DEVELOPMENT & BUILDING SERVICE CENTER ONE STOP SHOP

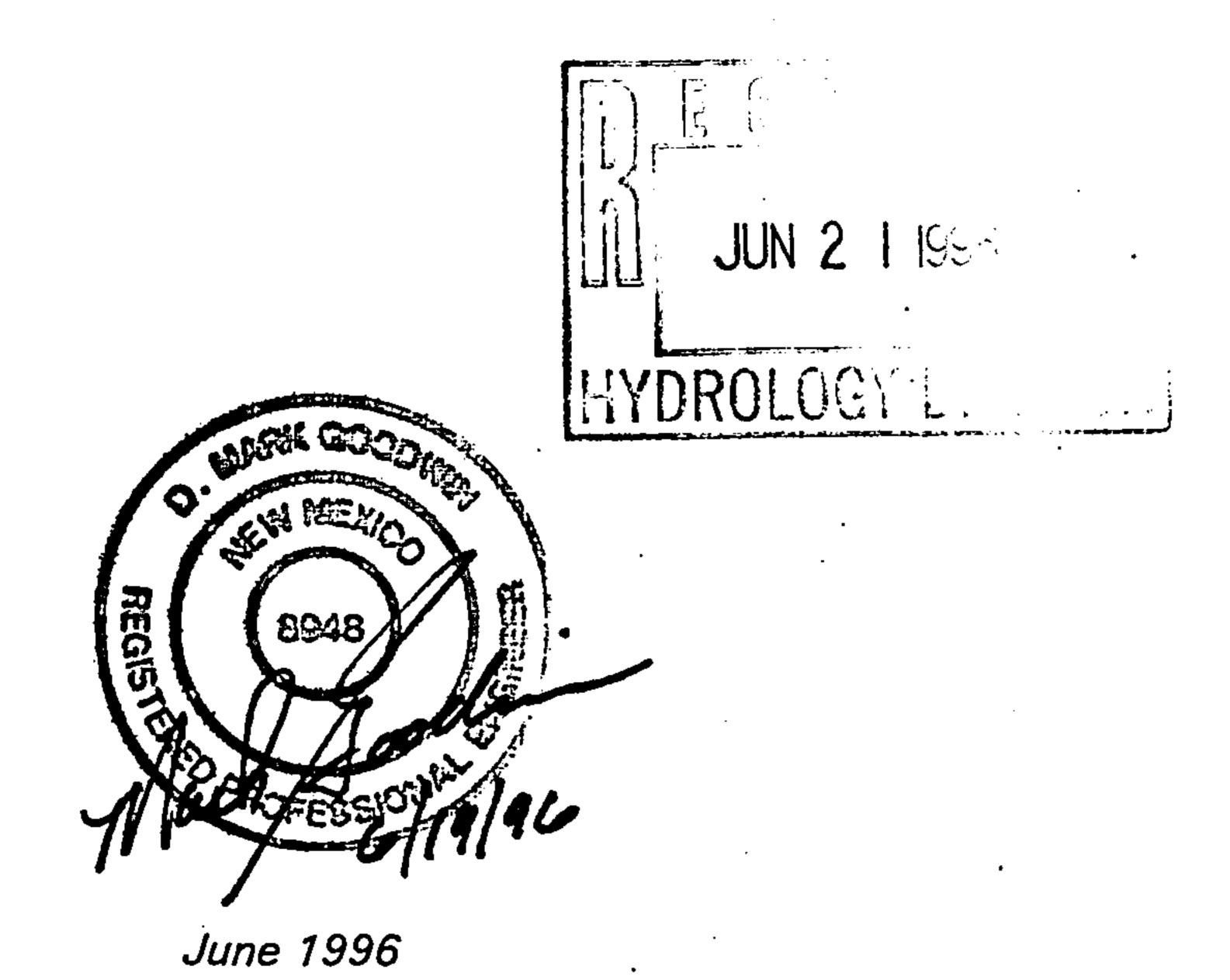
600 SECOND ST. N.W.

ATTENTION: Mesa Reprographics
505-924-3900

Records Withdrawal For	m		•	
Project No. 1+-17/7	<u>584</u>	. Date:	16-6	
Project Title:	Lerwood Comm	10115		
a. File d. Other	b. Mylars	c. Redlines	s/Comments	
Requested by: Marco		Company	Phone No.:	858-3106
Comments:	rainage Report Report for Me	that is bin	1	
Anticipated Return Date: I hereby accept full responsive receipt acknowledgement is Building Services Center of the services o	sibility for the secur	rds/plans will be r	eturned to the I	ans until return Development and
Delivery Picked Up By:				٠. •.
Name: Print		Organizati	ion:	
Signed: m mark	- i	Date:	MAY 16	66
	Office	e Use Only		
Return Acknowledged				
Received By:	how mus Print	Dat	e: <u>5//</u>	7/06

262-2046

DRAINAGE REPORT for NETHERWOOD COMMONS



EXISTING CONDITIONS

This site comprises an area of 5.6487 acres of undeveloped property on the north side of Indian School Road west of San Mateo approximately 500 feet. It is bounded on the north by I-40, on the east by a Church of Christ and on the west by a YMCA. No off-site flows from the north, east or west enter the site.

Significant_off-site, public runoff enters the property from Indian School Road on the south. These flows are generated from primarily established, residential areas south of Indian School comprising an area of 24.5 acres. Per the attached calculations, the peak discharge from this area will be 95 cfs. These flows currently enter the site through a depressed curb opening and run overland to a 42 RCP culvert at the northwest end then into the Coronado Channel in I-40. There appears to be no easements for this condition at this time.

The site does not lie within a 100 Year Flood Zone.

PROPOSED PLAN

As the attached Grading and Drainage Plan indicates, we propose to collect the 95 cfs off-site flows in curb inlets at Indian School Road and convey these flows via an underground 36 inch storm drain to the existing 42 inch culvert at I-40. This construction would be accomplished with a Work Order prior to obtaining the Certificate of Occupancy. The two storm drains would be connected by way of a combination junction box/drop inlet constructed at the end of the existing 42 inch culvert. The inlet portion would collect the roadside drainage discharging at that point. We would gain NMSH&TD approval as part of the Work Order process.

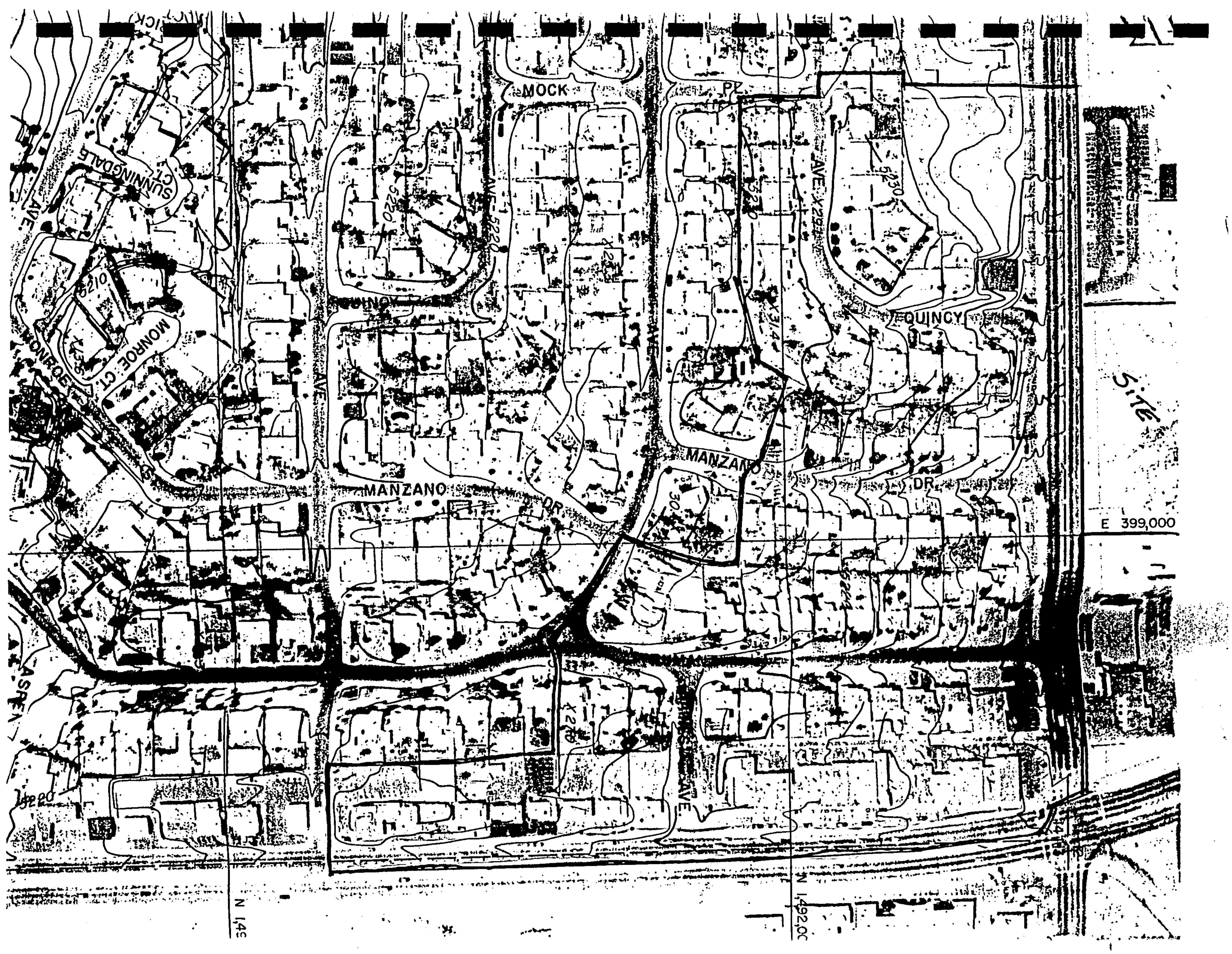
The on-site generated runoff is anticipated to be 24 cfs. These flows will be routed through the parking areas to the north end of the project where they will be discharged via 3 curb inlets to the new 36 inch storm drain.

As shown by this plan, both on-site and off-site runoff will be adequately handled.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT UTILITY DEVELOPMENT DIVISION/HYDROLOGY SECTION

PRE-DESIGN CONFERENCE

DRAINAGE FILE/ZONE ATLAS PAGE NO.: H17 DATE: 6-14-96
EPC NO.: DRB NO.: ZONE: ZONE: ZONE: ZONE:
SUBJECT: Netherwood commons
STREET ADDRESS:
LEGAL DESCRIPTION: TRACT F2 Notherwood Pand Addr.
APPROVAL REQUESTED: PRELIMINARY PLAT FINAL PLAT
SITE DEVELOPMENT PLAN X BUILDING PERMIT
GRADING/PAVING PERMIT OTHER
LIVA
TEPRESENTING ATTENDANCE: MARK つoodwin
ATTENDANCE: NARK (700 (YW) ~
$\frac{1}{1}$
FINDINGS: · An Approved Droin age Report is REQUIRED FOR BUILDING
PERMIT SIGN-OFF. PIPEROUSE OF THE BUILDING DEANIT
will require the interception or the ork-site klows
VIN A STORM DRSIN (PUBLIC) TO the Existing out KALL
with Highway Dept's Approval, A public EASEMENT IS REQUIRED FUR The proposed Storm DRIL
- APPROVAL OF THE C.O WILL REGULARY The
Constantion and Acceptance or the stonm
Drus)~
Englacer's scatirication is required for CO.
roppour!
$\frac{1}{2}$
. Check with Francis rue site prome requirement
The undersigned agrees that the above findings are summarized accurately and are only
subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.
SIGNED: Just Very SIGNED: Mark Justin
TITLE:
DATE: 6-14-91 DATE: 6/14/94
NOTE PLEASE PROVIDE A COPY OF THIS PRE-DESIGN FORM WITH THE DRAINAGE SUBMITTAL.



PISTO.DAT

START

TIME=0.0

***** HYDROGRAPH FOR PISTO OFFICE PARK BETWEEN INDIAN SCHOOL

***** AND I-40, 700' WEST OF SAN MATEO. THE ON-SITE AND OFFSITE

***** PROPOSED IMPROVEMENTS CONTRIBUTING TO THE CORONADO CHANNEL

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=2.01 IN RAIN SIX=2.35 IN

RAIN DAY=2.75 IN DT=0.03333 HR

*HYDROGRAPH FOR OFF-SITE BASIN

COMPUTE NM HYD

ID=1 HYD NO=101.1 AREA=0.0383092 SQ MI

PER A=0.00 PER B=30.00 PER C=5.00 PER D=65.00

TP=0.1333 HR MASS RAINFALL=-1

PRINT HYD

ID=1 CODE=1

*HYDROGRAPH FOR ON-SITE BASIN

COMPUTE NM HYD

ID=2 HYD NO=101.2 AREA=0.00875 SQ MI

PER A=0.00 PER B=15.00 PER C=5.00 PER D=80.00

TP=0.1333 HR MASS RAINFALL=-1

PRINT HYD

ID=2 CODE=1

FINISH

START

TIME=0.0

***** HYDROGRAPH FOR PISTO OFFICE PARK BETWEEN INDIAN SCHOOL

***** AND I-40, 700' WEST OF SAN MATEO. THE ON-SITE AND OFFSITE

***** PROPOSED IMPROVEMENTS CONTRIBUTING TO THE CORONADO CHANNEL

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=2.01 IN RAIN SIX=2.35 IN

RAIN DAY=2.75 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT	=	.033330 H	OURS	END T	IME =	5.9994	00 HOURS
	.0000	.0016	.0033	.0049	.0066	.0084	.0102
	.0120	.0139	.0158	.0178	.0199	.0219	.0241
	.0263	.0286	.0309	.0333	.0358	.0384	.0411
	.0439	.0467	.0497	.0529	.0561	.0596	.0631
	.0669	.0709	.0751	.0807	.0866	.0930	.1066
	.1371	.1840	.2514	.3434	.4644	.6186	.8106
-	1.0449	1.2624	1.3533	1.4300	1.4982	1.5602	1.6174

```
1.7200 1.7664 1.8102 1.8514 1.8904 1.9273
1.6704
1.9622 1.9953 2.0268 2.0566
                            2.0850
                                   2.0915
2.1033 2.1088 2.1140 2.1191 2.1239 2.1285
       2.1414 2.1454
2.1373
                    2.1494 2.1531
                                   2.1568
2.1639
       2.1673 2.1706
                     2.1739 2.1771
                                   2.1802
2.1862 2.1891 2.1919 2.1947
                            2.1975 2.2002
                                           2.2028
       2.2080
              2.2105
                     2.2130
2.2054
                            2.2154 2.2178
              2.2270 2.2293 2.2315 2.2336
2.2225
       2.2248
                                          2.2358
       2.2399 2.2420 2.2440 2.2460 2.2480 2.2500
2.2379
       2.2538 2.2557 2.2576 2.2594 2.2612 2.2631
2.2519
2.2648 2.2666 2.2684 2.2701 2.2718 2.2735 2.2752
       2.2785 2.2802 2.2818 2.2834 2.2850
2.2769
      2.2897 2.2912 2.2928 2.2943 2.2958 2.2973
2.2881
2.2987 2.3002 2.3017 2.3031 2.3045 2.3060 2.3074
2.3088 2.3102 2.3115 2.3129 2.3143 2.3156 2.3169
2.3183 2.3196 2.3209 2.3222 2.3235 2.3248 2.3261
2.3273 2.3286 2.3298 2.3311 2.3323 2.3335
2.3360 2.3372 2.3384 2.3396 2.3408 2.3419 2.3431
2.3443 2.3454 2.3466 2.3477 2.3488 2.3500
```

*HYDROGRAPH FOR OFF-SITE BASIN

PER A=0.00 PER B=30.00 PER C=5.00 PER D=65.00

TP=0.1333 HR MASS RAINFALL=-1

.072649HR TP =.133300HR K/TP RATIO =.545000 SHA PE CONSTANT, N = 7.106420UNIT PEAK = 98.310**CFS** UNIT VOLUME = .9993526. 28 P60 = 2.0100.024901 SQ MI IA = .10000 INCHESAREA =INF =.04000 INCHES PER HOUR RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - D .033330 T =

K = .128567HR TP = .133300HR K/TP RATIO = .964497 SHA PE CONSTANT, N = 3.662865

UNIT PEAK = 33.398 CFS UNIT VOLUME = .9998 B = 332.

03 P60 = 2.0100

AREA = .013408 SQ MI IA = .47857 INCHES INF = 1.19000

INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - D T = .033330

PRINT HYD

ID=1 CODE=1

PARTIAL HYDROGRAPH 101.10

RUNOFF VOLUME = 1.66241 INCHES = 3.3965 ACRE-FEET

PEAK DISCHARGE RATE = 95.47 CFS AT 1.500 HOURS BASIN AREA = .0383 SQ. MI.

*HYDROGRAPH FOR ON-SITE BASIN

COMPUTE NM HYD ID=2 HYD NO=101.2 AREA=0.00875 SQ MI

PER A=0.00 PER B=15.00 PER C=5.00 PER D=80.00

TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHA PE CONSTANT, N = 7.106420

UNIT PEAK = 27.636 CFS UNIT VOLUME = .9990 B = 526.

P60 = 2.0100

AREA = .007000 SQ MI IA = .10000 INCHES INF = .04000

INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - D T = .033330

K = .125927HR TP = .133300HR K/TP RATIO = .944690 SHA PE CONSTANT, N = 3.742298

UNIT PEAK = 4.4322 CFS UNIT VOLUME = .9972 B = 337.

P60 = 2.0100

AREA = .001750 SQ MI IA = .46250 INCHES INF = 1.14500

INCHES PER HOUR

RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - D T = .033330

PRINT HYD ID=2 CODE=1

PARTIAL HYDROGRAPH 101.20

RUNOFF VOLUME = 1.86327 INCHES = .8695 ACRE-FEET

PEAK DISCHARGE RATE = 23.86 CFS AT 1.500 HOURS BASIN AREA = .0088 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 09:09:12

111 112 0 1 00 33 W W

•

D. Mark Goodwin & Associates, P.A.
D. Mark Goodwin & Associates, P.A. Consulting Engineers and Surveyors

PROJECT //	herward
SUBJECT_22	
BY	DATE 4/21/96
CHECKED	DATE
· •	SHEETOF

We need to determine preliminary storm drain size for 95 cfs off-site. Assume open channel flow for now & them refine once detailed layout is performed. Average slope in parking lot is 5%.

Per affected Nomograph, 36" SD will work with a V= 18 fps ±

Now we need to determine # of milets:

On-site 24 Cfs will be collected in a sump 0.5' deep so inlets will operate as weirs:

 $Q = C L H^{3/2} \qquad C = 2.9$ H = 0.35

 $C = 24 \qquad \left[23 + 2' + 2' = 7' \right]$ C = 3 + 1'' + 2 - 6' + 2 - 6'' = 8.91' 0 = 2 + 6.4 + 2 = 10.4 Naced = 3 - 5ing/e''c'' on - 5ite

OFF-SITE 95 chs will be in a sump 1.0' deep

H^{3/2}= 1

L = 33'

C for single "A" = 6.42 + 2 + 2 = 10.42'

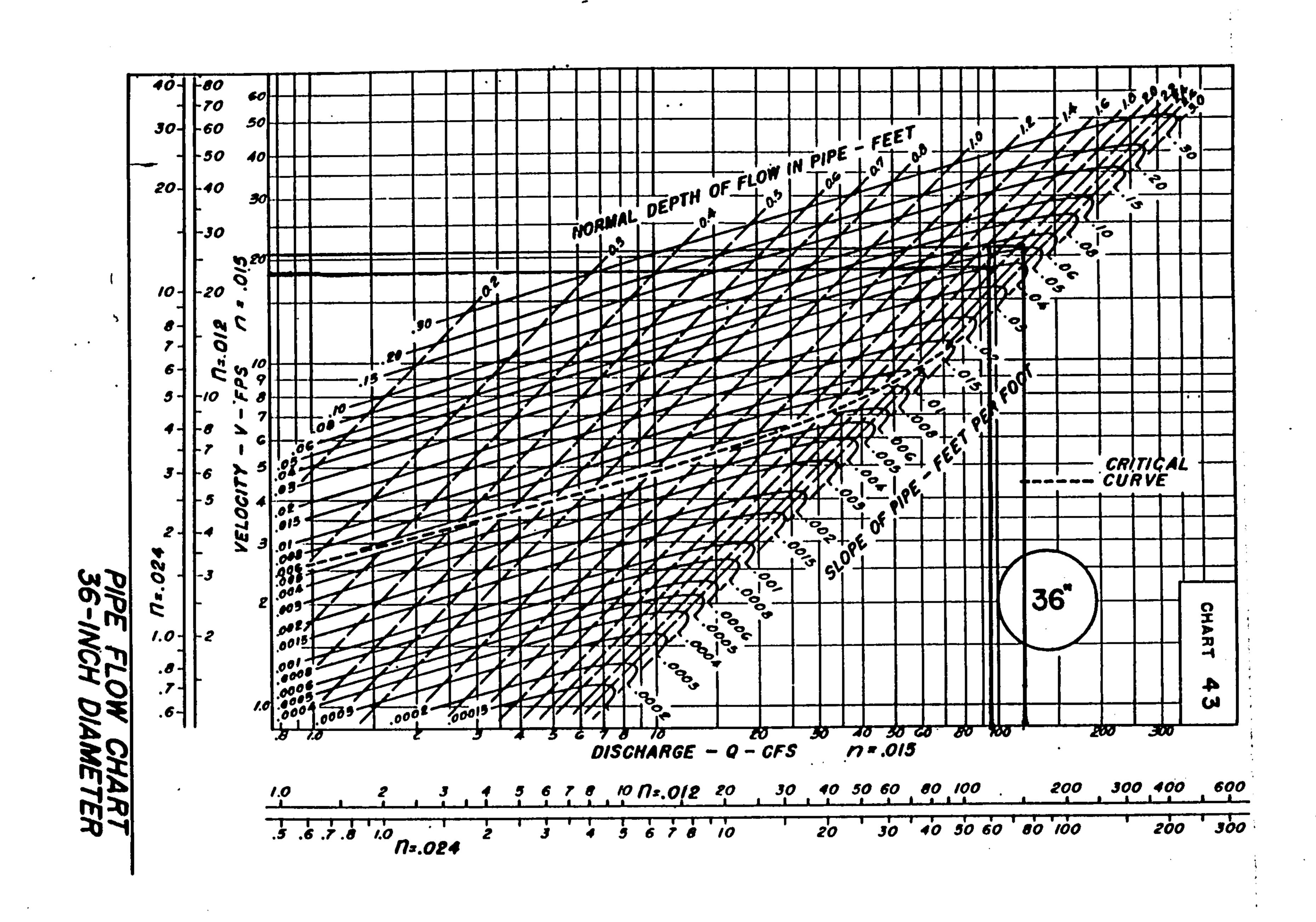
Need 4 - Type "A" @ Indian School

Double "A" W/ Wings Both Sides

 $L_{3.5+2+6.4+2+3.5=17.4'}$ 3.5+1+6.4+1+3.5=15.4'

 $\frac{(\xi g') b' h g h' \xi l(f g') 2 g'}{f g' l g' h g h' \xi l(f g') 2 g'} + \frac{(\xi l) h' h g h' \xi l(f g') 2 g'}{f g' l g'} + \frac{(\xi l) h' h g h' \xi l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l(f g') 2 g'}{f g' l g'} = \frac{(\xi l) h' h g h' k g l($

107 SULY VE/ W/ 7 21000



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HYDRAULIC REPORT FOR

NETHERWOOD COMMONS

PUBLIC STORM DRAIN

My Selection

Run date: 07-08-1996

File:

Return Period = 100 Yrs Rainfall file: Your_County,

1 / Outfall depth in 42" RCP (85% Full) HGL DEPTH INVERT VEL EGL T WID COVER ARE	·
	·
	\ 2 22
DNSTRM 185.39 35.48 182.43 16.88 189.81 8.61 1.84 7.0) <u> </u>
UPSTRM 186.33 36.00 183.03 16.84 190.73 0.00 1.24 7.0)7
Drainage area (ac) = 0 Slope of invert (%) = 1.99 Runoff coefficient = 0 Slope energy grade line (%) = 3.03 Time of conc (min) = 4 Critical depth (in) = 35.4 Inlet time (min) = 0 Req'd length curb inlet (ft) = 7. Intensity (in/hr) = 0.00 Req'd grate area (sf) = 12. Cumulative C*A = 0.0 Depth at inlet opening (in) = 36 Flow contrib (cfs) = 119 Confluence angle (deg) = 0 Default Q (cfs) = 119 Natural ground elev (ft) = 187. Line capac. (cfs) = 94.2 Line storage (cuft) = 212	37 48 48 27

2 / DNLN	1				• ,		
	HGL	DEPTH INVERT	VEL	EGL	TWID	COVER	AREA
DNSTRM	187.43	36.00 183.08	13.44	190.23	0.00	1.19	7.07
UPSTRM	189.44	36.00 <u>185.0</u> 7	13.44	192.25	0.00	2.27	7.07
Runoff c Time of Inlet ti Intensit Cumulati Flow con Default	trib (cfs Q (cfs)	t = 0 1) = 4 = 0 = 0.00 = 0.00	Slope Critic Req'd Req'd Depth Conflo	of inverse energy calcepth allowed and and and and and and and and allowed at storage (rade lin (in) (urb inle (ea (sf) (le (deg) le (deg)	et (ft)	= 10.2

Q = 95.0 / HT = 36 / WID = 36 / N = .013 / L = 91.57 / JLC = .25DNLN = 2VEL HGL INVERT EGL DEPTH O.OO 36.00 192.95 7.07 190.15 DNSTRM 13.44 194.81 36.00 188.00 0.007.07 192.01 10.75 Drainage area (ac) = 0 Slope of invert (%) = 3.145Slope energy grade line (%) = 2.029Runoff coefficient = 0 Time of conc (min) = 3= 34.96Critical depth (in) Req'd length curb inlet (ft) = 5.9 Inlet time (min) = 0Intensity (in/hr) = 0.00= 10.2Req'd grate area (sf) Cumulative C*A = 0.0Depth at inlet opening (in) = 36 Flow contrib (cfs) = 95Confluence angle (deg) = 15 Natural ground elev (ft) = 201.75Default Q (cfs) = 95

Line storage (cuft)

= 647

Line capac. (cfs) = 118.3

LINE 4 / Q = 95.0 / HT = 36 / WID = 36 / N = .013 / L = 300.68 / JLC = .25 DNLN = 3EGL AREA HGL INVERT VEL T WID COVER DEPTH 7.07 195.51 10.69 13.44 0.00 192.71 188.05 DNSTRM 36.00 10.35 13.44 201.61 UPSTRM 36.00 194.54 7.07 198.81 0.00 = 2.158Drainage area (ac) = 0Slope of invert (%) Slope energy grade line (%) = 2.029Runoff coefficient = 0 = 34.96Critical depth (in) Time of conc (min) = Req'd length curb inlet (ft) = 5.9 Inlet time (min) = Q = 10.2Req'd grate area (sf) 0.00 Intensity (in/hr) = 36 Depth at inlet opening (in) 0.0 Cumulative C*A = O Confluence angle (deg) Flow contrib (cfs) = 95 $(ft)^2 = 207.89$ Natural ground elev = 95 Default Q (cfs) = 2125Line storage (cuft) 98.O Line capac. (cfs)

HT = 36 / WID = 36 / N = .013 / L = 75.08 / JLC = .25DNLN = 4EGL AREA VEL HGL DEPTH INVERT T WID 13.44 202.32 O_*OO 10.3 7.07 36.00 199.51 7.07 13.44 203.84 0.00 201.04 36.00 196.09 = 1.998 Slope of invert (%) Drainage area (ac) = 0Slope energy grade line (%) = 2.029Runoff coefficient = 0 Time of conc (min) = 1 = 34.96Critical depth (in) Req'd length curb inlet (ft) = 5.9 Inlet time (min) = 0= 10.2Req'd grate area (sf) Intensity (in/hr) = 0.00Depth at inlet opening (in) = 36 Cumulative C*A = 0.0 = 52 Confluence angle (deg) Flow contrib (cfs) = 95 Natural ground elev (ft) = 209.8 Default Q (cfs) = 95 Line capac. (cfs) = 94.3= 531 Line storage (cuft)

LINE 6 / Q = 95.0 / HT = 36 / WID = 36 / N = .013 / L = 188.06 / JLC = .25 6 / DNLN = 5

		:						
	HGL	DEPTH	INVERT	VEL	EGL	TWID	COVER	AREA
DNSTRM	201.74	36.00	196.14	13.44	204.54	0.00	10.66	7.07
UPSTRM	205.55	36.00	200.00	13.44	208.36	0.00	3.85	7.07
-	e area (ac cefficien			•	of inve	rt (%) grade lin	e (%)	
	conc (min .me (min)				•	h (in) curb inle		
Intensit	y (in/hr)	****	0.00	Req'd	grate a	rea (sf)		= 10.2
Cumulati	ve C*A	****	O.O	Depth	at inle	t opening	(in)	= 36
Flow con	itrib (cfs	;) = 9!	5	Confl	uence an	gle (deg)		= 90
Default	Q (cfs)	· = '9	5	Natur	al groun	d elev	(ft)	= 206.85
Line cap	ac. (cfs)	= 9	5.6		storage			= 1329

DNLN = 6DEPTH HGL INVERT VEL EGL T WID 206.26 24.00 200.00 15.12 0.00 209.81 4.85 24.00 207.78 201.00 15.12 0.00 Drainage area (ac) = 0 Slope of invert (%) = 2.904Runoff coefficient = 0 Slope energy grade line (%) = 4.411 Time of conc (min) = 0 Critical depth (in) = 23.78Inlet time (min) = 0 Req'd length curb inlet (ft) = 1.9 = 4.4 Intensity (in/hr) = 0.00 Req'd grate area (sf) Cumulative C*A = 0.0Depth at inlet opening (in) = 48 Flow contrib (cfs) = 47.5Confluence angle (deg) **=** 0

Natural ground elev (ft)

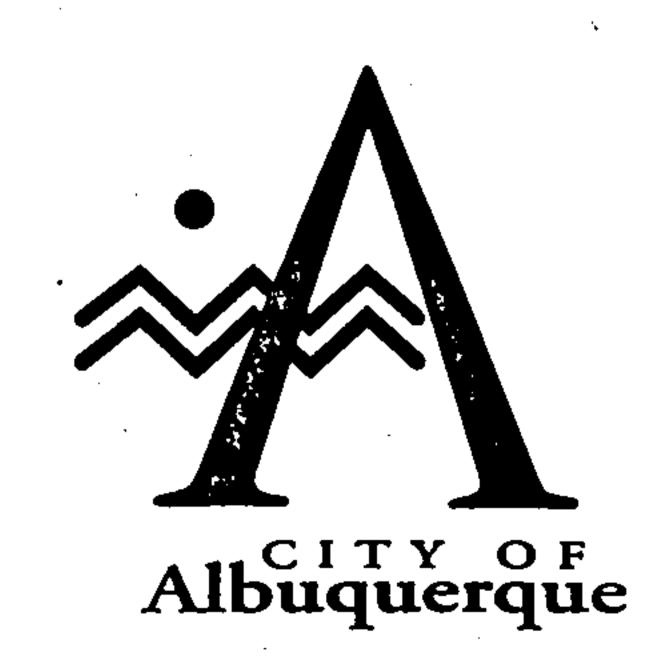
Line storage (cuft)

= 206

= 108

Default Q (cfs) = 47.5

Line capac. (cfs) = 38.5



P.O. Box 1293 Albuquerque, NM 87103

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August 6, 1996

Martin J. Chávez, Mayor

Mark Goodwin, PE Mark Goodwin & Assoc. P.O. Box 90606 Albuquerque, NM 87199

RE:

GRADING & DRAINAGE PLAN FOR NETHERWOOD COMMONS (H-17/D84) RECEIVED JULY 22, 1996 FOR BUILDING PERMIT

ENGINEER'S STAMP DATED 7/19/96

Dear Mr. Goodwin:

Based on the information included in the submittal referenced above, City Hydrology accepts the grading & drainage plan for Building Permit.

Include a copy of the grading & drainage plan, dated 7/19/96, in the set of construction documents that will be submitted to Code Administration for the Building Permit.

Engineer's Certification of grading & drainage per DPM checklist must be accepted by City Hydrology before any Certificate of Occupancy will be released.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

John P. Curtin, P.E.

Civil Engineer, Hydrology

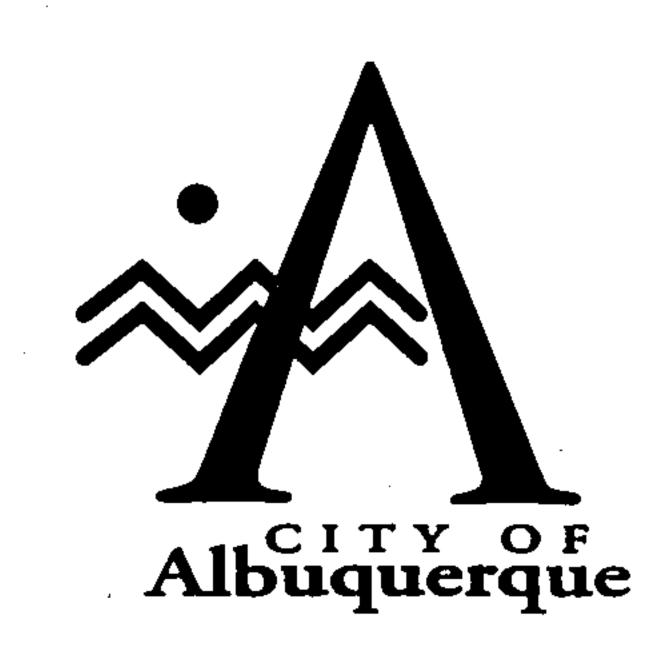
c: Andrew Garcia

Fred Aguirre

Tony Pisto, 1620 Central SE 87106

Good for You, Albuquerque!





P.O. Box 1293 Albuquerque, NM 87103

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July 15, 1996

Martin J. Chávez, Mayor

Mark Goodwin, PE Mark Goodwin & Assoc. P.O. Box 90606 Albuquerque, NM 87199

RE:

DRAINAGE REPORT FOR NETHERWOOD COMMONS (H-17/D84)

RECEIVED JUNE 21, 1996 FOR BUILDING PERMIT

ENGINEER'S STAMP DATED 6/19/96

Dear Mr. Goodwin:

Based on the information included in the submittal referenced above, City Hydrology has the following comments that must be addressed:

For Building Permit: Include an erosion control plan and the concrete swale detail on the Grading & Drainage Plan. A "topsoil disturbance permit" must be obtained prior to construction.

Submit final design calculations for the storm drain. Indian For Work Order: School is a minor arterial. Check 10 year criteria. Consider using Type "A" inlets with double grates & wings on both sides at sump or sag conditions. Storm drain will require a drainage easement. Obtain a permit from NMSHTD for work in their right of way.

If you have any questions about this project, You may contact me at 768-2727.

Sincerely,

Civil Engineer, Hydrology

Andrew Garcia Fred Aguirre

Tony Pisto, 1620 Central SE 87106

Good for You. Albuquerque!





Martin J. Chávez, Mayor

Robert E. Gurulé, Director

May 1,1997

Mark Goodwin PE Mark Goodwin & Associates PA P.O. Box 90606 Albuquerque, New Mexico 87199

RE: ENGINEER CERTIFICATION FOR NETHERWOOD COMMONS (H17-D84) CERTIFICATION STATEMENT DATED 4/23/97

Dear Mr. Goodwin:

Based on the information provided on your April 24,1997 submittal, Engineer Certification for the above referenced site is not acceptable for the following reasons:

- 1. Pad elevations must be shown to full mean sea level designation.
- 2. Concurrence from the Highway Department for work done within their R/W.
- 3. Copy of the letter of acceptance for the work order items.
- 4. More as-built spot elevation within the parking areas.

If I can be of further assistance, please feel free to contact me at 924-3986.

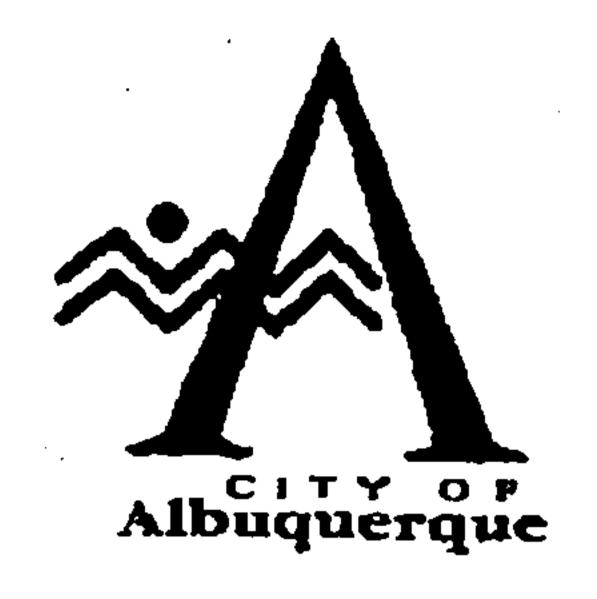
C: Andrew Garcia File>

Sincerely

Some Montager
Bernie J. Montoya CE

Associate Engineer





City of Albuquerque

P. O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103 PUBLIC WORKS DEPARTMENT

September 9, 1997

CERTIFICATE OF WORK ORDER COMPLETION

Sadler Southwest P.O. Box 21640 Albuquerque, NM 87154

Re: Netherwood Park Addition Unit 1 PROJECT NO. 5612.81 (MAP NO. H-17)

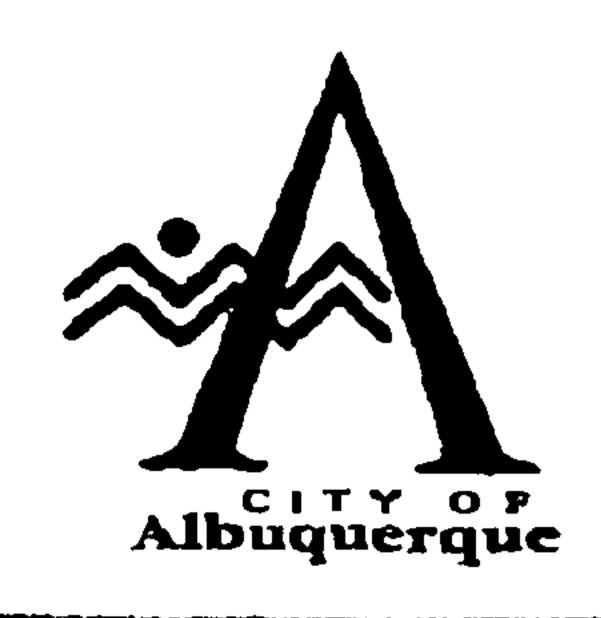
Dear Sir:

This is to certify that the City of Albuquerque accepts Project No. 5612.81 as being completed according to approved plans and construction specifications. Please be advised this certificate of completion shall only become effective upon final plat approval and filing in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

Project consisted of widening of street from twenty four feet to forty feet. Curb and gutter was constructed at south side of roadway. One type "A" drop inlet constructed at west end of project (Sta 1+43.26) along with 18" RCP storm drain tied into new type "E" 4' Dia manhole. Storm drain manhole is jointed to existing RCP stub out. Concrete box culvert allowing drainage into north diversion channel. Adjustment of two sanitary sewer manholes, stations 3+15.26 and station 4+98.29 relocation of one fire hydrant station 4+47.15 to station 4+32. Curb and gutter, 4' sidewalk and driveways of 9 foot width at south side of Cutler Avenue.

The contractor's correction period began the date of this letter and is effective for a period of one (1) year.



City of Albuquerque

P. O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103
PUBLIC WORKS DEPARTMENT

July 7, 1997

CERTIFICATE OF WORK ORDER COMPLETION

Anthony Pisto 1620 Central SE Albuquerque, NM 87106

RE: NETHERWOOD COMMONS, UNIT/PHASE 1- PROJECT NO. 551381

(MAP NO. H-17)

Dear Sir:

This is to certify that the City of Albuquerque accepts Project No. 551381 as being completed according to approved plans and construction specifications. Please be advised this certificate of completion shall only become effective upon final plat approval and filling in the office of the Bernalillo County Clerk's Office.

The project is described as follows:

- Sidewalk, curb and gutter, asphalt removal and replacement occurred on the north side of Indian School Road, a the project address, 5001 Indian School.
- Chainlink fence removal and reinstallation occurred at Interstate 40, where the storm new storm sewer was connected to the existing.
- 18" RCP was used to connect the catch basins at he north end of the property into the larger 36" storm drain system
- 24" RCP was used to connect the catch basins at the north end of the property into the larger 36" storm drain system.
- 36" RCP was used between the 4-double A catch basins along the north side of Indian School Road.
- -' 4-Double A catch basins were placed along the north side of Indian School Road. The other 2-Double A basins were placed along the north side of the owner's property line, at the northwest corner of the parking lot.

Netherwood Commons Phase/Unit 1 Project No. 551381 July 7, 1997 Page 2

- 1-Double C catch basin was placed alon the north side of the owner's property line, at he northwest corner of the parking lot.
- 1-Double D catch basin was placed where the new storm drainage system (Work Order 551381) tied into the existing storm drainage system located between the owner's property and Interstate 40.
- Manholes were located along the 36" RCP storm drainage system between Indian School and Interstate 40.

The contractor's correction period began the date of this letter and is effective for a period of one (1) year.

Sincerely,

Russell B. Givler, P.E.

Chief Construction Engineer,

Public Works Department

CC:

Mark Goodwin & Assoc.

TLC Plumbing

Fred Aguirre, Hydrology, PWD

Tina Pohl, Engineering Group, PWD

Terri Martin, Engineering Group, PWD

Martin Barker, Materials Testing Lab

Linda Adamsko, Special Assessments, DFM

Sam Hall, Water Systems, PWD

Jim Fink, Liquid Waste, PWD

Dean Wall, Street Maintenance, PWD

Jack McDonough, Water/Wastewater Group, PWD

Ray Chavez, Traffic Engineering, PWD

Josie Jaramillo, New Meter Sales, Finance Group, PWD

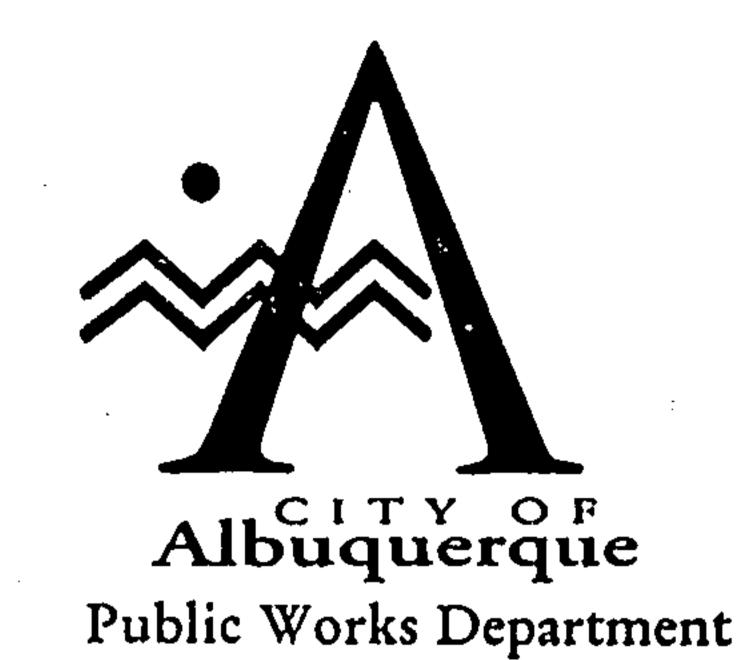
Richard Zamora, Maps and Records, PWD

John Ewing, Risk Management

f/Project No. 551381

f/Readers

f/Warranty:Contract



June 18, 1997

5021 India School

Martin J. Chávez, Mayor

Robert E. Gurulé, Director

Mark Goodwin, P.E. Mark Goodwin & Assoc. P.O. Box 90606 Albuquerque, NM 87199

RE: NETHERWOOD COMMONS (H17-D84). ENGINEER'S CERTIFICATION FOR CERTIFICATE OF OCCUPANCY. ENGINEER'S CERTIFICATION DATED 5-10-97.

Dear Mr. Goodwin:

Based on the information provided on your June 10, 1997 submittal, the above referenced project is approved for Certificate of Occupancy.

If I can be of further assistance, please feel free to contact me at 924-3984.

Singerely,

Lisa Ann Manwill, P.E.

Engineering Assoc./Hyd.

c: Andrew Garcia
File



New Mexico State Highway and Transportation Department

INTRA-DEPARTMENTAL CORRESPONDENCE

SUBJECT:

Netherwood Commons

Indian School and I-40

Date: 06/12/97

TO:

Kathy Trujillo

File Ref: District Three Traffic Engineer

// Attention of:

FROM;

Raymunda A. Van Hoven Raymunda A. Van Hoven Raymunda A. Van Hoven

hereby approved.

I have reviewed the as-builts for the subject development and concur with the construction of the storm drain connection, The construction of the drop inlet connection to the 42" culvert is

xc: Steve Harris, DO#3 Julian Vigil, DO#3

Post-It® Fax Note 7671	Date 17) un pages
To Porce Martines	From Mary Trusice
Co./Dept.	Co.
Phone #	Phone # 541-2761
Fax# 797-9539	Fax#

CERTIFICATE OF SUBSTANTIAL COMPLIANCE

I, <u>Mark Goodwin, PE</u>	of the firm of <u>Mark Goodwin and Associates, PA</u>
a Registered Professional Engineer in the	State of New Mexico, and Project Engineer for the construction
of the following facilities:	
Netherwood Commons	, <u>Public Storm Drain</u>
Project No.: <u>551381</u>	Sheets <u>1-3</u>
Including:	X Storm Drain
	Sanitary Sewer
	Water
	Curb and Gutter
	Paving
as constructed by <u>T.L.C.</u>	of <u>Albuquerque, NM</u> under
contract to Pebbles Ltd.	of <u>Albuquerque, NM</u> .
the Developer; do hereby certify that th	e facilities noted above have been inspected by me or under by
direct supervision and have been construc	ed in substantial compliance with the City of Albuquerque Public
Works Contract No. <u>551381</u> contrac	t documents and the construction drawings noted above to the
best of my knowledge and belief.	
	Respectfully Submitted,
	5/13/97
*	Signature Date
Attachments: Potabil	ty Tests
<u>X</u> Test Roxal X As Buil	ports Drawings 8948
X Inspec	ion Reports
Manho	e Data Sheets
Valve I	ata Sheets
Work Order Date: February 19, 1	
FINAL INSPECTION DATE:A	<u> </u>