	*	*	395.22	(K) 405.00	#5@6 E.W.	#6@6 E.W.	#5@12 E.W.	9.63	2950
14		38+30	60"	60"	8-0	6-0	0-8	8-0	1-0	0-8	*	*	399.00	(K) 409.50	#5@6 E.W.	#6@6 E.W.	#5@12 E.W.	10.19	3120
15		40+00	60"	60"	8-0	6-0	0-8	6-7½	1-0	0-8	0	4-0	02.57	(K) 14.00	#5@6 E.W.	#6@6 E.W.	#5@12 E.W.	9.13	2800



PLAN



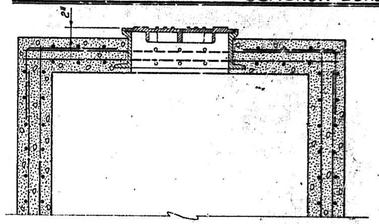
PLAN



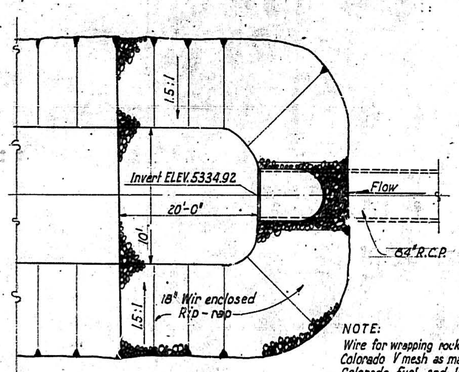
SECTION A-A

Note: Provide grout bed for every bearing.

PRECAST COVER FOR JUNCTION BOXES

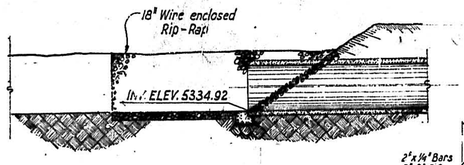


JUNCTION BOX



PLAN

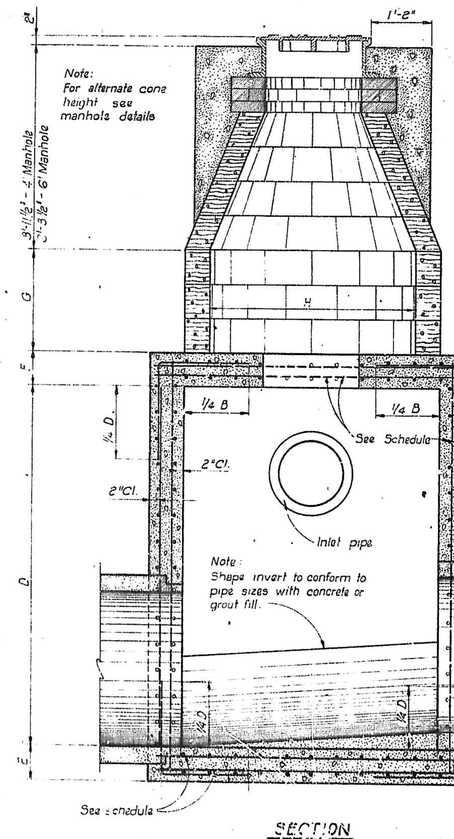
NOTE:
Wire for wrapping rock to be specification Colorado V mesh as manufactured by Colorado fuel and Iron Co. or equel. Longitudinal wires to be placed perpendicular to the flow with № 9 gage galvanized tie wires at 24" center each way



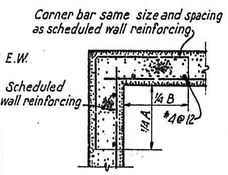
SECTION

OUTLET STRUCTURE DETAILS

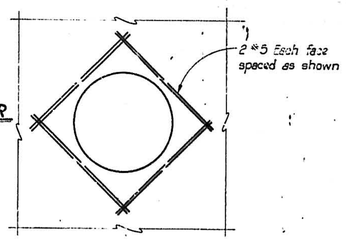
Not to scale



SECTION



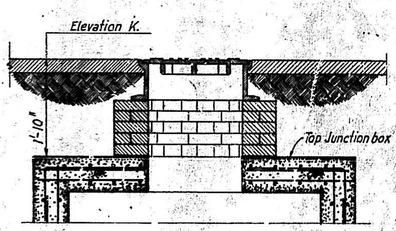
PLAN SECTION JUNCTION BOX @ CORNER



ADDITIONAL REINFORCING AT OPENINGS

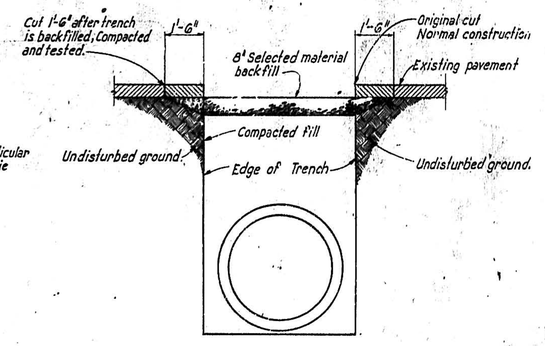
JUNCTION BOX DETAILS

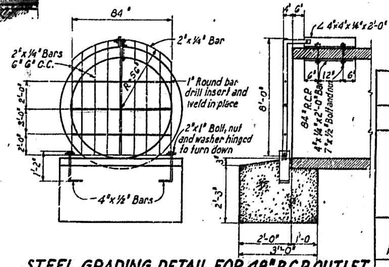
Scale: 3/4"=1'-0"



JUNCTION BOX DETAIL *

Scale: 3/4" = 1'-0"





STEEL GRADING DETAIL FOR 48" R.C.P. OUTLET

Not to scale.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

08 61 2 04 61 10

ALBUQUERQUE, NEW MEXICO

COMANCHE STORM SEWER COLLECTOR SYSTEM

JUNCTION BOX DETAILS

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN: R.A.G.	SHEET #
AS SHOWN	FEB. 1960	CHECKED: G.A.J.	OF 16

ROAD CONSTRUCTION AHEAD

C-60

36"X60" Black on White
Letters 6" Series C.
Reflectorize with O.D. .425 buttons 7/8 O.C.

O.D. = Optical-Diameter

DETOUR AHEAD

C-28

30"X30" Black on Yellow
Letters 6" Series C.
Reflectorize with O.D. 0.425 buttons 7/8" O.C.

SLOW

C-50

24"X24" Black on Yellow
Letters 3" Series B.
Reflectorize with O.D. .610 buttons 1 1/8" O.C.

ROAD CLOSED

C-26

30"X30" Black on Yellow. Letters 6" Series C
Reflectorize with O.D. 0.425 buttons 7/8" O.C.

LOOSE GRAVEL

C-55

24"X24" Black on Yellow
Letters 5" Series C.
Reflectorized.

FRESH OIL

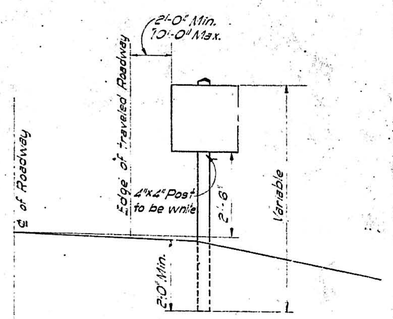
C-64

24"X24" Black on Yellow
Letters 5" Series C.
Reflectorized

END DETOUR

C-87

24"X24" Black on Yellow
Letters 5" Series C.
Reflectorized.



PLACEMENT OF SIGNS

DETOUR

D-31

12"X36" Black on White.
Letters 8" Series C.
Reflectorize with O.D. 0.610 buttons.

D-32

12"X24" Black on White,
Reflectorize shank with 0.80 buttons 1 1/2" O.C., Head with O.D. 0.610 buttons 1 1/8 O.C. min.

PAVEMENT ENDS

D-14

24"X24" Black on Yellow.
Letters 4" Series C.
Reflectorized.

WATCH FOR TRUCKS

C-67

24"X24" Black on Yellow.
Letters 4" Series B
Plain

WATCH FOR GRADER

C-69

24"X24" Black on Yellow.
Letters 4" Series B
Plain

MEN WORKING

C-29

24"X24" Black on Yellow.
Letters 4" Series C.
Plain

END WORK ZONE

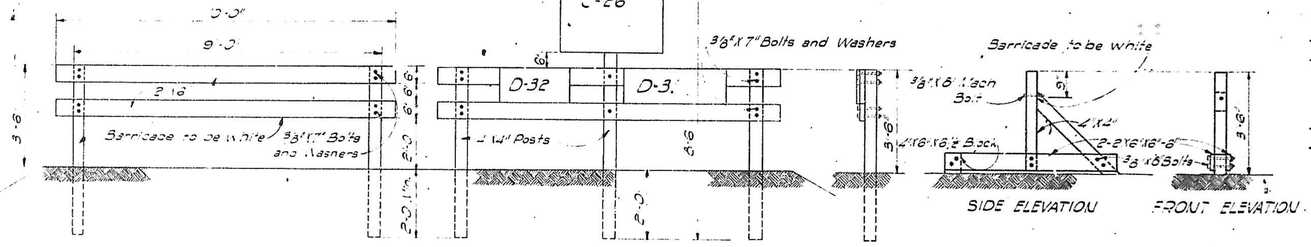
C-89

24"X24" Black on White
Letters 4" Series D.
Reflectorized

END CONSTRUCTION ZONE

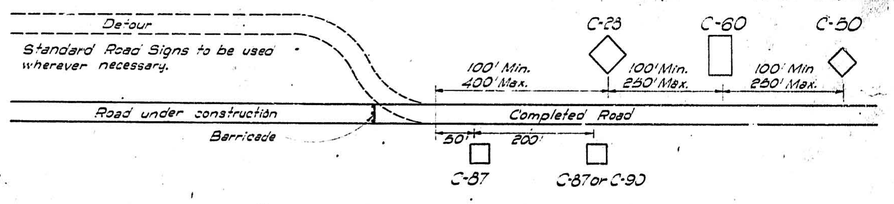
C-90

36"X60" Black on White Letters 6" Series C
Reflectorize with O.D. 0.425 buttons 7/8" O.C.



BARRICADE

BARRICADE STAND (OPTIONAL)



TYPICAL SIGN LAYOUT FOR DETOUR

SPECIFICATIONS

ERECTION AND DISPLAY

All signs and barricades shall be erected on posts of the dimensions shown elsewhere on this sheet. They shall be securely bolted to their standards with three-eighths (3/8) inch bolts.

Where it is impracticable to place barricades on posts set in the ground, the above optional stand may be used. Two posts or stands shall be used for each ten (10) foot section of barricade except where a "Road Closed" sign is used in conjunction with the barricade. In the latter case a solid barricade shall be used.

Temporary signs, such as "Men Working" "Watch for Grader" etc., may be erected on tripods or temporary stands to facilitate prompt removal when the purpose for which they have been erected has been fulfilled. Tripods and stands shall be properly weighted to prevent their being blown over. Methods and types of devices shall be subject to the approval of the Engineer.

DISPLAY

The above signs have been designed so as to afford maximum protection and convenience to the contractor and traffic alike. In order to obtain maximum efficiency from these signs, this sheet shall be closely adhered to and no variation will be allowed without express permission by the Engineer. All signs, with exception of the barricade shall be erected facing on the right hand side of approaching traffic. Care shall be taken to place these signs so as to afford maximum visibility.

Temporary signs, such as "Men Working" "Watch for Trucks" etc., shall only be displayed when the hazard they refer to actually exists.

Signs not reflectorized shall have Toledo Orange placed in front of them during the hours of darkness.

On reconstruction projects, widening projects etc., where traffic is passed over the project, only that part of the project shall be signed where work is actually prosecuted or construction hazards exist. In no case shall the spacing between signs be less than one hundred feet.

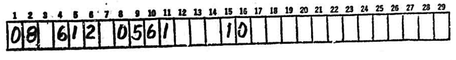
Approaching a surfacing project etc. requiring no detour, the first warning sign shall be placed two hundred and fifty feet from the point of hazard. All signs required shall be furnished, installed and maintained in good order by the contractor.

The contractor shall be responsible for damages to any persons or property resulting from defects, obstructions or any other cause during the progress of the work and the erection and maintenance of Standard Signs does not in any way affect this responsibility.

All lettering to be rounded and shall conform to standard Lettering as adopted by the A.A.S.H.O., 1947

Reflector buttons shall be Signal Service Reflector Buttons No. ALA-11 or equivalent, as approved by the Engineer, and of the optical diameter as shown.

Optional Barricade Signs shall be used at each end of construction or major repair projects only when some form of work is being performed which creates a traffic hazard throughout the entire length of the project. In case of several short sections of construction or major repair projects which are separated by intervals, each section shall be barricaded with Optional Barricade Signs.



STOP

W-3

30"X30" Black on Yellow
Letters 10" Series C.
Reflectorize with O.D. 0.610 buttons 1 1/8" O.C.

MEANS OF REFLECTORIZATION

1. Reflector buttons or units set in the symbol or message.
2. Reflecting coatings on the sign background, or in the symbol or message.
3. All reflecting elements shall reflect white lights, except that if a reflecting coating is used as a background of a yellow sign it shall reflect yellow light.
4. Buttons for 4" B and 6" letters shall be O.D. 0.425 - 7/8 O.C. Buttons for 8" and 10" letters shall be O.D. 0.610 - 1 1/8" O.C.

ALBUQUERQUE, NEW MEXICO

COMANCHE STORM SEWER COLLECTOR SYSTEM

STANDARD CONSTRUCTION SIGNS

IN ACCORDANCE WITH N.M.S.H.D. STANDARDS

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS
ALBUQUERQUE NEW MEXICO

SCALE	DATE	DRAWN: R.A.G.	SHEET 5
NOT TO SCALE	MAY, 1960	CHECKED: G.A.J.	OF 16

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, PROFILE CHECKED, NOTE BOOK NO., DATE 5-60

PROFILE — DRAFTED, PLOTTED, GRADES CHECKED, NOTE BOOK NO., STRUCT. DETAILS, DATE 5-60

BROAD ACRES SUBDIVISION

60' CHARLESTON AVE. N.E. — 60' DALLAS STREET N.E. — 60' CHEROKEE ROAD NE

270' Right of Way — Survey line — 10' — 60'

AZTEC AVENUE N.E.

UTILITY EASEMENT — 110.75' — 30'

Begin Construction STA. 2+40

270' Right of Way

84" R.C.P.

3/4" Iron Pipe Property Co

6' DIA. Manhole Type "C" STA. 5+00
Inlet Invert 5335.91
Outlet Invert 5335.91

305.49'

Telephone Manhole

24" C.I.P.

S.M.H.

Water Valve

Junction Box STA. 7+61
Inlet Invert 5337.52
Outlet Invert 5336.90

60' PENNSYLVANIA STREET N.E.

SUBDIVISION 10

600' — Right of Way — 24" C.I.P. — Survey line — Water Valve — S.M.H.

60' PENNSYLVANIA W. STREET N.E. 60'

84" R.C.P.

Right of Way

6' DIA. Manhole Type "C" STA. 10+00
Inlet Invert 5336.50
Outlet Invert 5338.50

6' DIA. Manhole Type "C" STA. 13+50
Inlet Invert 5339.83
Outlet Invert 5339.83

TRUNK LINE

5350 / 5340 / 5330 / 5320

Rip-Rap — 2' Minimum Cover over 84" R.C.P. — Existing Ground — Ditched to daylight

84" R.C.P. S=0.0038

6' DIA. Manhole Type "C" STA. 5+00 Outlet Invert Elev. 5335.91 Inlet Invert Elev. 5335.91

Junction Box STA. 7+61 Outlet Invert Elev. 5336.90 Inlet Invert Elev. 5337.52

6' DIA. Manhole Type "C" STA. 10+00 Outlet Invert Elev. 5338.50 Inlet Invert Elev. 5336.50

6' DIA. Manhole Type "C" STA. 13+50 Outlet Invert Elev. 5339.83 Inlet Invert Elev. 5339.83

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14

BROAD ACRES SUBDIVISION

15

CHEROKEE ROAD NE

Junction Box
EQUATION:
STA. 17+00 Back
STA 15+85 Ahead

Right of Way 220.52'

Survey line

60' PENNSYLVANIA W. 10' STREET W. N.E. 60'

84" R.C.P.

Right of Way

80' ROAD N.E.

24" C.I.P.

COMANCHE 86'

B.M.= Southeast lug top of sanitary sewer Manhole at STA. 4+65.0
EL.= 5345.58

Note:
Location of pipe within the right of way is tentative and may be changed by the Project Engineer.

TRUNK LINE

PROFILE

5380 / 5350 / 5340 / 5330

Existing Ground

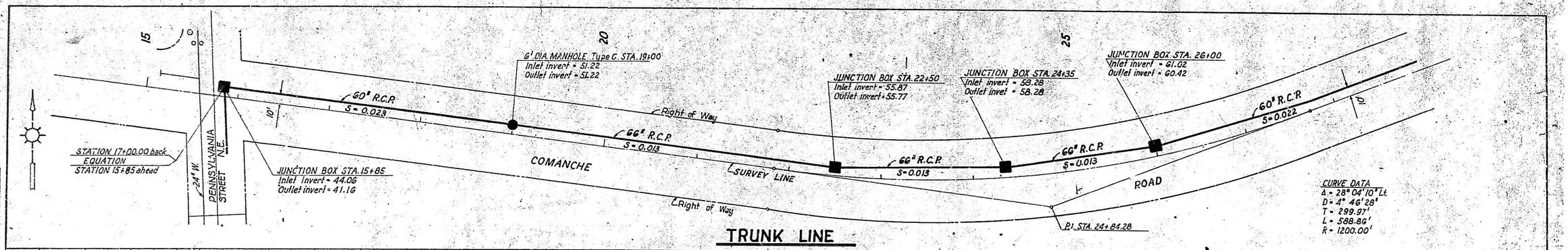
84" R.C.P. S=0.0038

Outlet Invert Elev. 5330.06
Junction Box
Inlet Invert Elev. 5330.06

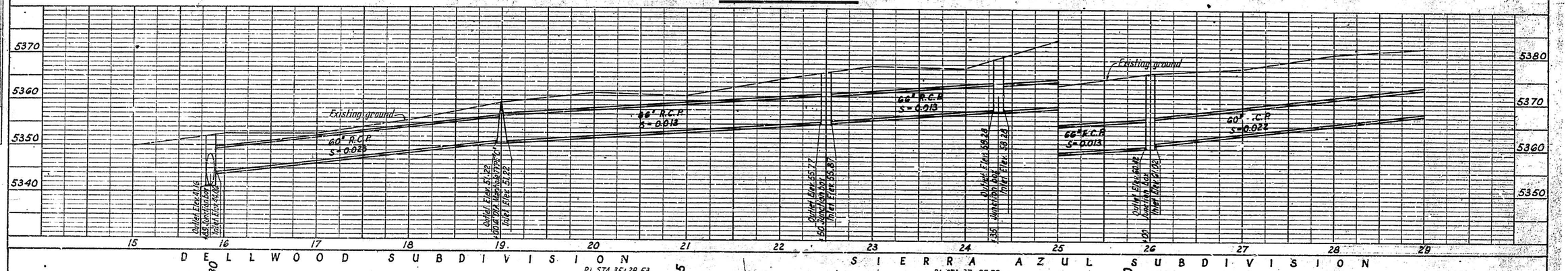
14 15 16 17

SCALE:
Horiz. : 1" = 50'
Vert. : 1" = 10'

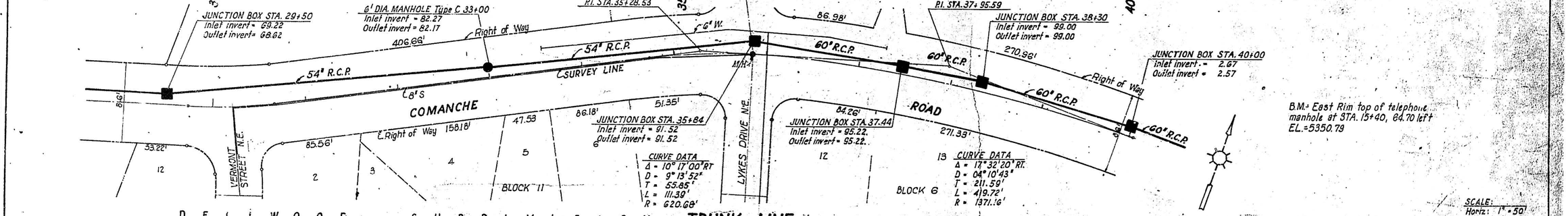
PLAN — SURVEYED | DRAWN R.A.C. | TRACED | NOTE BOOK | ALIGNMENT CHECKED | RT. OF WAY CHECKED | NO. | DATE | BY



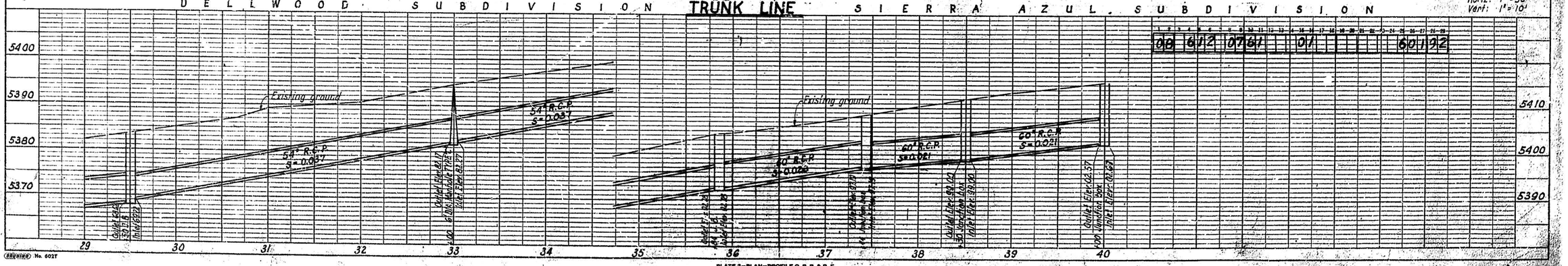
TRUNK LINE



PROFILE — SURVEYED | DRAWN R.A.C. | TRACED | NOTE BOOK | ALIGNMENT CHECKED | RT. OF WAY CHECKED | NO. | DATE | BY | STRUCTURE NUMBERING



TRUNK LINE



SCALE: Horiz: 1" = 50' Vert: 1" = 10'

08 612 0767 01 60122

(BRUNING) No. 602T

PLATE 2—PLAN—PROFILE O. P. R. & R. E.
100% RAG PAPER-MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY INC.

SIERRA AZUL SUBDIVISION

TOWNSHIP 10 NORTH RANGE 4 EAST

ALTIPLANO SUBDIVISION

JUNCTION BOX STA. 40+00
Inlet invert = 2.67
Outlet invert = 2.57

BLOCK 1
14
254.53

JUNCTION BOX STA. 43+20
Inlet invert = 9.76
Outlet invert = 9.39
Wyoming Inlet inv. = 9.76

60" R.C.P.
S=0.002
60" R.C.P.
LINE A

W½, S½, SW¼, NW¼, SECTION 5

Right of way.

6' DIA. MANHOLE Type C STA. 49+90
Inlet invert = 19.76
Outlet invert = 19.16

GENERAL BRADLEY AVE. 50

BLOCK 2
1
75'
21
75'
20

SAN CLEMENTE AVENUE NE.

BLOCK 1.
3
2

55

60" R.C.P.
60" R.C.P.
60" R.C.P.
54" R.C.P.
54" R.C.P.

SURVEY LINE

86'
10'
10'
83'

COMANCHE ROAD N.E.

Right of Way
13
BLOCK G

WYOMING

P.I. STA. 43+36.51
Δ = 00°45' Rt.

6' DIA. MANHOLE Type 'C' STA. 46+60
Inlet invert = 14.52
Outlet invert = 14.42

Right of Way

P.I. STA. 49+96.93
Δ = 00°01' Lt.

6' DIA. MANHOLE Type C STA. 53+20
Inlet invert = 26.30
Outlet invert = 26.20

B.M. = East Rim top of telephone manhole at STA. 15+40, 64.70 left EL. = 5350.79

NW¼, SW¼, SECTION 5

TRUNK LINE

DELLWOOD SUBDIVISION

TOWNSHIP 10 NORTH RANGE 4 EAST

5440
5430
5420
5410

Existing ground

60" R.C.P.
S = 0.021

60" R.C.P.
S = 0.014

Outlet Elev. 5403.53
20 x 8 Inlet
Inlet Elev. 5403.28

Outlet Elev. 5401.43
60" x 60" Manhole
Inlet Elev. 5401.23

Type "C"

Outlet Elev. 5402.16
60" x 60" Manhole
Inlet Elev. 5401.76

54" R.C.P.
S = 0.020

54" R.C.P.
S = 0.020

Outlet Elev. 5416.20
20" x 60" Manhole Type "C"
Inlet Elev. 5414.96

40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55

ALTIPLANO SUBDIVISION

LOMA DEL REY SUBDIVISION

LOMA DEL REY PARK

BLOCK 1
3 2 1
70'
Right of Way
70'
15.91'

BLOCK 21
5 4

GENERAL PATCH STREET N.E.

17 16 15 14 13 12 11
91.05 75' 75' 75.27' 90.19'

36" R.C.P. S=0.025

MOON STREET LINE C

BLOCK 18
10 9
90.29' 90.29'

ERBE STREET N.E.

G' DIA. MANHOLE Type B STA. 69+85
Inlet invert = 54.13
Outlet invert = 53.45

325'

54" R.C.P.
60" R.C.P.
60" R.C.P.
48" R.C.P.
48" R.C.P.

SURVEY LINE

40'
83'
43'
10'

COMANCHE ROAD N.E.

G' DIA. MANHOLE Type C STA. 57+55
Inlet invert = 34.78
Outlet invert = 34.78

604.49'

G' DIA. MANHOLE Type C STA. 61+20
Inlet invert = 38.93
Outlet invert = 38.83

JUNCTION BOX STA. 64+65
Inlet invert = 43.83
Outlet invert = 42.76
MOON Inlet inv. = 50.04

685.68'

G' DIA. MANHOLE Type B STA. 67+30
Inlet invert = 48.78
Outlet invert = 48.68

F.H.

6'W.

MOON STREET LINE D

24" R.C.P.

NW¼, SW¼, SECTION 5

NW¼, SW¼, SECTION 5

BOARD OF EDUCATION

TRUNK LINE

TOWNSHIP 10 NORTH RANGE 4 EAST

5460
5450
5440
5430

Existing ground

54" R.C.P. S=0.020

60" R.C.P.
S=0.011

Outlet Elev. 5444.78
33 x 60 Manhole
Inlet Elev. 5439.78

Type "C"

Outlet Elev. 5433.85
33 x 60 Manhole
Inlet Elev. 5433.30

Outlet Elev. 5442.76
Junction Box
Inlet Elev. 5442.36

Existing ground

48" R.C.P. S=0.018

48" R.C.P. S=0.018

Outlet Elev. 5440.68
Type "C" Manhole Type 10'
Inlet Elev. 5440.78

Outlet Elev. 5435.48
36 G' DIA. Manhole Type 8'
Inlet Elev. 5434.13

55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70

SCALE:
Horiz.: 1" = 50'
Vert.: 1" = 10'

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY A.O.H.
DATE 2-60
ALIGNMENT CHECKED
PLOTTING CHECKED
STRUCTURE NOTATNS CHKD.

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
BY A.O.H.
DATE 2-60
ALIGNMENT CHECKED
PLOTTING CHECKED
STRUCTURE NOTATNS CHKD.

BRUNING No. 6037

PLATE 2—PLAN—PROFILE O. P. R. & R. E.
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COMANCHE STORM SEWER SHEET 8 OF 15

SIERRA AZUL SUBDIVISION

TOWNSHIP 10 NORTH RANGE 4 EAST

ALTIPLANO SUBDIVISION

JUNCTION BOX STA. 40+00
Inlet invert = 2.67
Outlet invert = 2.57

JUNCTION BOX STA. 43+20
Inlet invert = 9.76
Outlet invert = 9.39
Wyoming inlet inv. = 9.76

254.63

60" R.C.P. S=0.002

W½, S½, SW¼, NW¼, SECTION 5

6' DIA. MANHOLE Type C STA. 49+90
Inlet invert = 19.76
Outlet invert = 19.16

GENERAL BRADLEY NE.

SAN CLEMENTE AVENUE NE.

BLOCK 2 — 1 (75') — 21 (75') — 20

BLOCK 1. — 3 — 2

60" R.C.P. — 60" R.C.P. — 60" R.C.P. — 54" R.C.P. — 54" R.C.P.

Right of way

SURVEY LINE

86' — 101' — 10' — 83'

COMANCHE ROAD N.E.

Right of Way

13 BLOCK G

WYOMING LINE A

P.I. STA. 43+36.51
Δ = 00°45' Rt.

6' DIA. MANHOLE Type C STA. 46+60
Inlet invert = 14.52
Outlet invert = 14.42

Right of Way

P.I. STA. 49+06.93
Δ = 00°01' Lt.

6' DIA. MANHOLE Type C STA. 53+20
Inlet invert = 26.30
Outlet invert = 26.20

B.M.= East Rim top of telephone manhole at STA. 15+40, 64.70 left EL.=5350.79

NW¼, SW¼, SECTION 5

TRUNK LINE

DELLWOOD SUBDIVISION

TOWNSHIP 10 NORTH RANGE 4 EAST

5440 / 5430 / 5420 / 5410

Existing ground

60" R.C.P. S=0.021

60" R.C.P. S=0.014

Outlet Elev. 5391.46
133' 6' DIA. Manhole Type C
Inlet Elev. 5391.33

Outlet Elev. 5402.16
130' 6' DIA. Manhole Type C
Inlet Elev. 5380.76

54" R.C.P. S=0.020

54" R.C.P. S=0.029

Outlet Elev. 5376.20
120' 6' DIA. Manhole Type C
Inlet Elev. 5368.96

40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55

ALTIPLANO SUBDIVISION — LOMA DEL REY SUBDIVISION — LOMA DEL REY PARK

BLOCK 1 — BLOCK 21 — BLOCK 18

3 2 1 5 4 — 17 16 15 14 13 12 11 — 10 9

70' — Right of Way — 70' — 15.91' — 91.05 — 75' — 75' — 75.27' — 90.19' — 90.29' — 90.29' — 325'

GENERAL PATCH STREET N.E. — 36" R.C.P. S=0.025 — MOON STREET LINE C — FORBE STREET N.E.

6' DIA. MANHOLE Type B STA. 69+85
Inlet invert = 54.13
Outlet invert = 5 .45

54" R.C.P. — 60" R.C.P. — 60" R.C.P. — 48" R.C.P. — 48" R.C.P.

40' — 83' — 43' — 10'

SURVEY LINE

COMANCHE ROAD N.E.

6' DIA. MANHOLE Type C STA. 57+55
Inlet invert = 34.78
Outlet invert = 34.78

604.49'

6' DIA. MANHOLE Type C STA. 61+20
Inlet invert = 38.93
Outlet invert = 38.83

JUNCTION BOX STA. 64+65
Inlet invert = 43.83
Outlet invert = 42.76
MOON Inlet inv. = 50.04

685.68'

6' DIA. MANHOLE Type B STA. 67+30
Inlet invert = 48.78
Outlet invert = 48.68

F.H.

6" W. MOON STREET LINE D 24" R.C.P.

NW¼, SW¼, SECTION 5 — NW¼, SW¼, SECTION 5 — BOARD OF EDUCATION

SCALE:
Horiz. : 1" = 50'
Vert. : 1" = 10'

TRUNK LINE

TOWNSHIP 10 NORTH RANGE 4 EAST

5460 / 5450 / 5440 / 5430

Existing ground

54" R.C.P. S=0.020

60" R.C.P. S=0.011

60" R.C.P. S=0.014

48" R.C.P. S=0.018

48" R.C.P. S=0.018

Outlet Elev. 5394.78
33' 6' DIA. Manhole
Inlet Elev. 5394.68

Outlet Elev. 5402.16
130' 6' DIA. Manhole Type C
Inlet Elev. 5380.76

Outlet Elev. 5442.76
Elev. Junction box
Inlet Elev. 5442.83

Outlet Elev. 5448.49
36' 6' DIA. Manhole Type C
Inlet Elev. 5448.76

Outlet Elev. 5461.45
35' 6' DIA. Manhole Type B
Inlet Elev. 5794.13

55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70

PLAN — SURVEYED: A.O.H. — PLOTTED: — NOTE BOOK: — NO. — BY: A.O.H. — DATE: 5-'60 — ALL RIGHT OF WAY CHECKED. ALL STRUCTURES NOTED.

PROFILE — SURVEYED: — PLOTTED: — NOTE BOOK: — NO. — BY: A.O.H. — DATE: 5-'60 — ALL RIGHT OF WAY CHECKED. ALL STRUCTURES NOTED. ALL UTILITIES SHOWN. ALL STRUCTURE NOTATIONS CHKD.

BRUNING No. 6057

PLATE 2—PLAN—PROFILE O. P. R. & R. E.
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COMANCHE STORM SEWER SHEET 8 OF 16

LOMA DEL REY SUBDIVISION

LOMA DEL REY PARK

ORLANDO PLACE N.E.

BLOCK 16

6' DIA. MANHOLE Type B STA. 74+10
Inlet invert = 68.77
Outlet invert = 68.77

COMANCHE PLACE N.E.

6' DIA. MANHOLE Type B STA. 78+50
Inlet invert = 81.89
Outlet invert = 81.79

BLOCK 15

6' DIA. MANHOLE Type B STA. 82+80
Inlet invert = 95.12
Outlet invert = 94.62

CONCHAS STREET N.E.

PIERMONT HEIGHT SUBDIVISION

BLOCK 7

42" R.C.P.

SURVEY LINE

COMANCHE ROAD N.E.

6" W

48" R.C.P.

B.M. = East Rim top of telephone manhole at STA. 15+40, 64.70 left EL. = 5350.79

BLOCK 8

GARCIA M.H.

PARSIFAL M.H.

P.I. STA. 82+97.74
Δ = 00° 06' Rt.

BLOCK 9

BLOCK F

MESA ARRIBA SUBDIVISION

TRUNK LINE

AZTEC ADDITION UNIT NO. 2

Existing ground

42" R.C.P. S=0.034

42" R.C.P. S=0.030

48" R.C.P. S=0.013

42" R.C.P. S=0.030

Type B

Outlet Elev. 5468.72
6'-0" Dia. Manhole Type B
Inlet Elev. 5469.17

Outlet Elev. 5481.79
6'-0" Dia. Manhole Type B
Inlet Elev. 5481.99

Outlet Elev. 5494.62
6'-0" Dia. Manhole Type B
Inlet Elev. 5495.12

PIERMONT HEIGHTS SUBDIVISION

TOWNSHIP 10 NORTH RANGE 4 EAST

6' DIA. MANHOLE Type B STA. 85+10
Inlet invert = 98.30
Outlet invert = 98.20

6' DIA. MANHOLE Type B STA. 88+00
Inlet invert = 02.29
Outlet invert = 02.19

6' DIA. MANHOLE Type B STA. 90+30
Inlet invert = 06.25
Outlet invert = 05.65

6' DIA. MANHOLE Type B STA. 93+00
Inlet invert = 12.72
Outlet invert = 12.62

6' DIA. MANHOLE Type B STA. 96+26
Inlet invert = 20.51
Outlet invert = 20.41

6' DIA MANHOLE Type B STA. 99+76
Inlet invert = 29.92
Outlet invert = 29.82

PIERMONT DRIVE N.E.

ESPEJO STREET N.E.

GLORIETA STREET N.E.

EUBANK BOULEVARD

BLOCK 4

BLOCK 3

BLOCK 2 BUSINESS AREA

S 1/4 NW 1/4 SECTION 4

COMANCHE ROAD N.E.

42" R.C.P.

48" R.C.P.

SURVEY LINE

6" W

PIERMONT M.H.

ESPEJO M.H.

GLORIETA M.H.

BLOCK G

BLOCK H

BLOCK K

BLOCK I

TRACT 1-B

TRACT 1-A

MESA ARRIBA SUBDIVISION

TRUNK LINE

MESA ARRIBA SUBDIVISION

Existing ground

43" R.C.P. S=0.013

48" R.C.P. S=0.015

42" R.C.P. S=0.024

42" R.C.P. S=0.027

42" R.C.P. S=0.024

Type B

Outlet Elev. 5491.20
10'-0" Dia. Manhole
Inlet Elev. 5493.30

Outlet Elev. 5502.18
10'-0" Dia. Manhole Type B
Inlet Elev. 5502.28

Outlet Elev. 5505.65
10'-0" Dia. Manhole Type B
Inlet Elev. 5506.25

Manhole Type B

Outlet Elev. 5512.72
6'-0" Dia. Manhole
Inlet Elev. 5512.82

Outlet Elev. 5520.41
6'-0" Dia. Manhole Type B
Inlet Elev. 5520.51

Outlet Elev. 5529.92
6'-0" Dia. Manhole Type B
Inlet Elev. 5530.02

SCALE:
Horiz. : 1" = 50'
Vert. : 1" = 10'

PLATE 2—PLAN—PROFILE O. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U.S.A.
GUNNELL'S BRUNING COMPANY, INC.

COMANCHE STORM SEWER SHEET 9 OF 16

T O W N S H I P 1 0 N O R T H R A N G E 4 E A S T

100 105 110 115

6' DIA. MANHOLE Type B STA. 103+16
Inlet invert = 38.07
Outlet invert = 37.97

6' DIA. MANHOLE Type B STA. 106.66
Inlet invert = 46.22
Outlet invert = 46.12

6' DIA. MANHOLE Type B STA. 110+16
Inlet invert = 53.32
Outlet invert = 53.22

6' DIA. MANHOLE Type B STA. 113+66
Inlet invert = 61.02
Outlet invert = 60.32

Right of way — S½, SW¼, NW¼, SECTION 4 — W½, SE¼, NW¼, SECTION 4

42" R.C.P. — 10' W — 42" R.C.P. — 42" R.C.P. — 6' W — 42" R.C.P.

86' 10' — SURVEY LINE — 86' 10'

COMANCHE ROAD N.E.

80' 19 — 6' W — M.H. — S. MARY ELLEN STREET NE.

80' 27 — 80' 1 — 6' W — M.H. — S. CHAPALA DRIVE NE.

79.88' 43 — 79.93' 1 — 6' W — M.H. — S. PITT STREET N.E.

88.14' 1 — 80.21' 36 — 6' W — M.H. — S. INCA STREET N.E.

79.80' 1 — 360.02

TRACT 1-A BLOCK 1 — BLOCK 2 — BLOCK 3 — BLOCK 10 — TRACT 18 A BLOCK 18

M E S A A R R I B A S U B D I V I S I O N — TRUNK LINE

PLAN	BY	DATE
SURVEYED	G.C.B.	
PLOTTED	A.D.M.	
NOTE BOOK	ALIGNMENT CHECKED	
NO.	PIT. OF WAY CHECKED	

5560 5550 5540 5530 — Existing ground — 42" R.C.P. S=0.023 — 42" R.C.P. S=0.020 — 42" R.C.P. S=0.020 — 36" R.C.P. S=0.045

Outlet Elev. 5539.07 — 16' DIA. Manhole Type B — Inlet Elev. 5538.97

Outlet Elev. 5544.15 — 66' DIA. Manhole Type B — Inlet Elev. 5541.45

Outlet Elev. 5550.15 — 16' DIA. Manhole Type B — Inlet Elev. 5549.05

Outlet Elev. 5560.02 — 66' DIA. Manhole Type B — Inlet Elev. 5559.02

5570 5560 5550 5540

100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115

T O N W S H I P 1 0 N O R T H R A N G E 4 E A S T

115 120

6' DIA. MANHOLE Type B STA. 117+16
Inlet invert = 75.92
Outlet invert = 75.82

6' DIA. MANHOLE Type B STA. 119+76
Inlet invert = 81.20
Outlet invert = 81.10

E½, SE¼, NW¼, SECTION 4 — Right of way

JUNCTION I BOX STA. 122+67
Inlet invert = 89.58
Outlet invert = 87.68

STREET NE.

NOTE:
For continuation of trunk line see sheet 11

Stub 1 length of 42" R.C.P. and plug at junction box

B.M.= East Rim top of telephone manhole at STA. 15+40, 64.70 left EL.= 5350.79

36" R.C.P. — 10' W. — 42" R.C.P. — 42" R.C.P.

SURVEY LINE

86' 10' — 86' 10'

COMANCHE ROAD N.E.

60.20' 46 BLOCK 18 — 6' W — M.H. — S. BRITT STREET N.E.

79.80' 1 — 20' Right of way — 355.22'

TRACT 17A — TRACT 17B BLOCK 17 — MORRIS

M E S A A R R I B A S U B D I V I S I O N — TRUNK LINE

PROFILE	BY	DATE
SURVEYED	A.D.M.	
PLOTTED		
NOTE BOOK	CHECKED	
NO.	B. M.'S NOTED, CURVES, STRUCTURE NOTATING CHKD.	

5590 5580 5570 5560 — Existing ground — 42" R.C.P. S=0.023 — 42" R.C.P. S=0.023 — 36" R.C.P. S=0.045

Outlet Elev. 5575.92 — 16' DIA. Manhole Type B — Inlet Elev. 5574.82

Outlet Elev. 5581.10 — 66' DIA. Manhole Type B — Inlet Elev. 5580.20

Outlet Elev. 5588.68 — Junction Box — Inlet Elev. 5588.58

115 116 117 118 119 120 121 122

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

0 8 6 1 2 — 1 0 6 1 — 0 1 — 6 0 2 1 2

SCALE:
Horiz. : 1"=50'
Vert. : 1"=10'

(BRUNING) No. 6027

PLATE 2—PLAN—PROFILE O. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U.S.A.

COMANCHE STORM SEWER SHEET 10 OF 16

PLAN — SURVEYED — PLOTTED — NOTE BOOK — NO. — BY — DATE 5-20 — A.O.H. — CHECKED — LAID OUT ON PLAT CHECKED — RT. OF WAY CHECKED

STA. 122+67 COMANCHE = EQUATION STA 0+10 MORRIS

ROAD NE

¾" iron pipe ¼ Corner

E. COMANCHE SECTION LINE

E½, SE¼, NW¼, SECTION 4 TION, R4E

MORRIS STREET N.E.

1237.34'

Right of way

SURVEY LINE

86' 10'

48" R.C.P.

JUNCTION BOX STA 0+10
Inlet invert = 89.58
Outlet invert = 89.18

48" R.C.P.

6' DIA. MANHOLE Type B STA. 2+50
Inlet invert = 91.93
Outlet invert = 91.88

1237.34'

Right of way

42" R.C.P.

6' DIA. MANHOLE Type B STA. 5+30
Inlet invert = 95.10
Outlet invert = 94.50

36" R.C.P.

6' DIA. MANHOLE Type B STA. 8+80
Inlet invert = 05.75
Outlet invert = 05.15

36" R.C.P.

6' DIA. MANHOLE Type B STA. 12+30
Inlet invert = 12.61
Outlet invert = 12.51

SW¼ NE¼ SEC. 4, TION, R4E

TRUNK LINE

5620 / 5610 / 5600 / 5590

Junction box Inlet invert Elev. Morris 5589.58

Type B

Existing ground

48" R.C.P. S=0.010

48" R.C.P. S=0.005

Outlet invert Elev. 5590.88
450 Lf RCP
Manhole Inlet invert

Type B

Outlet invert Elev. 5591.30
450 Lf RCP
Manhole Inlet invert Elev. 5595.10

42" R.C.P. S=0.029

Outlet invert Elev. 5600.15
450 Lf RCP
Manhole Inlet invert Elev. 5605.05

36" R.C.P. S=0.009

Outlet invert Elev. 5612.61
420 Lf RCP
Manhole Inlet invert Elev. 5616.81

36" R.C.P. S=0.020

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

NE¼, NW¼, SEC. 4, TION, R4E

PROFILE — SURVEYED — PLOTTED — NOTE BOOK — NO. — BY A.O.H. — DATE 7-20 — LAID OUT ON PLAT CHECKED — STRUCTURES ROTATED & CHECKED

1227.34'

Right of way

MORRIS STREET N.E.

SURVEY LINE

86' 10'

42" R.C.P.

6' DIA. MANHOLE Type B STA. 15+80
Inlet invert = 19.47
Outlet invert = 19.47

42" R.C.P.

1227.34'

Right of way

6' DIA. MANHOLE Type B STA. 19+30
Inlet invert = 22.02
Outlet invert = 21.92

LOT 2 MOSSMAN-GLADDEN INC.

24" R.C.P.

6' DIA. MANHOLE Type B STA. 22+80
Inlet invert = 25.57
Outlet invert = 23.97

BOULEVARD

LINE 967.2' S5°-30'W

MONTGOMERY SECTION

Brass cap Section corner

B.M.= Nail at ground level on Northeast side Power pole at Southwest corner of Montgomery and Morris

END OF CONSTRUCTION
4' DIA. MANHOLE Type B STA. 26+30
Invert Elev. = 31.80

TRUNK LINE

5640 / 5630 / 5620 / 5610

Existing ground

42" R.C.P. S=0.007

42" R.C.P. S=0.006

Outlet invert Elev. 5620.47
480 Lf RCP
Manhole Type B
Inlet invert Elev. 5624.47

Outlet invert Elev. 5621.04
460 Lf RCP
Manhole Type B
Inlet invert Elev. 5625.22

Outlet invert Elev. 5625.57
460 Lf RCP
Manhole Type B
Inlet invert Elev. 5630.57

Existing ground

24" R.C.P. S=0.008

Outlet invert Elev. 5633.80
438 Lf RCP
Manhole Type B
Inlet invert Elev. 5637.30

15 16 17 18 19 20 21 22 23 24 25 26

SCALE: Horiz.: 1"=50' Vert.: 1"=10'

BRUNING No. 602T

PLATE 2—PLAN—PROFILE O. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY, INC.

EQUATION
JUNCTION BOX STA. 26+10 on Wyoming
STA. 43+20 Comanche Inlet Invert = 09.76
Outlet Invert = 09.39
Wyoming Inlet Invert = 09.76

SIERRA AZUL SUBDIVISION

BLOCK 1 BLOCK 10

60" R.C.P. ROAD N.E. 60" R.C.P. 60" R.C.P. 60" R.C.P. 48" R.C.P.

Right of Way Right of Way

20' Alley HARWOOD AVE. N.E. SURVEY LINE

3/4" Iron Pipe S.M.H. S.M.H. S.M.H. S.M.H.

6' DIA. MANHOLE Type C STA. 28+40
Inlet Invert = 10.29 - Outlet Invert = 10.19

6' DIA. MANHOLE Type C STA. 30+90
Inlet Invert = 10.78
Outlet Invert = 10.68

6' DIA. MANHOLE Type C STA. 34+40
Inlet Invert = 11.42
Outlet Invert = 11.32

6' DIA. MANHOLE Type B STA. 37+90
Inlet Invert = 13.06
Outlet Invert = 11.97

WYOMING BOULEVARD N.E.

COMANCHE TRUNK LINE

687.03'

B.M. = Southeast lug top of sanitary sewer manhole at STA. 26+05.3
EL. = 5422.10

BLOCK A

DEL MAR TERRACE

BLOCK 3 BLOCK 2 BLOCK 1

RICE AVE. N.E. JAMES AVE. N.E.

S 1/2 OF W 1/2 OF NW 1/4 OF NW 1/4 SECTION 5

TOWNSHIP 10 NORTH RANGE 4 EAST

LINE A

Existing Ground

60" R.C.P. S=0.00155 | 60" R.C.P. S=0.00155 | 60" R.C.P. S=0.00155 | 48" R.C.P. S=0.0029

JUNCTION BOX Inlet Invert Elev. 5409.98
6' DIA. Manhole Type C Outlet Invert Elev. 5410.09
6' DIA. Manhole Type C Inlet Invert Elev. 5410.29
6' DIA. Manhole Type C Outlet Invert Elev. 5410.83
6' DIA. Manhole Type C Inlet Invert Elev. 5410.93
6' DIA. Manhole Type C Outlet Invert Elev. 5411.32
6' DIA. Manhole Type C Inlet Invert Elev. 5411.42
6' DIA. Manhole Type C Outlet Invert Elev. 5411.61
6' DIA. Manhole Type C Inlet Invert Elev. 5412.06

5420 5410 5400 5390

26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41

TOWNSHIP 10 NORTH RANGE 4 EAST

TOWNSHIP 11 NORTH RANGE 4 EAST

G' DIA. Manhole Type B
Inlet Invert = 14.68
Outlet Invert = 14.08

NE 1/4 OF NE 1/4 SECTION 5

JUNCTION BOX STA. 51+80
Montgomery Inlet Invert = 22.67
Wyoming Outlet Invert = 20.95
Wyoming Inlet Invert (North) = 24.00

EAST 15 ACRES OF LOT 4 SECTION 31

Right of Way

48" R.C.P. 42" R.C.P. 36" R.C.P. 21" R.C.P.

SURVEY LINE

STA 54+13.04 Line A = EQUATION STA 0+33.22 Line B

3/4" Iron Pipe

S.M.H. S.M.H. S.M.H.

6' DIA. MANHOLE Type B STA. 44+90
Inlet Invert = 16.14
Outlet Invert = 16.04

6' DIA. MANHOLE Type B STA. 48+40
Inlet Invert = 18.10
Outlet Invert = 17.15

6' DIA. MANHOLE Type B STA 54+13.04
Inlet Invert = 27.00
Outlet Invert = 26.54

WYOMING BOULEVARD N.E. MONTGOMERY BOULEVARD

30" R.C.P.

Line B

Right of Way

6' DIA. Manhole Type B
Inlet Invert = 15.22
Outlet Invert = 15.20

N 1/2 OF W 1/2 OF NW 1/4 OF NW 1/4 SECTION 5

LINE A

LOT 1 SECTION 32

TO THOMAS RESERVOIR AND WELL NO. 1

TOWNSHIP 10 NORTH RANGE 4 EAST

TOWNSHIP 11 NORTH RANGE 4 EAST

SCALE: Horiz. 1" = 50' Vert. 1" = 10'

Existing Ground

48" R.C.P. S=0.00389 | S=0.00389 | 48" R.C.P. | 42" R.C.P. S=0.00389 | 36" R.C.P. S=0.00814 | 21" R.C.P. S=0.0072

JUNCTION BOX Inlet Invert Elev. 5410.05
6' DIA. Manhole Type B Outlet Invert Elev. 5410.89
6' DIA. Manhole Type B Inlet Invert Elev. 5411.09
6' DIA. Manhole Type B Outlet Invert Elev. 5411.70
6' DIA. Manhole Type B Inlet Invert Elev. 5411.90
6' DIA. Manhole Type B Outlet Invert Elev. 5412.15
6' DIA. Manhole Type B Inlet Invert Elev. 5412.35
6' DIA. Manhole Type B Outlet Invert Elev. 5412.60
6' DIA. Manhole Type B Inlet Invert Elev. 5412.80
JUNCTION BOX Inlet Invert Elev. 5420.85
6' DIA. Manhole Type B Outlet Invert Elev. 5422.00
6' DIA. Manhole Type B Inlet Invert Elev. 5422.36
6' DIA. Manhole Type B Outlet Invert Elev. 5422.56
6' DIA. Manhole Type B Inlet Invert Elev. 5422.76

5430 5420 5410 5400

41 42 43 44 45 46 47 48 49 50 51 52 53 54

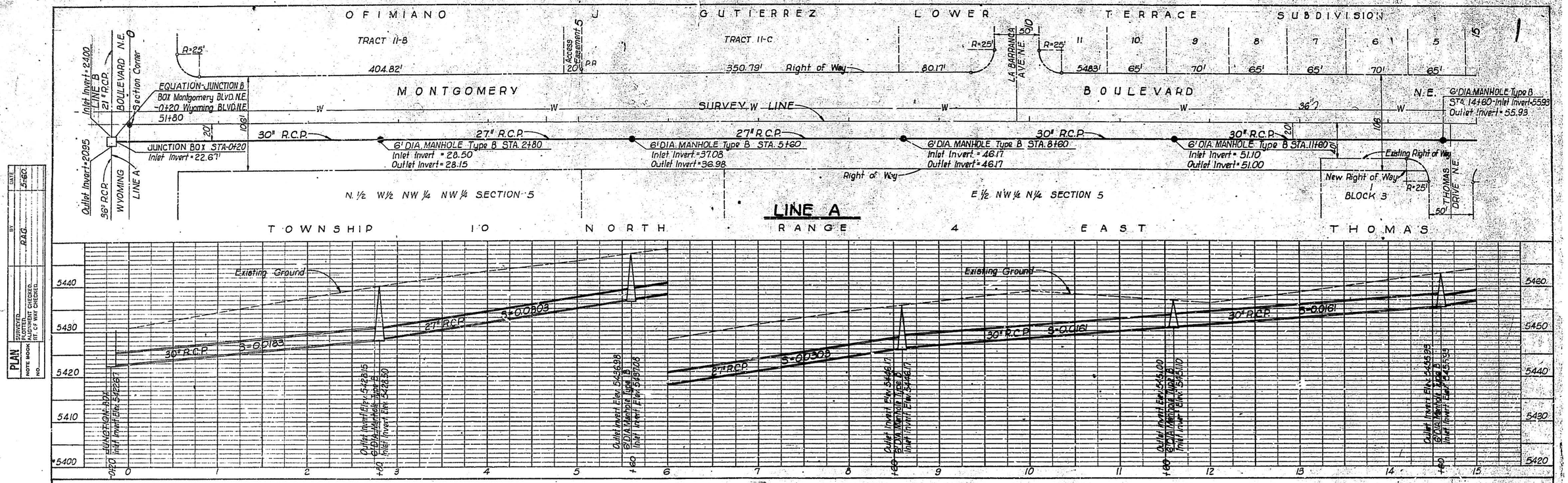
PLAN — SURVEYED — PLOTTED — NOTE BOOK — NO. — BY: R.A.G. — DATE: 5-60

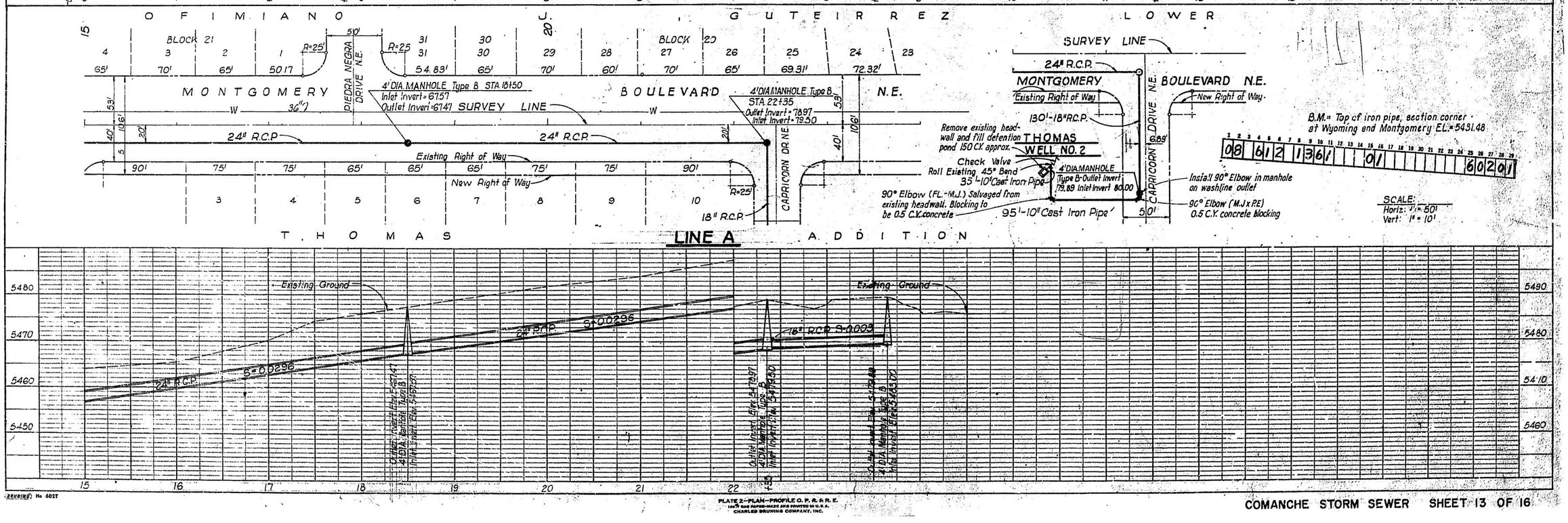
PROFILE — SURVEYED — PLOTTED — GRADES CHECKED — NOTE BOOK — NO. — BY: R.A.G. — DATE: 5-60

BRUNING No. 6027

PLATE 2—PLAN-PROFILE O. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY, INC.

COMANCHE STORM SEWER SHEET 12 OF 16





PLAN — SURVEYED; PLOTTED; GRADES CHECKED; ALIGNMENT CHECKED; NOTE BOOK; NO.; BY: R.A.G.; DATE: 5-60.

PROFILE — SURVEYED; PLOTTED; GRADES CHECKED; ALIGNMENT CHECKED; NOTE BOOK; NO.; BY: R.A.G.; DATE: 5-60.

DRAWING No. 602T

PLATE 2—PLAN—PROFILE O. P. R. & R. E.
10% RAG PAPER-MADE AND POINTED IN U.S.A.
CHARLES BRUNING COMPANY, INC.

COMANCHE STORM SEWER SHEET 13 OF 16

TOWNSHIP 11 NORTH RANGE 4 EAST

AZTEC ADDITION NO. 2

4'DIA MANHOLE Type B STA 0+33.22 Line B = STA 5+10.04 Line A
Inlet Invert = 5427.00
Outlet Invert = 5426.54

Right of Way

21" R.C.P.

SURVEY LINE

WYOMING BOULEVARD N.E.

16" W

Existing 16" Water Line

20' Easement

36'

W

Existing Gas Line
232'± 21" R.C.P.

5'

10'

Right of Way

Thomas Reservoir Property line

Thomas Reservoir Property Corner

4'DIA MANHOLE Type B
Inlet Invert = 30.10
Outlet Invert = 30.00

305'± 21" R.C.P.

Existing 4'DIA MANHOLE
Invert ELEV. 35.00
Remove 50'± 21" R.C.P. and Plug Outlet in Manhole

Remove Existing Headwall and grade area.

305'± 21" R.C.P.

EQUATION
Comanche BLVD STA. 69+85 =
Moon ST. N.E STA. 14+19.86

6'DIA MANHOLE Type B STA 14+19.86
Inlet Invert = 55.43

B.M. = Southeast lug top sanitary sewer manhole at STA. 26+05.5 on Wyoming EL. = 5422.10

61202

THOMAS RESERVOIR NO. 1

LINE B

86'

54.13

60' R.C.P.

BLVD. N.E.

BLOCK 8

R=25'

1

28

R=25

50'

84.40'

84.46

24" R.C.P.

MESCALERO RD. N.E.

Sanitary M.H.

8'2 5

B.M. = Northeast B.B. Fire hydrant at Southwest corner Comanche and Moon. EL. = 5470.09

80

MOON STREET W N.E.

6'

Right of Way

END OF CONSTRUCTION
4'DIA MANHOLE Type B STA 12+50
Outlet Invert = 61.00

53.45

TRUNK LINE COMANCHE

86'

60202

LINE D

SCALE:
Horiz: 1" = 50'
Vert: 1" = 10'

TOWNSHIP 11 NORTH RANGE 4 EAST

UNPLATTED

5430
5420
5410
5400

Existing Ground
232'± 21" R.C.P. S=0.0129
305'± 21" R.C.P. S=0.016

Outlet Invert Elev. 5426.54
4" DIA Manhole STA 0+33.22 Line B
Inlet Invert Elev. 5427.00

Outlet Invert Elev. 5430.00
4'DIA Manhole Type B
Inlet Invert Elev. 5430.10

Outlet Invert Elev. 5434.00
Existing Manhole

0 1 2 3 4 5 6

13.22 +65.82 +01.28

5470
5460
5450
5440

Existing Ground
21" R.C.P. S=0.003

Outlet Invert Elev. 5441.8
Inlet Invert Elev. 5455.63

4" DIA Manhole STA 14+06.5 Line B
Outlet Invert Elev. 5446.00

14 13

+65.82 +50

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
REC. OF WAY CHECKED
BY
DATE
RAS
3-60

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
08 6 1 2 1 4 6 1 0 1 6 1 2 0 2
60202

(REVISED) No. 8027

PLATE 2—PLAN—PROFILE C. P. R. & R. E.
100% RAG PAPER—MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY, INC.

T O W N S H I P I I N O R T H R A N G E 4 E A S T

A Z T E C A D D I T I O N T O N E . N O . 1 2

T O W N S H I P I I N O R T H R A N G E 4 E A S T U N P L A T T E D

STA 0+33.22 Line B
4'DIA MANHOLE Type B EQUATION STA 5+43.04 Line A
Inlet Invert = 5427.00
Outlet Invert = 5426.54

Right of Way

21" R.C.P.

SURVEY LINE

WYOMING BOULEVARD N.E.

16" W

Existing 16" Water Line

20' Easement

36'

Existing Gas Line

232'± 21" R.C.P.

5'

10'

Thomas Reservoir Property Line

4'DIA MANHOLE Type B
Inlet Invert = 30.10
Outlet Invert = 30.00

305'± 21" R.C.P.

Thomas Reservoir Property Corner

61202

LINE B

THOMAS RESERVOIR NO. 1

Existing 4'DIA MANHOLE
Invert ELEV. 35.00
Remove 30'± 21" R.C.P. and Plug Outlet in Manhole

Remove Existing Headwall and grade area.

305'± 21" R.C.P.

B.M. = Southeast lug top sanitary sewer manhole at STA. 26+05.5 on Wyoming EL. = 5422.10

EQUATION
Comanche BLVD STA. 69+85 =
Moon ST. N.E STA. 14+19.86

6'DIA. MANHOLE Type B STA 14+19.86
Inlet Invert = 55.45

54.13

53.45

60' R.C.P. BLVD. N.E.

TRUNK LINE COMANCHE

86'

86'

BLOCK 8

23

R=25'

R=25'

84.40'

84.46

50'

MESCALERO ST. RD.

6'2

Sanitary M.H.

8'2 S

24" R.C.P.

80

M O O N S T R E E T W N.E.

6'

Right of Way

END OF CONSTRUCTION
4'DIA MANHOLE Type B STA. 12+50
Outlet invert = 61.00

60202

LINE D

B.M. = Northeast B.B. Fire hydrant at Southwest corner Comanche and Moon. EL. = 5470.09

SCALE:
Horiz.: 1" = 50'
Vert.: 1" = 10'

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
DATE 5-60
P.A.C.
FIELD CHECKED
ALIGNMENT CHECKED
H.P. & INK CHECKED

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
STRUCTURE NO(ATHIS OFFICE)
BY
DATE

Existing Ground

232'± 21" R.C.P. S=0.0129

305'± 21" R.C.P. S=0.016

5430
5420
5410
5400

Outlet Invert Elev 5426.54
4'DIA Manhole Type B
Inlet Invert Elev 5427.00
+33.22

Outlet Invert Elev 5429.60
4'DIA Manhole Type B
Inlet Invert Elev 5430.10
+66.22

Outlet Invert Elev 5445.00
Existing Manhole
+102.2

0 1 2 3 4 5 6

Existing Ground

24" R.C.P. S=0.003

5470
5460
5450
5440

Inlet Invert Elev 5455.46
24" R.C.P.
+135.6

Outlet Invert Elev 5461.00
4'DIA Manhole Type B
+56.0

14 13

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
08 6 1 2 1 4 6 1 0 1 6 1 2 0 2
60202

(original) No. 4021

PLATE 2—PLAN—PROFILE O. P. R. & R. C.
100% RAG PAPER—MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY, INC.

COMANCHE STORM SEWER SHEET 14 OF 16

LOMA DEL REY SUBDIVISION

THOMAS ADDITION

OFIMIANO GUTIERREZ

LINE C

PLAN — DATE: 5-60 — W.E.R. — SURVEYED, PLOTTED, ALIGNMENT CHECKED, P.I. OR MAT CHECKED — NOTE: BMs ON PLAN — NO.

PROFILE — DATE: 12-60 — W.E.R. — SURVEYED, PLOTTED, GRADES CHECKED, P.I. MATCH, ELEVATIONS CHECKED — NO.

PLATE 2—PLAN-PROFILE O. P. R. & R. E.

COMANCHE STORM SEWER SHEET 15 OF 16

O F I M I A N O J. G U T I E R R E Z L O W E R T E R R A C E S U B D I

TRACT 20-A

BLOCK 19

Right of way 850'

6'DIA TYP
STA 44+C
Inlet Invert
Outlet Invert

6'DIA TYPE B MANHOLE
STA 30+00
Inlet Invert = 98.28
Outlet Invert = 98.18

829.27'

79.99'

MARGUERITA STREET N.E.

R=25'

R=25'

50'

53'

106'

70'

33'

W — MONTGOMERY — W — W — BOULEVARD — W — 36"? — W — N.E.

℄ SURVEY LINE

30"R.C.P.?

27"R.C.P.?

27"R.C.P.?

27"R.C.P.?

27"R.C.P.?

610.02'
Right of way

B.M. = Northeast B.B. Fire hydrant at Southwest corner Comanche and Moon approximately 400 east of STA. 14+19.86 Moon St. EL. = 5470.09

GARCIA STREET NE

50'

628.96'

1323.47'

6'DIA TYPE B MANHOLE
STA 33+50
Inlet Invert = 08.87
Outlet Invert = 08.78

6'DIA TYPE B MANHOLE
STA 37+00
Inlet Invert = 18.28
Outlet Invert = 18.18

6'DIA TYPE B MANHOLE
STA 40+50
Inlet Invert = 27.69
Outlet Invert = 27.59

BLOCK 22

BLOCK 23

T H O M A S A D D I T I O N

LINE C

N E ¼ N ¼ SEC. 5 T. 1 O N. R. 4 E.

Existing ground

27"R.C.P. S=0.030

30"R.C.P. S=0.0173

27"R.C.P. S=0.0266

27"R.C.P. S=0.0266

27"R.C.P. S=0.0266

27"R.C.P. S=0.0266

Outlet Invert Elev. 5498.12
6'DIA Type B Manhole
Inlet Invert Elev. 5498.22

Outlet Invert Elev. 5503.22
6'DIA Type B Manhole
Inlet Invert Elev. 5503.32

Outlet Invert Elev. 5508.22
6'DIA Type B Manhole
Inlet Invert Elev. 5508.32

Outlet Invert Elev. 5513.39
6'DIA Type B Manhole
Inlet Invert Elev. 5513.49

Outlet Invert Elev. 5518.49
6'DIA Type B Manhole
Inlet Invert Elev. 5518.59

5530
5520
5510
5500
5490

29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

5 55 5530 5520 5510

O F I M I A N O J. G U T I E R R E Z L O W E R T E R R A C E S U B D I V I S I O N

5½ SW¼ SW¼ SW¼ SW¼

5½ SE¼ SW¼ SW¼ SW¼

45 50' 50' 106'

ALTA BLANCA STREET NE

R=25' R=25' R=25'

800' 20' 106'

6'DIA TYPE B MANHOLE
STA 47+35
Inlet Invert = 49.20
Outlet Invert = 47.33

TRACT 16-A
Right of way 50.99'

EUBANK BOULEVARD NE

55 6'DIA TYPE B MANHOLE
STA. 56+00
Inlet Invert = 72.41
Outlet Invert = 72.31

276.58'

326.58'

53' 106' 20' 33'

W — MONTGOMERY — N — W — BOULEVARD — W — 36"? — N.E.

℄ SURVEY LINE

END OF CONSTRUCTION
STA 58+75.0

27"R.C.P.? 27"R.C.P.? 27"R.C.P.? 27"R.C.P.? 27"R.C.P.?

1322.47'

6'DIA TYPE B MANHOLE
STA 44+00
Inlet Invert = 38.40
Outlet Invert = 37.00

6'DIA TYPE B MANHOLE
STA 49+85
Inlet Invert = 56.07
Outlet Invert = 55.75

6'DIA TYPE B MANHOLE
STA 52+80
Inlet Invert = 65.49
Outlet Invert = 63.77

1318.30'
Right of way
A/K/A LOT A

106'

6'DIA TYPE B MANHOLE
STA 58+75
Outlet Invert = 79.00

SCALES
Horiz. = 1"=50'
Vert = 1"=10'

N E ¼ N ¼ SEC. 5 T. 1 O N. R. 4 E.

LINE C

N W ¼ N W ¼ SEC. 4 T. 1 O N. R. 4 E

Existing ground

27"R.C.P. S=0.0261

27"R.C.P. S=0.0261

27"R.C.P. S=0.0261

27"R.C.P. S=0.0219

27"R.C.P. S=0.0219

Outlet Invert Elev. 5503.39
6'DIA Type B Manhole
Inlet Invert Elev. 5503.49

Outlet Invert Elev. 5508.49
6'DIA Type B Manhole
Inlet Invert Elev. 5508.59

Outlet Invert Elev. 5517.31
6'DIA Type B Manhole
Inlet Invert Elev. 5517.41

Outlet Invert Elev. 5527.00
6'DIA Type B Manhole
Inlet Invert Elev. 5527.10

5560
5550
5540
5530
5520

44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59

5580 5570 5560 5550 5540

COMANCHE STORM DRAIN SHEET 16 OF 16

PLAN — DATE 5-60 — SURVEYED — DRAWN R.A.G — TRACED — ALIGNMENT CHECKED — PT. OF WAY CHECKED — NOTE BOOK — NO.

PROFILE — DATE 5-60 — SURVEYED — DRAWN R.A.G — TRACED — LEVELS CHECKED — NOTE BOOK — NO.

SIERRA AZUL SUBDIVISION

EQUATION
JUNCTION BOX STA. 26+10 on Wyoming
STA. 43+20 Comanche Inlet Invert = 09.76
Outlet Invert = 09.39
Wyoming Inlet Invert = 09.76

BLOCK 1 — 14 — 13 — 32 — 31 — 30 — BLOCK 35 — 10 — 29 — 28 — 18 — 17

30' Alley — 50' — R=25' — HARWOOD AVE. N.E. — R=25'

6' DIA. MANHOLE Type B STA. 37+90
Inlet Invert = 13.06
Outlet Invert = 11.97

Right of Way — 60" R.C.P. — 60" R.C.P. — 60" R.C.P. — 48" R.C.P.

¾" Iron Pipe — S.M.H. — 20' — 10.6' — S — ℄ 12" — S.M.H. — SURVEY LINE — S.M.H. — S.M.H. — 20' — 10.6'

COMANCHE ROAD N.E. — TRUNK LINE

6' DIA. MANHOLE Type C
STA. 28+40
Inlet Invert = 10.29 · Outlet Invert = 10.19

WYOMING

6' DIA. MANHOLE Type C STA. 30+90
Inlet Invert = 10.73
Outlet Invert = 10.68

6' DIA. MANHOLE Type C STA. 34+40
Inlet Invert = 11.42
Outlet Invert = 11.32

BOULEVARD N.E.

Right of Way — 687.03' — Right of Way

B.M. = Southeast lug top of sanitary sewer manhole at STA. 26+05.3
EL. = 542.10

BLOCK A — 20' Alley — 95' — 50' — 85' — 95' — 50' — 95'

BLOCK 3 — 1 — R=25' — RICE AVE. N.E. — R=25' — BLOCK 18 — BLOCK 2 — 1 — R=25' — JAMES AVE. N.E. — R=25' — BLOCK 1

S ½ OF W ½ OF NW ¼ OF NW ¼ SECTION 5

TOWNSHIP 10 NORTH RANGE 4 EAST

DEL MAR TERRACE

LINE A

Existing Ground

60" R.C.P. S=0.00155 — 60" R.C.P. S=0.00155 — 60" R.C.P. S=0.00155 — 60" R.C.P. S=0.00155 — 48" R.C.P. S=0.0629

JUNCTION BOX
Inlet Invert Elev. 5419.76

6' DIA Manhole Type C
Outlet Invert Elev. 5419.69
Inlet Invert Elev. 5421.28

6' DIA Manhole Type C
Outlet Invert Elev. 5421.18
Inlet Invert Elev. 5423.08

6' DIA Manhole Type C
Outlet Invert Elev. 5423.02
Inlet Invert Elev. 5425.02

6' DIA Manhole Type C
Outlet Invert Elev. 5424.96
Inlet Invert Elev. 5426.86

6' DIA Manhole Type B
Outlet Invert Elev. 5427.06
Inlet Invert Elev. 5429.06

5420 — 5410 — 5400 — 5390

26 — 27 — 28 — 29 — 30 — 31 — 32 — 33 — 34 — 35 — 36 — 37 — 38 — 39 — 40 — 41

TOWNSHIP 10 NORTH RANGE 4 EAST

NE ¼ OF NE ¼ SECTION 5

6' DIA Manhole Type B
Inlet Invert = 14.38
Outlet Invert = 14.28

6' DIA Manhole Type B
Inlet Invert = 15.22
Outlet Invert = 15.20

N ½ OF W ½ OF NW ¼ OF NW ¼ SECTION 5

TOWNSHIP 10 NORTH RANGE 4 EAST

JUNCTION BOX STA. 51+80
Montgomery Inlet Invert = 22.67
Wyoming Outlet Invert = 20.95
Wyoming Inlet Invert (North) = 24.00

TOWNSHIP 11 NORTH RANGE 4 EAST

EAST 15 ACRES OF LOT 4 SECTION 31

106' — N.E. — 36' — W — BOULEVARD — MONTGOMERY — LINE A — 106'

Right of Way — 48" R.C.P. — 42" R.C.P. — 36" R.C.P. — 21" R.C.P. — 30" R.C.P.

STA 54+13.04 Line A = EQUATION STA 0+33.22 Line B

¾" Iron Pipe — S.M.H. — 20' — 10.6' — S — ℄ 12" — S.M.H. — SURVEY LINE — S.M.H. — S.M.H. — 36' — W — ℄ 36" — 20' — 10.6' — S — ℄ 16" — W — 12½

WYOMING — BOULEVARD — N.E.

6' DIA Manhole Type B STA 54+13.04
Inlet Invert = 27.00
Outlet Invert = 26.54

Line B — 124.82' — 20' — Right of Way

LOT 1 — SECTION 32
TO THOMAS RESERVOIR AND WELL NO. 1

TOWNSHIP 11 NORTH RANGE 4 EAST

SCALE:
Horiz. : 1" = 50'
Vert. : 1" = 10'

LINE A

Existing Ground

48" R.C.P. S=0.00389 — 48" R.C.P. S=0.00389 — 48" R.C.P. — 42" R.C.P. S=0.00589 — 36" R.C.P. S=0.00814 — 21" R.C.P. S=0.00712

Outlet Invert Elev. 5417.28
6' DIA Manhole Type B
Inlet Invert Elev. 5419.89

Outlet Invert Elev. 5419.70
6' DIA Manhole Type B
Inlet Invert Elev. 5421.92

Outlet Invert Elev. 5421.84
6' DIA Manhole Type B
Inlet Invert Elev. 5423.84

Outlet Invert Elev. 5423.76
6' DIA Manhole Type B
Inlet Invert Elev. 5425.76

Outlet Invert Elev. 5425.66
JUNCTION BOX
Inlet Invert Elev. 5427.00

Outlet Invert Elev. 5426.94
6' DIA Manhole Type B
Inlet Invert Elev. 5428.84

5430 — 5420 — 5410 — 5400

41 — 42 — 43 — 44 — 45 — 46 — 47 — 48 — 49 — 50 — 51 — 52 — 53 — 54

BRUNING, No. 6021

PLATE 2 — PLAN - PROFILE O. P. R. & R. E.
16½ lb. RAG PAPER-RUSS AUTOTYPE 18 U. S. A.
CHARLES BRUNING COMPANY, INC.

COMANCHE STORM SEWER SHEET 12 OF 16