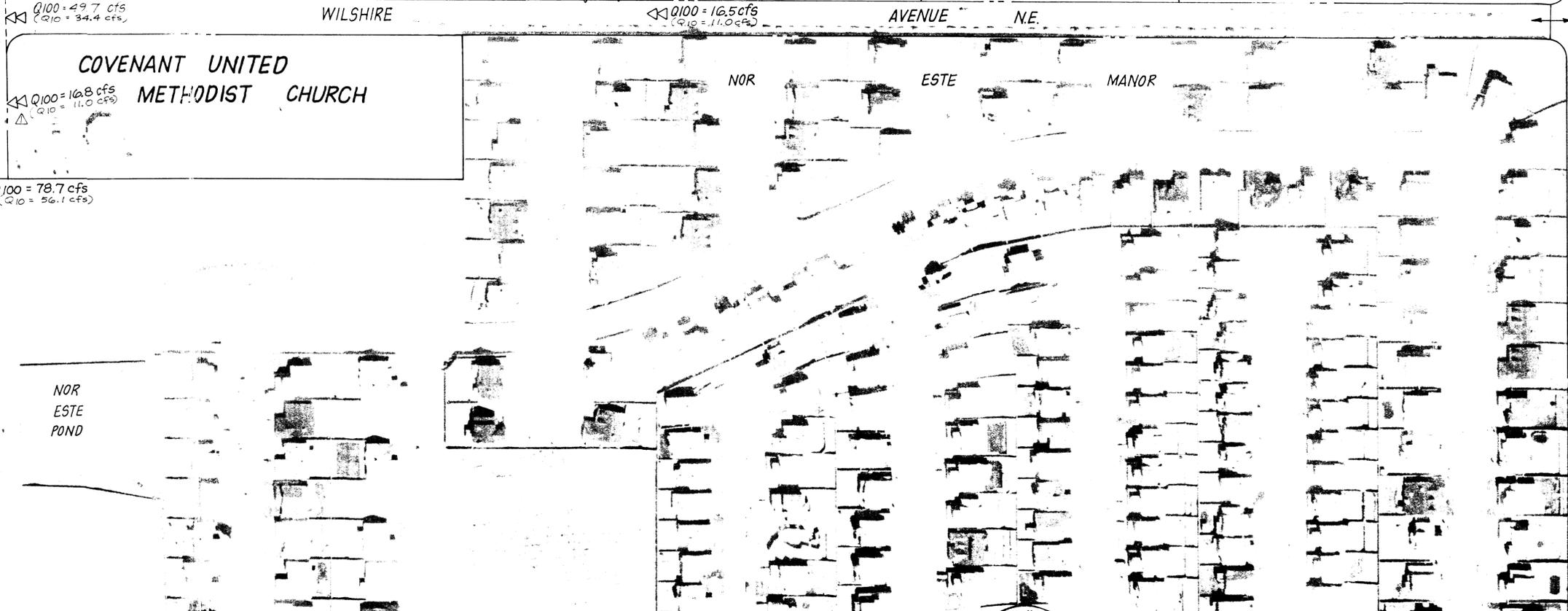
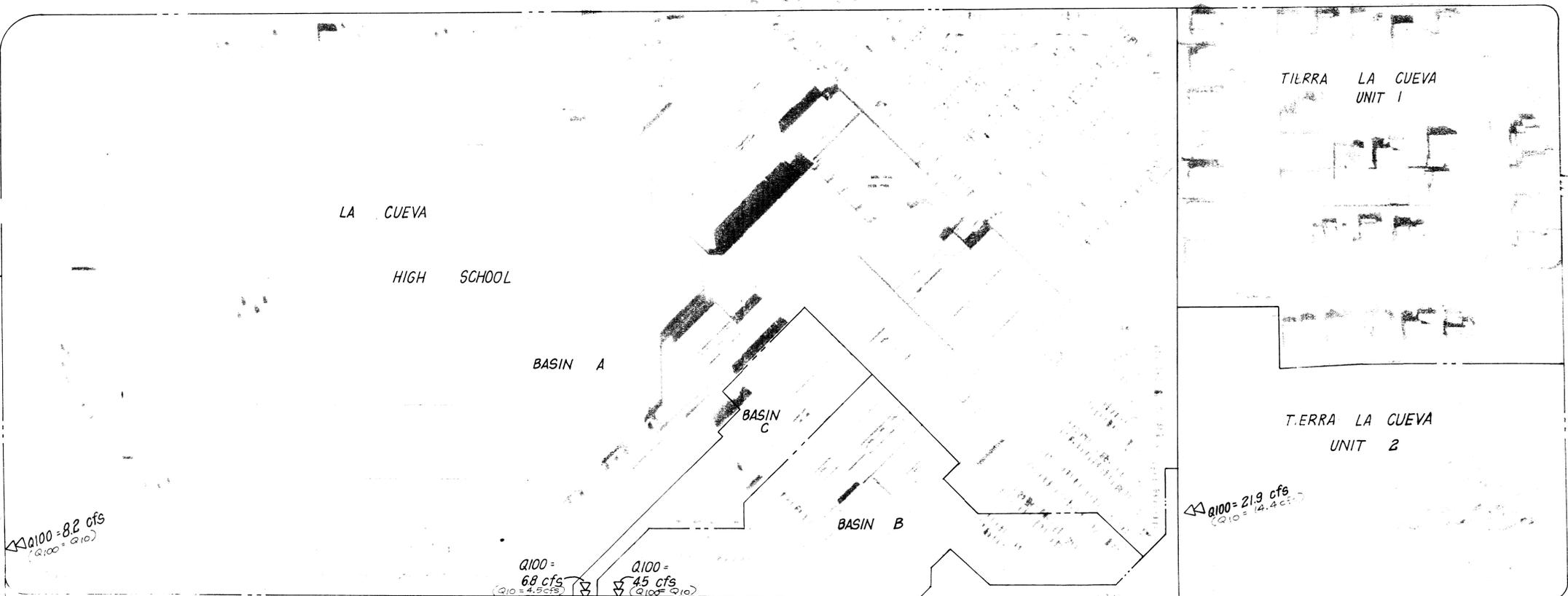


ALAMEDA BLVD. NE



N.E.
BLVD.
WYOMING
Q100 = 12.2 cfs
Q100 = 4.0 cfs
Q100 = 8.2 cfs
Q100 = 6.8 cfs
Q100 = 4.5 cfs
Q100 = 4.9 cfs
Q100 = 16.5 cfs
Q100 = 21.9 cfs
Q100 = 61.9 cfs
Q100 = 78.7 cfs



Jma
JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS (505) 345-4250

WATERSHED MAP

COVENANT UNITED METHODIST CHURCH



DESIGNED BY J.G.M.
DRAWN BY T.P.H.
APPROVED BY J.G.M.

NO. 93 MFD
DATE 06/93
SHEET 1 OF 6

JOB NO. 920412
DATE 06/93
SHEET 1 OF 6

DRAINAGE ANALYSIS

The following analysis has been prepared to determine the extent of public infrastructure required in conjunction with the development of the Covenant United Methodist Church. The required infrastructure for drainage is related to conformance with the Drainage Ordinance. Criteria as stated in the Development Process Manual are as follows:

- a. "In the event of the 10-year design discharge (depth) may not exceed 0.5 feet in any collector or ARTERIAL street. One lane free of flowing or standing water in each traffic direction must be preserved on arterial streets."
b. "The product of depth times velocity (dv) shall not exceed 6.5 in any location of any street in the event of a 10-year design storm."

v = fps; d = depth above gutter flowline.

As shown on the Watershed Map, four drainage basins contribute runoff to Wilshire Avenue N.E., a local street. In addition, two drainage basins contribute runoff to Wyoming Boulevard N.E., a Principal Arterial. Because the tabulated discharge rates exceed the above referenced criteria for street flow, an underground storm drain system has been identified. As shown on the paving plan and profile sheets, street grades have been established and storm inlets located on both Wilshire Avenue N.E. and Wyoming Boulevard N.E. The storm drain will ultimately drain south to discharge to the North Arroyo de Domingo Baca. The gradient of storm drain piping has been established equal to the street gradient.

The calculations which appear hereon analyze the existing and developed conditions for the 100-year, 6-hour rainfall event. Where discharge rates and volumes have been previously identified, those values have been reprinted below. Where values did not presently exist, current calculations have been performed. Using the Procedure for 40 Acre and Smaller Basins set forth in the Revision of Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated August 1991, normal depth street flow has been calculated by the Manning Equation. For supercritical conditions, the sequent depth method has been used. Storm inlet grating capacities have been evaluated using the nomographs set forth in the DPM and reprinted hereon. Pipe flow capacities are calculated using the Manning Equation.

CALCULATIONS

I. HYDROLOGY

Site Characteristics

- 1. Precipitation Zone 3
2. P_100 = P_360 = 2.60
3. Total Area (A_T)
4. Land Treatments
a. Tierra La Cueva - Unit 2 (refer to C19/D9A)
b. La Cueva High School (refer to C19/D1)
c. Wilshire Avenue (A_T = 3.44 Ac)
Treatment Area (sf/ac) %
C 32,500/0.74 21.7
D 117,500/2.70 78.3
d. Wyoming Boulevard (A_T = 0.98 Ac)
Treatment Area (sf/ac) %
B 12,600/0.29 29.4
C 13,800/0.31 32.2
D 16,500/0.38 38.4
5. Developed Land Treatment
a. Tierra La Cueva - Unit 2 - No Change
b. La Cueva High School - No Change
c. Wilshire Avenue
Treatment Area (sf/ac) %
C 20,000/0.46 13.3
D 130,000/2.98 86.7
d. Wyoming Avenue
Treatment Area (sf/ac) %
B 12,600/0.29 29.4
C 7,700/0.18 18.0
D 22,550/0.52 52.6

Existing Condition

- A. Tierra La Cueva - Unit 2 (from C19/D9A)
V_100 = 33,300 cf
Q_100 = 21.9 cfs
B. La Cueva High School (from C19/D1)
1. Basin A
V_100 = 166,670 cf
Q_100 = Q_release = 8.2 cfs
2. Basin B
V_100 = 22,080 cf
Q_100 = Q_release = 4.5 cfs
3. Basin C
V_100 = 11,750 cf
Q_100 = 6.8 cfs
C. Wilshire Avenue
E_w = [(1.29)(0.74) + (2.36)(2.70)]/3.44 = 2.13 in
V_100 = (E_w/12)A = 0.61 ac. ft.
Q_100 = 3.45(0.74) + 5.02(2.70) = 16.1 cfs
D. Wyoming Boulevard
E_w = [(0.92)(0.29) + (1.29)(0.31) + (2.36)(0.38)]/0.98 = 1.60 in
V_100 = (E_w/12)A = 0.13 ac. ft.
Q_100 = 2.60(0.29) + 3.45(0.31) + 5.02(0.38) = 3.7 cfs

Developed Condition

- A. Tierra La Cueva - Unit 2 - No Change
B. La Cueva High School - No Change
C. Wilshire Avenue
E_w = [(1.29)(0.46) + (2.36)(2.98)]/3.44 = 2.22 in
V_100 = (E_w/12)A = 0.64 ac. ft.
Q_100 = 3.45(0.46) + 5.02(2.98) = 16.5 cfs
D. Wyoming Boulevard
E_w = [(0.92)(0.29) + (1.29)(0.18) + (2.36)(0.52)]/0.98 = 1.76 in
V_100 = (E_w/12)A = 0.14 ac. ft.
Q_100 = 2.60(0.29) + 3.45(0.18) + 5.02(0.52) = 4.0 cfs
E. Covenant United Methodist Church (Full Development) (From the Conceptual Plan)
1. Basin A
V_100 = 16,300 cf
Q_100 = 10.1 cfs
V_10 day = 30,150 cf
2. Basin B
V_100 = 10,800 cf
Q_100 = 6.7 cfs
V_10 day = 20,040 cf

Comparison

- A. Wilshire Avenue
1. Volume
V_T, Exist. = 33,300 + 22,080 + 11,750 + 26,600 = 93,730 cf
V_T, Dev. = 33,300 + 22,080 + 11,750 + 27,750 = 94,880 cf
Delta V_100 = 94,880 - 93,730 = 1150 cf (increase)
2. Discharge
Q_T, Exist. = 21.9 + 4.5 + 6.8 + 16.1 = 49.3 cfs
Q_T, Dev. = 21.9 + 4.5 + 6.8 + 16.5 = 49.7 cfs
Delta Q_100 = 49.7 - 49.3 = 0.4 cfs (increase)
B. Wyoming Boulevard
1. Volume
V_T, Exist. = 166,670 + 5,700 + 4,990 + 10,800 = 188,160 cf
V_T, Dev. = 166,670 + 6,300 + 16,300 + 10,800 = 200,070 cf
Delta V_100 = 200,070 - 188,160 = 11,910 cf (increase)
2. Discharge
Q_T, Exist. = 8.2 + 3.7 + 6.7 + 4.0 = 22.6 cfs
Q_T, Dev. = 8.2 + 4.0 + 10.1 + 6.7 = 29 cfs
Delta Q_100 = 29.0 - 22.6 = 6.4 cfs (increase)

II. STREET HYDRAULICS

Normal depth is calculated for both streets using Manning's Equation. The sequent depth is used for Wilshire Avenue to determine total flow depth including the hydraulic jump depth.

Input Criteria:

- a) Manning's n = 0.017
b) Cross sectional geometry
c) Normal depth
A. Wilshire Avenue N.E.
A_n = 4.08 sf
A_b = 2.47 sf
A_T = 20.484 ft
P_n = 15.85 ft
R_n^2/3 = (A/P)^2/3
S^1/2 = 0.1892 (0.0358 slope)
Q_10 = 35 cfs
Max Q_capacity of one side of road before it flows over the crown is 23.1 cfs, so the rest flows to the south side of the road (11.9 cfs)
Q_n = 23.1 cfs @ d = 0.484'
Q_b = 11.3 cfs @ d = 0.388'

Use Sequent Depth Method due to supercritical flow in Wilshire Avenue N.E.
d_seq = 0.5d_1(1+8F^2)^1/2 - 1 (eq. 3-21 from Open Channel Hydraulics by Ven Te Chow)
F = v / (gd_1)^1/2
V = Q/A;
G = 32.2 ft/sec^2
V_n = Q_n/A_n = 23.1/4.08 = 5.66 fps
V_b = Q_b/A_b = 11.3/2.38 = 4.75 fps
F_n = 1.43
F_b = 1.35
d_n, seq = 0.77 ft < 0.87 ft (max. allowable depth in street)
d_b, seq = 0.58 ft < 0.87 ft (max. allowable depth in street)

dv = (d)(v)
dvn = (0.484)(5.66) = 2.74 < 6.5 max. allowable; satisfies criteria
dvs = (0.388)(4.75) = 1.84 < 6.5 max. allowable; satisfies criteria
d_100 > d_crown then let flow be evenly distributed
SO both sides of the road will have a Q of 25.3 cfs
Q = 25.3 cfs
A = 4.29 sf
P = 20.495 ft
R = (A/P)^2/3
S = (0.005)^1/2
d = 0.495 ft
Use Sequent Depth Method due to supercritical flow in Wilshire Avenue N.E.
d_seq = 0.5d_1(1+8F^2)^1/2 - 1
F = v / (gd_1)^1/2
g = 32.2 ft/sec^2
V = Q/A;
V = 5.90 ft/sec
F = 1.48
d_seq = 0.818 ft < 0.87 ft (max. allowable depth in street)
dv = (0.495)(5.9) = 2.92 < 6.5 max. allowable; satisfies criteria

B. Wyoming Boulevard N.E.
Q that leaves one free lane (required for Q_10)
Manning's Equation is used to calculate discharge.
n = 0.017
A = 5.61 sf
R^2/3 = (A/P)^2/3
P = 24.05 ft
S^1/2 = (0.005)^1/2
Q allowable = 13.2 cfs @ d = 0.56'
Q at maximum curb height = 8"
n = 0.017
A = 8.54 sf
P = 29.75 ft
R = (A/P)^2/3
S = (0.005)^1/2
Q = 23.1 cfs @ d = 0.67'

III. INLET CAPACITIES

- A. Wilshire Avenue N.E.: Q_100 = 50.6 cfs
1. For Q_100
a. Single 'A' Storm Inlet (1st in series)
Q_cap = 9.2 cfs (each side of street)
b. Double 'C' Storm Inlet (2nd in series)
Q_cap = 8.6 cfs (each side of street)
c. Double 'C' Storm Inlet (3rd in series)
Q_cap = 5.5 cfs (each side of street)
(3.0 cfs to Wyoming Blvd. N.E.)

- B. Wilshire Avenue N.E.: Q_10 = 11.3
1. Single 'A' Storm Inlet (1st in series 'north side')
Q_cap = 8.8 cfs
Single 'A' Storm Inlet (1st in series 'south side')
Q_cap = 8.8 cfs
2. Double 'C' Storm Inlet (2nd in series 'north side')
Q_cap = 8.4 cfs
Double 'C' Storm Inlet (2nd in series 'south side')
Q_cap = 8.4 cfs
3. Double 'C' Storm Inlet (3rd in series 'north side')
Q_cap = 4.2 cfs
Double 'C' Storm Inlet (3rd in series 'south side')
Q_cap = 4.2 cfs
C. Wyoming Boulevard N.E.
1. Wyoming Boulevard N.E.: Q_10 = 12.7 cfs
+ Intersection Q = 11.3 cfs
Q = 15.3 cfs
a. Single 'A' Storm Inlet (South of Intersection)
Q_cap = 6.0 cfs
b. Double 'C' Storm Inlet (South of Intersection)
Q_cap = 5.2 cfs
Q_remaining = 4.1 cfs
It meets with United Methodist Church Runoff
Q = 16.8 cfs
Q_max = 20.9 cfs
2. Wyoming Boulevard N.E.: Q_10 = 10.7 cfs
+ Intersection Q = 1.3 cfs
Q = 12.0 cfs
a. Single 'A' Storm Inlet (South of Intersection)
Q_cap = 5.4 cfs
b. Double 'C' Storm Inlet (South of Intersection)
Q_cap = 3.9 cfs
Q_remaining = 2.7 cfs
It meets with United Methodist Church Runoff
Q = 11 cfs
Q_max = 13.7 cfs

- D. Wilshire Avenue: Q_100 = 49.7
(Divide by two because of 2 sets of inlets on each side)
25.3 cfs - Passes a Type 'A' Storm Drain
It leaves with 15.65 cfs above ground 9.2 cfs in Inlet
Total = 9.5 cfs
18" RCP = 9.2 cfs 18" Max Q = 15 cfs O.K. @ 2% slope
15.8 cfs - Passes a Type Double 'C' Storm Drain
8.6 cfs in Inlet, Total = 17.8 cfs
24" RCP = 17.8 cfs 24" Max Q = 32 cfs O.K. @ 2% slope
it leaves with 7.05 cfs above ground
7.05 cfs - Passes a Type Double 'C' Storm Drain
5.5 cfs in Inlet, Total = 23.3 cfs
24" RCP = 23.3 cfs 24" Max Q = 32 cfs O.K. @ 2% slope
it leaves 1.55 cfs above ground
It reaches manhole where north and south RCP meet
so Q = 46.6 cfs
42" RCP = 46.6 cfs 42" Max = 73 cfs @ 3% slope
3.1 cfs above ground meets Q_wyoming = 11.2 cfs = 15.3 cfs
Water above ground meets a single 'A' inlet on Wyoming
It takes 6.0 cfs
9.3 cfs above ground
Q_remaining = 52.6 cfs
42" RCP = 52.6 cfs 42" Max = 73 cfs @ 3% slope
9.3 cfs meets Double 'C' Storm Drain
It takes 5.2 cfs
Q_remaining = 57.8 cfs Q_outside = 4.1 cfs
It meets United Methodist Church Runoff
Q = 16.8 cfs
Q_max = 20.9 cfs
23.1 cfs > 20.9 cfs so it is o.k. for 100 year Q

E. Wilshire Avenue: Q_10 = 34.4 cfs
Q_n = 23.1 cfs
Q_b = 11.3 cfs
Calcs for Q_n
23.1 cfs - passes a Type 'A' Storm Drain
8.8 cfs in inlet Total Q = 8.8 cfs
18" RCP = 8.8 cfs Max = 15 cfs @ 2% slope
14.3 cfs above ground
14.3 cfs - passes a Type 'C' Storm Drain
8.4 cfs in inlet Total Q = 17.2 cfs
24" RCP = 17.2 cfs Max = 32 cfs @ 2% slope
5.9 cfs above ground
5.9 cfs - passes a Type Double 'C' Storm Drain
4.6 cfs in inlet Total Q = 22 cfs
24" RCP = 21.8 cfs Max = 32 cfs @ 2% slope
Q_outside = 1.3 cfs

4. Wyoming Boulevard
(Double 'C' Inlet South of Q_church)
Q_100
Q = 20.9 cfs
d = 0.645 ft
P = 28.645 ft
A = 7.925 sf
n = 0.017
s = 0.005
Inlet intakes 8.8 cfs
Q_remaining = 12.1 cfs
d = 0.54 ft
12.1 cfs < 23.1 cfs = Q_allow for Q_100
Q_10
Q = 13.7 cfs
d = 0.563 ft
P = 24.46 ft
A = 5.797 sf
n = 0.017
s = 0.005
Inlet intakes 7.0 cfs
Q_remaining = 6.7 cfs
d = 0.45 ft
0.45 ft < 0.5 ft (max. curb height for Q_10)
6.7 cfs < 13.2 cfs = Q_allow for Q_10

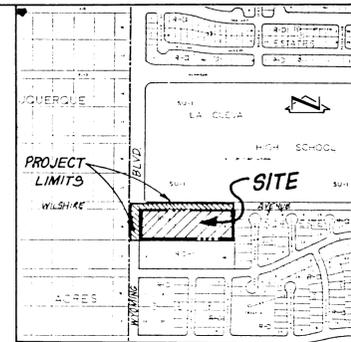
Calcs for Q_b
11.3 cfs - passes a Type 'A' Storm Drain
6.6 cfs in inlet Total Q = 6.8 cfs
18" RCP = 6.6 cfs Max = 15 cfs @ 2% slope
4.7 cfs above ground
5.1 cfs - passes a Type Double 'C' Storm Drain
4.2 cfs in inlet Total Q = 11.1 cfs
24" RCP = 10.8 cfs Max = 32 cfs @ 2% slope
0.5 cfs above ground
0.5 cfs - passes a Type Double 'C' Storm Drain
0.5 cfs in inlet Total Q = 11.3 cfs
24" RCP = 11.3 cfs Max = 32 cfs @ 2% slope
Q_n & Q_b join to a 42" RCP (manhole)
Total Q = 21.8 + 11.3 = 33.1
42" RCP = 33.1 cfs 42" Max = 72 cfs @ 3% slope
1.3 cfs above ground
Outside joins with 10.7 cfs to become 12 cfs
It meets a single 'A' Storm Inlet after inlet has drained
It takes 5.4 cfs from 18" line
Q_tot = 38.5 cfs
Q_outside = 6.6 cfs
It meets a double 'C' Storm Inlet after inlet has drained from 18" line
It takes 3.9 cfs
Q_tot = 42.4 cfs
Q_outside = 2.7 cfs
It meets United Methodist Church Runoff Q = 11.0 cfs
Q_outside = 13.7 cfs
13.7 cfs < 13.2 cfs so it is o.k. for 10 year Q

Storm Drain Hydraulics Pipe Flow
Using Feild's Hydraulics Calculator for Gravity Flow in Pipes
d = 18" n = 0.013 s = 0.02 Q_cap = 15.0
d = 18" n = 0.013 s = 0.005 Q_cap = 7.6
d = 24" n = 0.013 s = 0.02 Q_cap = 32.0
d = 24" n = 0.013 s = 0.005 Q_cap = 16.0
d = 42" n = 0.013 s = 0.005 Q_cap = 72.0

- 2. Street Hydraulics on Wyoming (1 dry driving lane)
n = 0.017
d = 0.555
A = 5.66 sf
P = 24.00 ft
Q = 13.4 cfs
Free lane = 11.5 ft approx 12 ft
2. For a 12' dry lane
d = 0.545'
Difference in depth between Items 1 & 2
= 0.555 - 0.545 = 0.010 ft

3. The DPM requires that flow depth does not exceed 0.5 ft. for the ten year storm. Calculated curb height = 0.555 ft.
Calculated flow depth = 0.555 ft.
Difference = 55/1000 ft.
Calculated flow depth is within a tolerance of 1/10 ft.
These calculations are based upon free discharge from undeveloped and developing properties (Tierra La Cueva and the Church) and "actual" discharge from existing developed sites (La Cueva High School). La Cueva High School is the only contributing site with detention ponding (controlled discharge).

4. Wyoming Boulevard
(Double 'C' Inlet South of Q_church)
Q_100
Q = 20.9 cfs
d = 0.645 ft
P = 28.645 ft
A = 7.925 sf
n = 0.017
s = 0.005
Inlet intakes 8.8 cfs
Q_remaining = 12.1 cfs
d = 0.54 ft
12.1 cfs < 23.1 cfs = Q_allow for Q_100
Q_10
Q = 13.7 cfs
d = 0.563 ft
P = 24.46 ft
A = 5.797 sf
n = 0.017
s = 0.005
Inlet intakes 7.0 cfs
Q_remaining = 6.7 cfs
d = 0.45 ft
0.45 ft < 0.5 ft (max. curb height for Q_10)
6.7 cfs < 13.2 cfs = Q_allow for Q_10



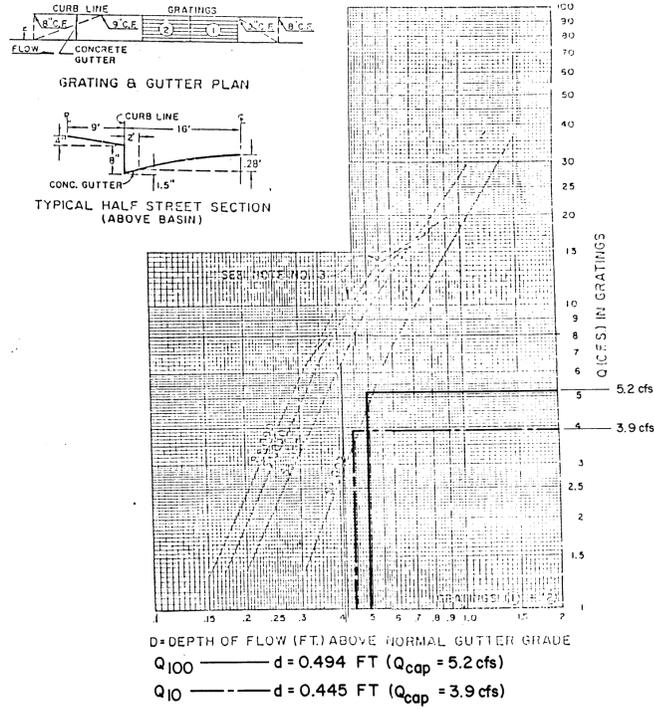
VICINITY MAP SCALE: 1"=800' (APPROX) C-19

Table with columns for AS BUILT INFORMATION, BENCH MARKS, SURVEY INFORMATION, ENGINEER'S SEAL, and various approval and revision dates.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP. TITLE: COVENANT UNITED METHODIST CHURCH PAVING & STORM DRAINAGE IMPROVEMENTS DRAINAGE ANALYSIS & CALCULATIONS. APPROVALS table with columns for ENGINEER, DATE, APPROVALS, ENGINEER, DATE. PROJECT NO. JUN - 2 1994 MAP NO. C-19 SHEET 2 OF 6.

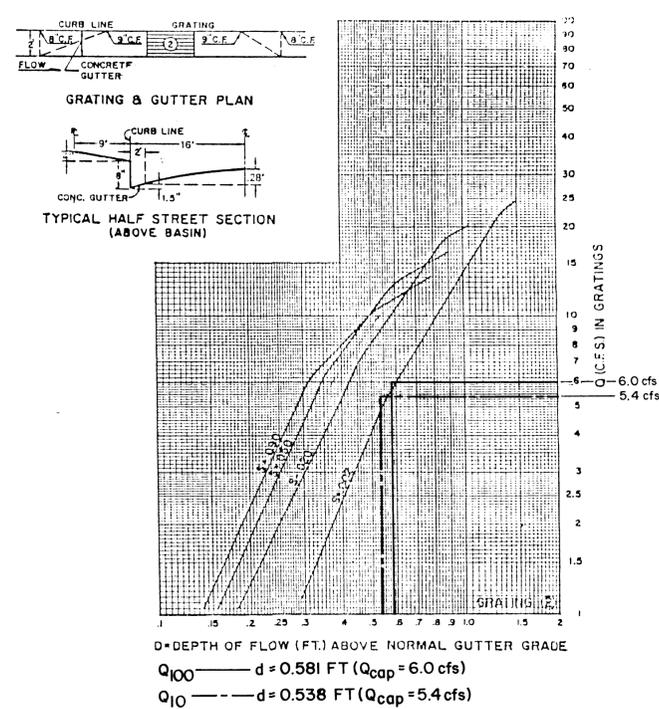
WYOMING BLVD. - DOUBLE 'C'

GRATING CAPACITIES FOR TYPE DOUBLE 'C,' AND 'D'



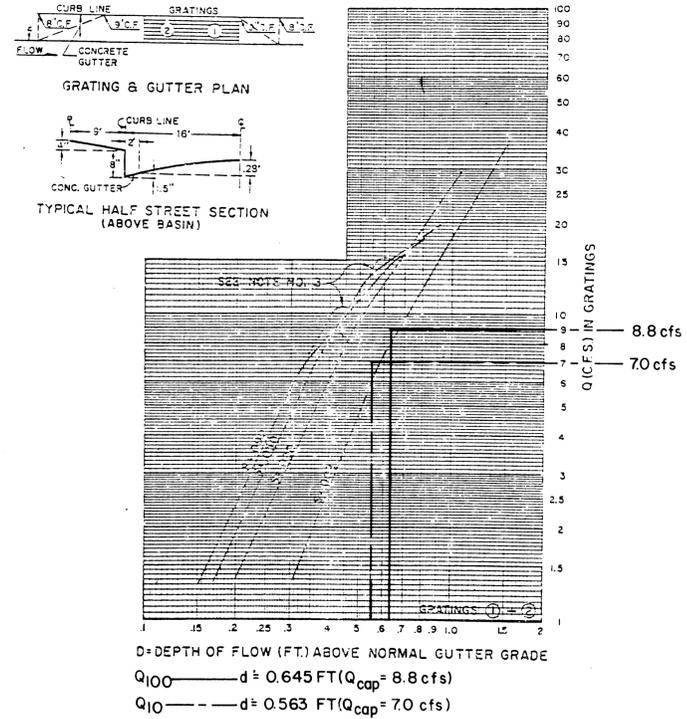
WYOMING BLVD. - SINGLE 'A'

GRATING CAPACITIES FOR TYPE 'A', 'C' AND 'D'



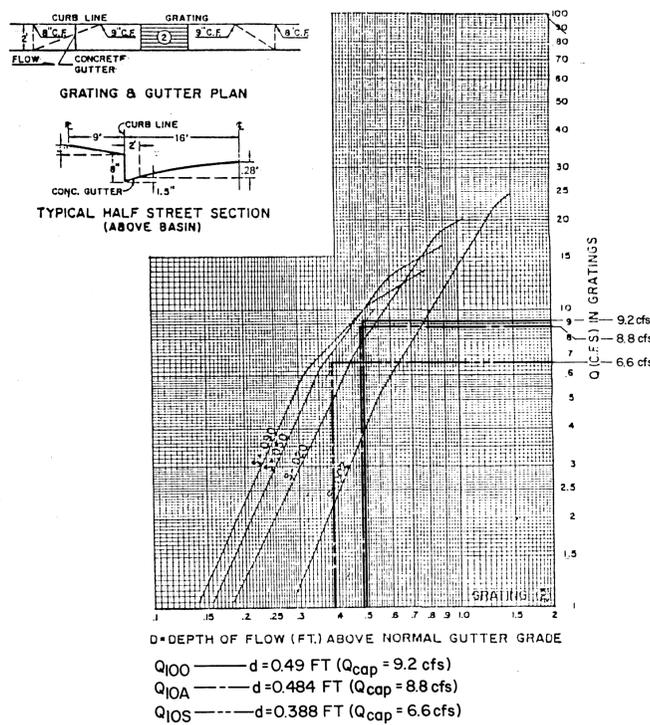
WYOMING BLVD.-DOUBLE 'C' AFTER Q CHURCH

GRATING CAPACITIES FOR TYPE DOUBLE 'C,' AND 'D'



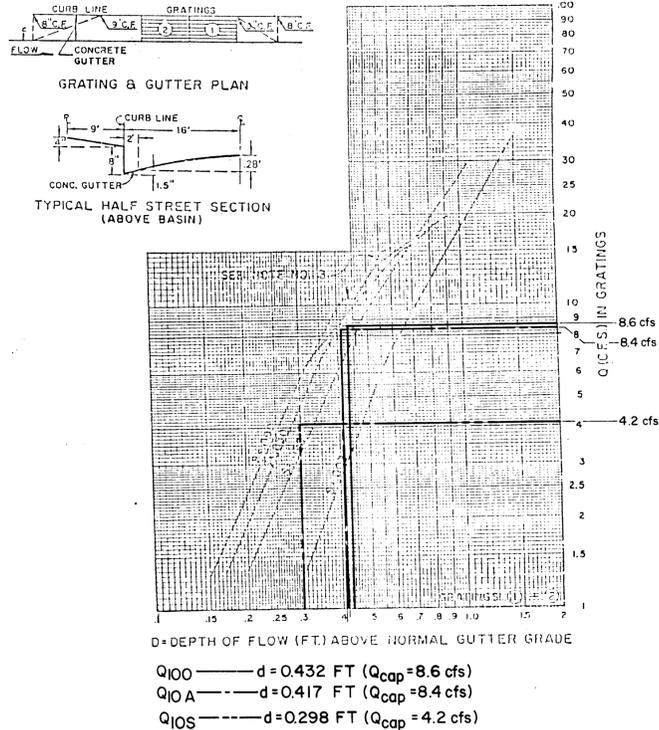
WILSHIRE AVE. - SINGLE 'A'

GRATING CAPACITIES FOR TYPE 'A', 'C' AND 'D'



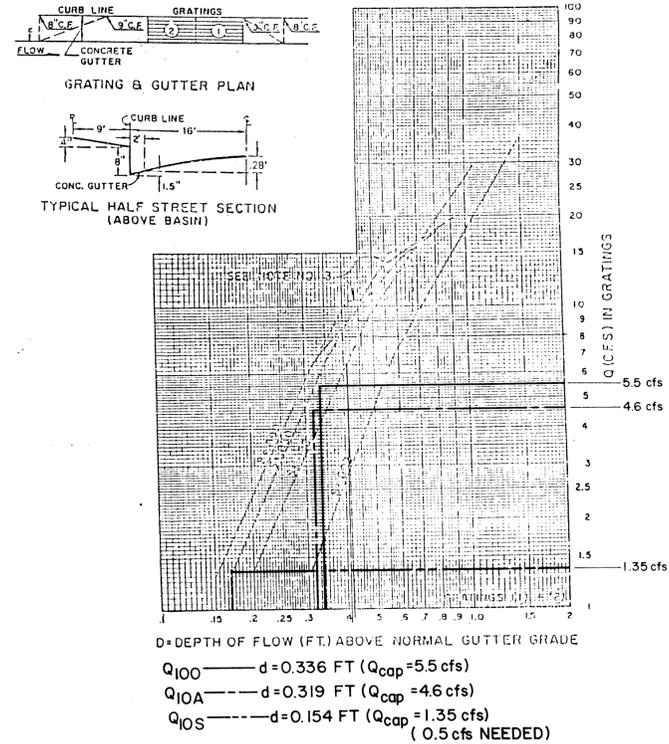
WILSHIRE AVE. - FIRST DOUBLE 'C'

GRATING CAPACITIES FOR TYPE DOUBLE 'C,' AND 'D'



WILSHIRE AVE. - SECOND DOUBLE 'C'

GRATING CAPACITIES FOR TYPE DOUBLE 'C,' AND 'D'



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	A STANDARD A.C.S. BRASS TABLET STAMPED	NO.	FIELD BY	NO.	M.F.D.	REMARKS
WORK STAMPED BY	DATE	"1-C19 M.A.A. LOT 32, BLK. 10 SET IN TOP OF A	BY	NO.	BY	BY	REVISIONS
FIELD ACCEPTANCE BY	DATE	CONC. POST FLUSH W/ THE GROUND, LOCATED	NO.	NO.	DESIGNED BY	DATE	DESIGN
DRAWINGS BY	DATE	@ THE INTERSECTION OF LOUISIANA BLVD. NE &	NO.	NO.	DRAWN BY	DATE	C.E.N.
CHECKED BY	DATE	PASE DEL NORTE, IN THE N.E. QUADRANT,	NO.	NO.	CHECKED BY	DATE	J.G.M.
RECORDED BY	DATE	50' NORTH OF THE N.W. CORNER OF A	NO.	NO.	NO.	NO.	NO.
MICRO-FILM INFORMATION	DATE	CHAINLINK FENCE AROUND THE F.A.A. AIR	NO.	NO.	NO.	NO.	NO.
NO.	NO.	TRAFFIC CONTROL CENTER	NO.	NO.	NO.	NO.	NO.
		ELEVATION: 5318.175 FT. (M.S.L.D.)	NO.	NO.	NO.	NO.	NO.



CITY OF ALBUQUERQUE
 PUBLIC WORKS DEPARTMENT
 ENGINEERING GROUP

TITLE: COVENANT UNITED METHODIST CHURCH
 PAVING & STORM DRAINAGE IMPROVEMENTS
 GRATING CAPACITIES

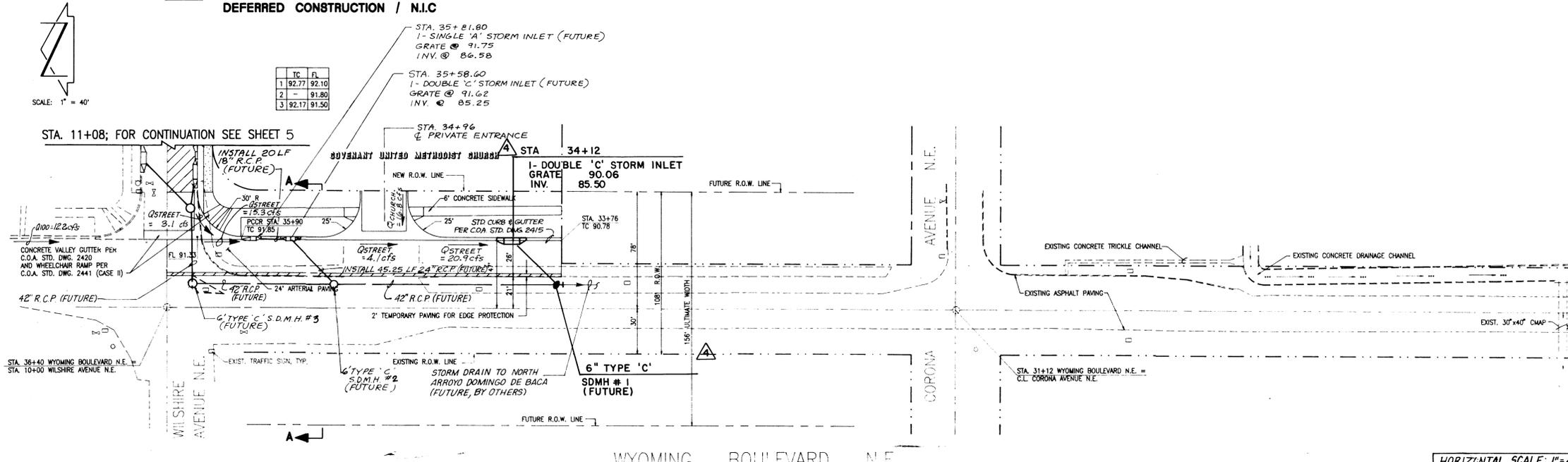
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE

PROJECT NO.	MAP NO.	SHEET	OF
2-994	C-19	3	6

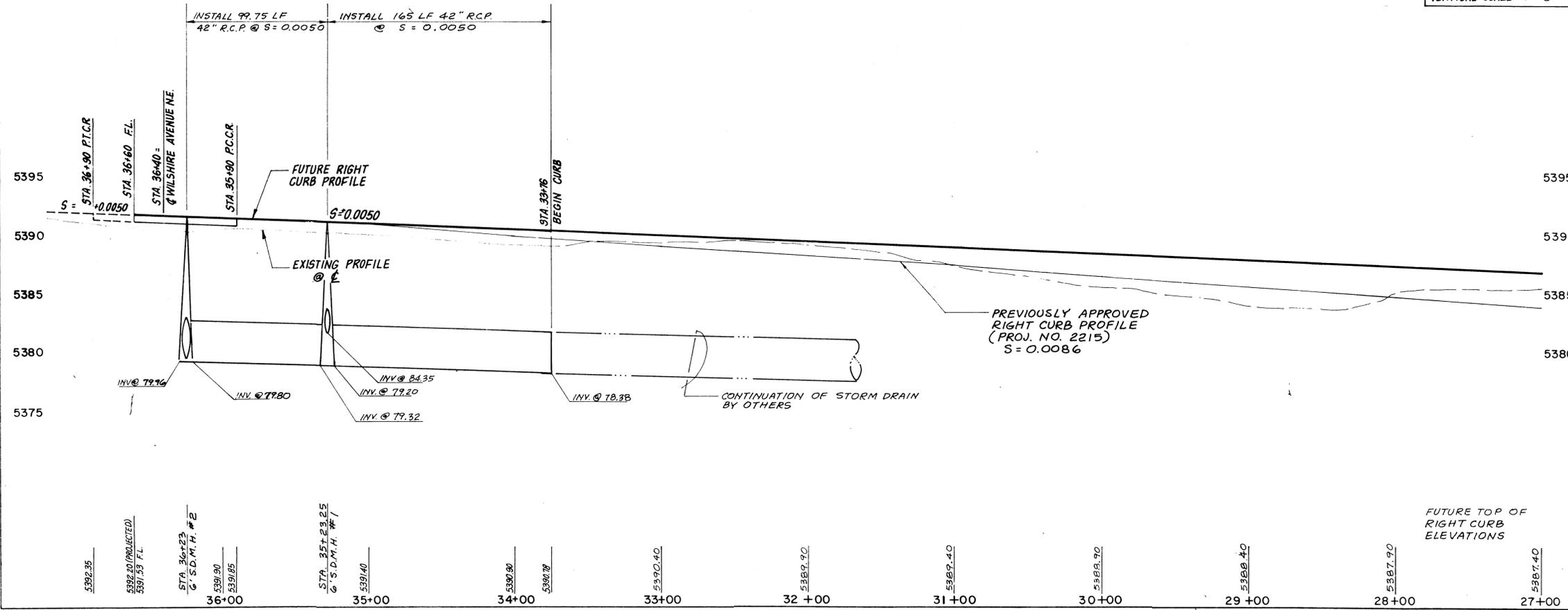
DESIGN ANALYSIS

The street grades presented hereon have been established at the minimum allowable street grade set forth in the Development Process Manual. The minimum slope of 0.0050 has been maintained. The previously approved street grade for this portion of Wyoming Boulevard N.E. is 0.0086 which would place the street profile lower than that which is proposed at this time. The gradient of 0.0050 has been selected due to the fact that it is a minimum slope and that it provides of the highest possible street grade at the crossing of the North Arroyo de Domingo Baca, this will provide more flexibility in discharging into that Arroyo once a crossing is designed at a future date. The storm drain shown hereon has been established at the same minimum street grade of 0.0050. The design assumption here is that the storm drain shall parallel the street. The design is based upon keeping the storm drain as shallow as possible so as to allow for future discharge into the Arroyo.

NOTE: THIS PLAN FOR INFORMATION ONLY
DEFERRED CONSTRUCTION / N.I.C



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 5'



AS BUILT INFORMATION	
DATE	NO.
BENCH MARKS	
A STANDARD A.C.S. BRASS TABLET STAMPED	
"1-C19 N.A. LOT 32, BLK. 10" SET IN TOP OF A	
CONC. POST FLUSH WITH THE GROUND, LOCATED	
@ THE INTERSECTION OF LOUISIANA BLVD NE &	
LOS ANGELES DRIVE NE IN THE NORTHEAST	
QUADRANT, 50' NORTH OF THE NORTHEAST	
CORNER OF A CHAINLINK FENCE AROUND THE FAA	
AIR TRAFFIC CONTROL CENTER	
ELEVATION: 5318.195 FEET (M.S.L.D.)	
SURVEY INFORMATION	
FIELD NOTES	BY
NO.	DATE
ENGINEER'S SEAL	
NO.	DATE
REVISIONS	BY
DESIGN	J.G.M.
DATE	06/93
DRAWN BY	S.G.H./T.P.H.
DATE	06/93
CHECKED BY	J.G.M.
DATE	07/93

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: COVENANT UNITED METHODIST CHURCH
PAVING & STORM DRAINAGE IMPROVEMENTS
WYOMING BLVD. N.E. ~ STA. 31+12 TO STA. 36+40

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					

PROJECT NO. 920412 MAP NO. C-19 SHEET 4 OF 6

