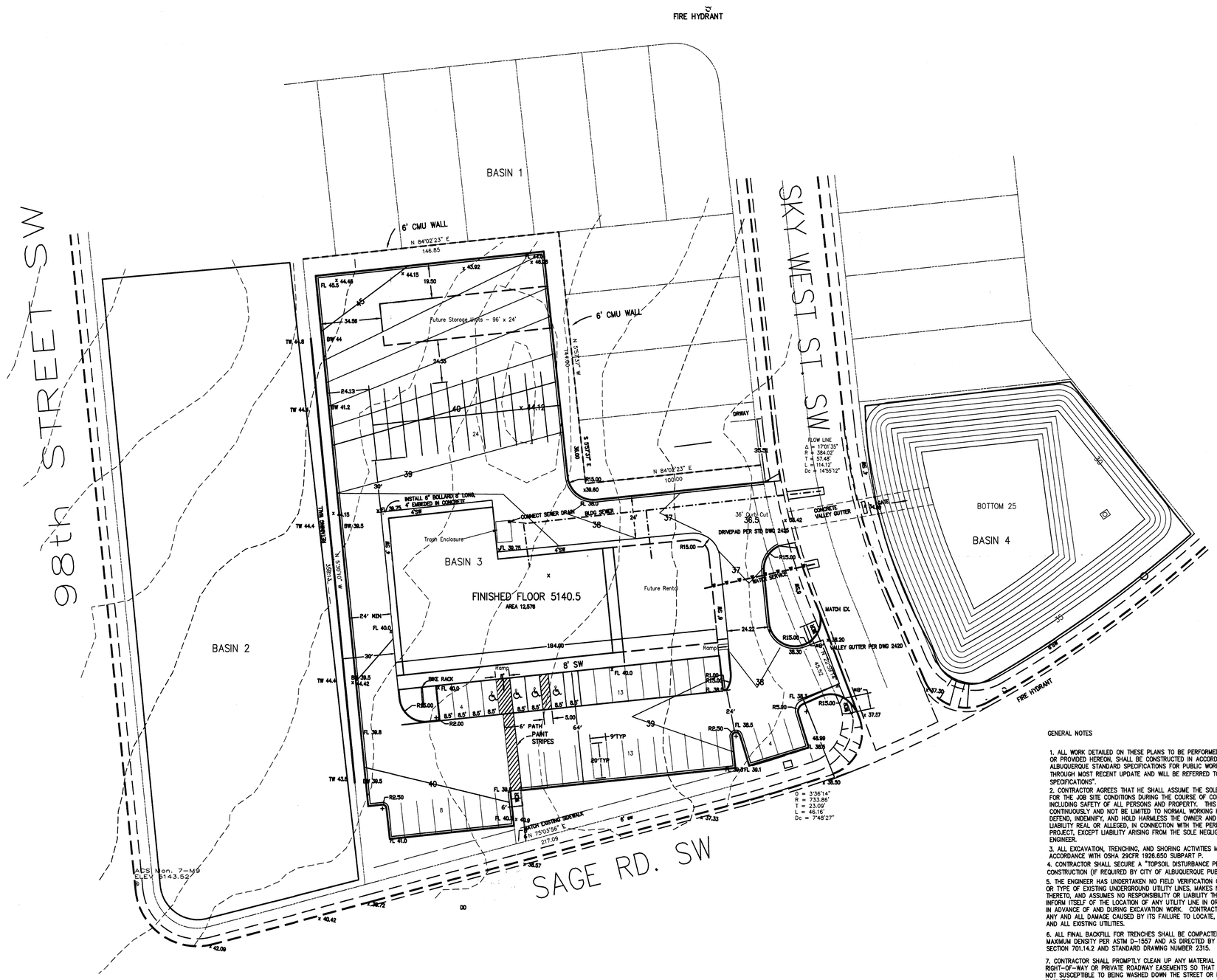
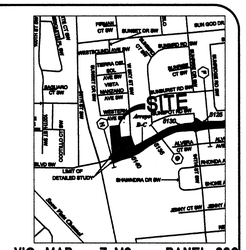
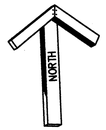
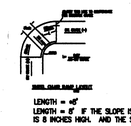




VIC. MAP Z M9 PANEL 336



SCALE: 1'=30'



LENGTH = 48'
LENGTH = 8' IF THE SLOPE IS FLAT AND THE CURB IS 6 INCHES HIGH AND THE SLOPE IS NEVER FLAT

PARKING SPACES NEEDED 12,600 / 200=63
PARKING SPACES PROVIDED 66

LEGAL DESCRIPTION

TRACT B EXC. NELY PORTION, EXC. WLY PORTION WEST VIEW TOWNHOMES ADDITION, ALBUQUERQUE, NM 1.56 ACRES MorL.

UPC 100905515646322001

BENCHMARK

ACS MONUMENT LOCATED ON THE CURB OF 98TH STREET AT THE INTERSECTION WITH SAGE ROAD. ELEV. 5143.52

NARRATIVE

THE POND ON THE EAST SIDE OF WEST SKY ST. WAS CREATED TO SERVE THIS SUBDIVISION PROJECT INCLUDING THESE COMMERCIAL PARCELS, BUT THE OUTFALL SEWER HAS NOT BEEN COMPLETED. EXAMINATION OF THE POND SHOWED THAT IS WAS LARGE ENOUGH TO IMPOUND THE 100 YR, 10-DAY STORM. THE OUTFALL SEWER IS WAITING FOR FUNDING TO BE COMPLETED.

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH MOST RECENT UPDATE AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
2. CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
3. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
4. CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION (IF REQUIRED BY CITY OF ALBUQUERQUE PUBLIC WORKS).
5. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES.
6. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 90 % MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.
7. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
8. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE PROJECT MANAGER. THERE WILL BE NO DIRECT COMPENSATION FOR THIS WORK.
10. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT.
11. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PER COA STD DWG'S

TRAFFIC CIRCULATION LAYOUT APPROVED

Signed Date 4/18/05

Public Infrastructure shown on these plans for information only and not part of approval. Separate DRC/Permit approval and Work Order required.

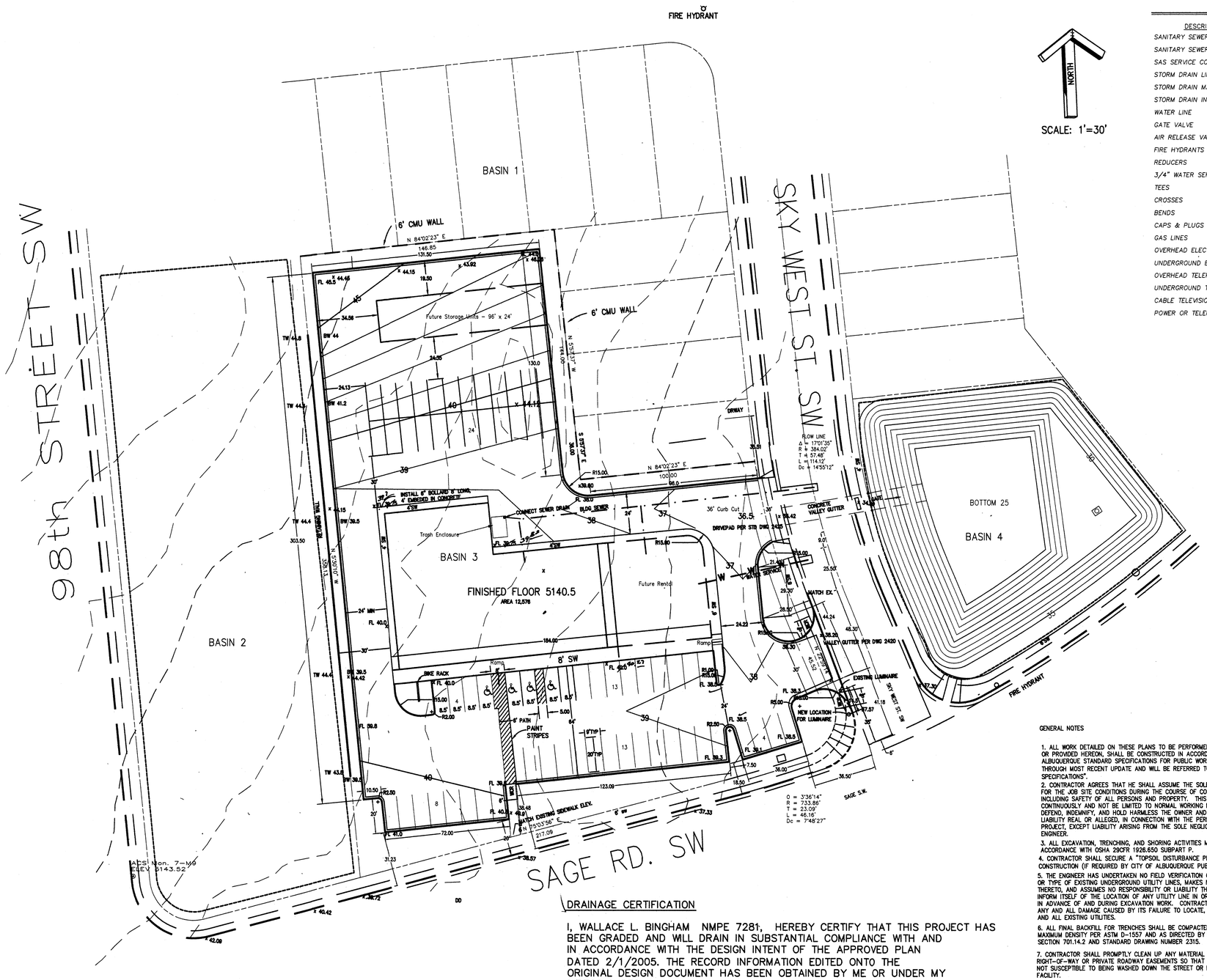
LEGEND

TC 98.43	PROPOSED TOP OF CURB ELEVATION
×69.93	PROPOSED SPOT ELEVATION
09.0	EXISTING SPOT ELEVATION (GRND & TC)
	TEMPORARY PAVING
	PROPOSED CURB & GUTTER
	EXISTING CURB AND GUTTER
60	EXISTING CONTOUR W/ INDEX ELEVATION
71	PROPOSED CONTOUR W/ INDEX ELEVATION
	FLOW ARROW
42"	STORM DRAIN WITH MANHOLE & INLETS
60" SD	PROPOSED STORM DRAIN
	PROPOSED STORM SEWER CATCH BASIN
	PROPOSED WATER BLOCK
	BASIN BOUNDARY
	SUB BASIN BOUNDARY
	PHASE LINE
	RETAINING WALL

BINGHAM ENGINEERING
ALBUQUERQUE, NEW MEXICO
505 797 4699

WALLACE L. BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER 4/18/05

TRAFFIC CONTROL LAYOUT PLAN
PLAZA CUAUHTEMOC



UTILITY LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE	—Sas—	-EX 8" -S
SANITARY SEWER MANHOLE		
SAS SERVICE CONNECTION	—S—	—S—
STORM DRAIN LINE	—18" SD—	-EX 18" SD
STORM DRAIN MANHOLE	N/A	
STORM DRAIN INLETS		
WATER LINE	—8" W—	-EX 8" -W
GATE VALVE		
AIR RELEASE VALVE		N/A
FIRE HYDRANTS		
REDUCERS		
3/4" WATER SERVICE/METER		
TEES		
CROSSES		
BENDS		
CAPS & PLUGS		
GAS LINES	N/A	2" H.P.
OVERHEAD ELECTRICAL LINE	N/A	
UNDERGROUND ELECTRICAL	N/A	
OVERHEAD TELEPHONE	N/A	
UNDERGROUND TELEPHONE	N/A	
CABLE TELEVISION	N/A	
POWER OR TELEPHONE POLE	N/A	

```
START                  TIME=0.0 CODE 0 LINES 80
*S                     COMPUTE 100 YR. HYDROGRAPHS FOR THE JAQUEZ CARNACERA
*S                     USE 6 HOUR STORM
*
*-----------------------------------------------------------------------
*JAQUEZ.TXT     -      HYMO PER JAN 1997 DPM REVISIONS
RAINFALL               TYPE=-1 RAIN QUAN=0.0 RAIN ONE= 1.87
                       RAIN SIX= 2.4 RAIN DAY=2.8 DT=0.05
*-----------------------------------------------------------------------
*S BASIN 1: EXISTING
COMPUTE NM HYD         ID=1   HYD NO= 101.1   DA=.01745 SQ MI
                       PER A=0 PER B=0 PER C=30  PER D=30 TP=-.16
                       RAIN=-1
PRINT HYD              ID=1      CODE=10
*-----------------------------------------------------------------------
*S BASIN 2: EXISTING
COMPUTE NM HYD         ID=2   HYD NO= 102.1   DA=.00164 SQ MI
                       PER A=90 PER B=0 PER C=10  PER D=0 TP=-.13
                       RAIN=-1
PRINT HYD              ID=2      CODE=10
*-----------------------------------------------------------------------
*S BASIN 3: EXISTING
COMPUTE NM HYD         ID=3   HYD NO= 103.1   DA=.00245 SQ MI
                       PER A=90 PER B=0 PER C=10  PER D=0 TP=-.13
                       RAIN=-1
PRINT HYD              ID=3      CODE=10
*-----------------------------------------------------------------------
*S BASIN 3: PROPOSED
COMPUTE NM HYD         ID=4   HYD NO= 104.1   DA=.00245 SQ MI
                       PER A=0 PER B=15 PER C=0  PER D=85 TP=-.13
                       RAIN=-1
PRINT HYD              ID=4      CODE=10
*-----------------------------------------------------------------------
*S BASIN 4: PROPOSED
COMPUTE NM HYD         ID=5   HYD NO= 105.1   DA=.00072 SQ MI
                       PER A=100 PER B=0 PER C=0  PER D=0 TP=-.13
                       RAIN=-1
PRINT HYD              ID=5      CODE=10
*-----------------------------------------------------------------------
ADD HYD                ID 10 HYD 110.0 I=1 S=2
print HYD              ID 10 CODE 10

ADD HYD                ID 11 HYD 111.0  I= 4 S=5
PRINT HYD              ID 11    CODE 10

ADD HYD                ID 12 HYD 112.1  I= 10  S 11
PRINT HYD              ID 12 CODE 10

FINISH
```

```
AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) -                  - VERSION: 1997.02a     RUN DATE (MON/DAY/YR) =01/31/2005
INPUT FILE = D:\Ahymo\JAQUEZ.txt                                                  USER NO.= AHYMO-i-97022a01000076-SH

                                                                                                                  PAGE =  1
                  FROM  TO                                                                  CFS
                                  PEAK                  RUNOFF                  TIME TO   PER
COMMAND   HYDROGRAPH  ID   ID                AREA   DISCHARGE   VOLUME   RUNOFF  PEAK   ACRE   NOTATION
          IDENTIFICATION NO. NO.            (SQ MI)   (CFS)     (AC-FT)  (INCHES) (HOURS)

                                                                                                   TIME=     .00
START
*S        COMPUTE 100 YR. HYDROGRAPHS FOR THE JAQUEZ CARNACERA
*S        USE 6 HOUR STORM
                                                                                                   RAIN6=   2.400
RAINFALL  TYPE= 1
*S BASIN 1: EXISTING
COMPUTE NM HYD     101.10  -   1    .01745    35.10    1.497   1.60881  1.550   3.143 PER IMP=  50.00
*S BASIN 2: EXISTING
COMPUTE NM HYD     102.10  -   2    .00164     1.73     .048   .54989   1.500   1.644 PER IMP=   .00
*S BASIN 3: EXISTING
COMPUTE NM HYD     103.10  -   3    .00245     2.58     .072   .54989   1.500   1.642 PER IMP=   .00
*S BASIN 3: PROPOSED
COMPUTE NM HYD     104.10  -   4    .00245     6.34     .253   1.93779  1.500   4.041 PER IMP=  85.00
*S BASIN 4: PROPOSED
COMPUTE NM HYD     105.10  -   5    .00072      .70     .020   .50908   1.500   1.521 PER IMP=   .00
ADD HYD            110.00  1& 2  10           .01909    36.70   1.548   1.51782  1.500   3.004
ADD HYD            111.00  4& 5  11           .00317     7.04    .273   1.61319  1.500   3.469
ADD HYD            112.10 10&11  12           .02226    42.80   1.818   1.53140  1.550   3.004
FINISH
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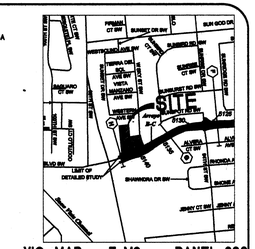

6X18 CURB AND GUTTER

PAVEMENT SECTION

LENGTH = 40'
LENGTH = 6' IF THE SLOPE IS FLAT AND THE CURB IS 6 INCHES HIGH. AND THE SLOPE IS NEVER FLAT

VOLUME OF THE POND:

CONTOUR	AREA	AVERAGE	DEPTH	VOLUME
35	19098			
		15500	5	77500
30	11883			
		10384	1	10384
29	8885			
		6907	4	27628
25	4927			
				115512 TOTAL

115512 ÷ 43560 = 2.65 AC.FT

VOLUME OF 10 DAY STORM:

$VOL_6 + A_D * (P_{10} - P_6) = VOL_{10}$

1.818 + (5.58–1.33) * (1.45)/12 = 2.33 Ac. Ft.

PARKING SPACES NEEDED 12,600 / 200=63
PARKING SPACES PROVIDED 66

LEGAL DESCRIPTION

TRACT B EXC. NELY PORTION, EXC. WLY PORTION WEST VIEW TOWNHOMES ADDITION, ALBUQUERQUE, NM 1.56 ACRES MorL.

UPC 100905515646322001

BENCHMARK

ACS MONUMENT LOCATED ON THE CURB OF 98TH STREET AT THE INTERSECTION WITH SAGE ROAD. ELEV. 5143.52

NARRATIVE

THE POND ON THE EAST SIDE OF WEST SKY ST. WAS CREATED TO SERVE THIS SUBDIVISION PROJECT INCLUDING THESE COMMERCIAL PARCELS, BUT THE OUTFALL SEWER HAS NOT BEEN COMPLETED. EXAMINATION OF THE POND SHOWED THAT IS WAS LARGE ENOUGH TO IMPOUND THE 100 YR, 10-DAY STORM. THE OUTFALL STORM SEWER IS WAITING FOR FUNDING TO BE COMPLETED.

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH MOST RECENT UPDATE AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
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6. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 90 % MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.
7. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
8. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
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10. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT.
11. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PER COA STD DWG'S

LEGEND

TC 98.43	PROPOSED TOP OF CURB ELEVATION
×69.93	PROPOSED SPOT ELEVATION
09.0	EXISTING SPOT ELEVATION (GRND & TC)
	TEMPORARY PAVING
	PROPOSED CURB & GUTTER
	EXISTING CURB AND GUTTER
60	EXISTING CONTOUR W/ INDEX ELEVATION
71	PROPOSED CONTOUR W/ INDEX ELEVATION
	FLOW ARROW
45°	STORM DRAIN WITH MANHOLE & INLETS
60" SD	PROPOSED STORM DRAIN
	PROPOSED STORM SEWER CATCH BASIN
	PROPOSED WATER BLOCK
	BASIN BOUNDARY
	SUB BASIN BOUNDARY
	PHASE LINE
	RETAINING WALL

DRAINAGE CERTIFICATION

I, WALLACE L. BINGHAM NMPE 7281, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 2/1/2005. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST ON MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR RELEASE OF CERTIFICATE OCCUPANCY.

AS-BUILT DESIGNATION 92.10 / 92.08 OR 92.50

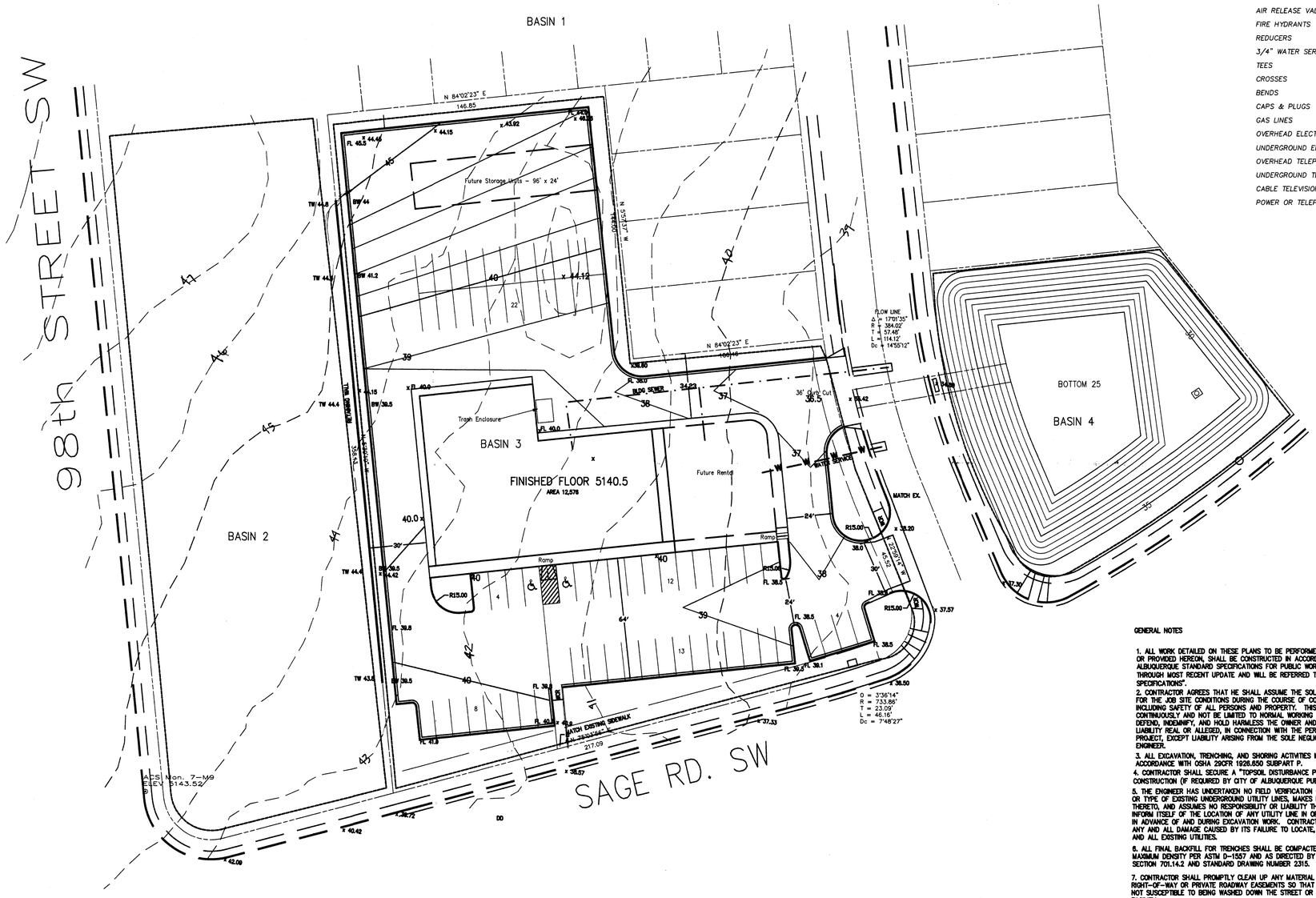
WALLACE L. BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER
9/15/07

BINGHAM ENGINEERING
ALBUQUERQUE, NEW MEXICO
505 797 4699

WALLACE L. BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER
2/1/05

GRADING AND DRAINAGE PLAN
PLAZA CUAUHTEMOC

RECEIVED
SEP 17 2007
HYDROLOGY SECTION



UTILITY LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE	—Sas—	—EX 8" S—
SANITARY SEWER MANHOLE	—●—	—○—
SAS SERVICE CONNECTION	—S—	—S—
STORM DRAIN LINE	—18" SD—	—EX 18" SD—
STORM DRAIN MANHOLE	N/A	—◎—
STORM DRAIN INLETS	■	□
WATER LINE	—8" W—	—EX 8" W—
GATE VALVE	—▶◀—	—⋈—
AIR RELEASE VALVE	N/A	N/A
FIRE HYDRANTS		
REDUCERS		
3/4" WATER SERVICE/METER		
TEES		
CROSSES		
BENDS		
CAPS & PLUGS		
GAS LINES	N/A	—G 2" H.P.—
OVERHEAD ELECTRICAL LINE	N/A	—E—
UNDERGROUND ELECTRICAL	N/A	—UE—
OVERHEAD TELEPHONE	N/A	—T—
UNDERGROUND TELEPHONE	N/A	—UT—
CABLE TELEVISION	N/A	—CV—
POWER OR TELEPHONE POLE	N/A	

```
START          TIME=0.0 CODE 0 LINES 80
*S             COMPUTE 100 YR. HYDROGRAPHS FOR THE JAQUEZ CARNACERIA
*S             USE 6 HOUR STORM
*
*--------------------------------------------------------------
*AJAQUEZ.TXT   -  HYMO PER JAN 1997 DPM REVISIONS
RAINFALL       TYPE=-1 RAIN QUAR=0.0 RAIN ONE= 1.87
               RAIN SIX= 2.4 RAIN DAY=2.8 DT=0.05
*--------------------------------------------------------------
*S BASIN 1: EXISTING
COMPUTE NM HYD     ID=1  HYD NO= 101.1  DA=.01745 SQ MI   11.168 Ac.
                   PER A=0 PER B=0 PER C=50  PER D=50 TP=-.18
                   RAIN=-1
PRINT HYD          ID=1     CODE=10
*--------------------------------------------------------------
*S BASIN 2: EXISTING
COMPUTE NM HYD     ID=2  HYD NO= 102.1  DA=.00164 SQ MI   1.0496 AC.
                   PER A=90 PER B=0 PER C=10  PER D=0 TP=-.13
                   RAIN=-1
PRINT HYD          ID=2     CODE=10
*--------------------------------------------------------------
*S BASIN 3: EXISTING
COMPUTE NM HYD     ID=3  HYD NO= 103.1  DA=.00245 SQ MI   1.568 AC.
                   PER A=90 PER B=0 PER C=10  PER D=0 TP=-.13
                   RAIN=-1
PRINT HYD          ID=3     CODE=10
*--------------------------------------------------------------
*S BASIN 3: PROPOSED
COMPUTE NM HYD     ID=4  HYD NO= 104.1  DA=.00245 SQ MI   1.568 AC.
                   PER A=0 PER B=15 PER C=0  PER D=85 TP=-.13
                   RAIN=-1
PRINT HYD          ID=4     CODE=10
*--------------------------------------------------------------
*S BASIN 4: PROPOSED
COMPUTE NM HYD     ID=5  HYD NO= 105.1  DA=.00072 SQ MI   0.4608 Ac.
                   PER A=100 PER B=0 PER C=0  PER D=0 TP=-.13
                   RAIN=-1
PRINT HYD          ID=2     CODE=10
*--------------------------------------------------------------
ADD HYD            ID 10 HYD 110.0 I=1 I=2
print HYD          ID 10 CODE 10

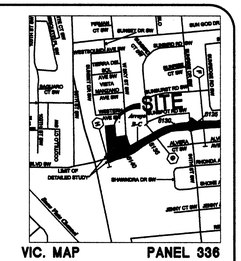
ADD HYD            ID 11 HYD 111.0  I= 4 I=5
PRINT HYD          ID 11     CODE 10

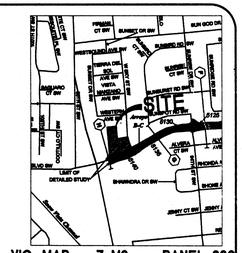
ADD HYD            ID 12 HYD 112.1  I= 10  I 11
PRINT HYD          ID 12 CODE 10

FINISH
```

AHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02a RUN DATE (MON/DAY/YR) =01/31/2005
INPUT FILE = D:\Ahymo\AJAQUEZ.txt USER NO.= AHYMO-1-97020/01000701-SH

COMMAND	HYDROGRAPH IDENTIFICATION	NO.	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION
START											PAGE = 1
*S	COMPUTE 100 YR. HYDROGRAPHS FOR THE JAQUEZ CARNACERIA										TIME= .00
*S	USE 6 HOUR STORM										
RAINFALL TYPE= 1						40.43					RAIN6= 2.400
*S BASIN 1: EXISTING											
COMPUTE NM HYD		101.10	-	1	.01745	35.10	1.497	1.60881	1.500	3.143	PER IMP= 50.00
*S BASIN 2: EXISTING											
COMPUTE NM HYD		102.10	-	2	.00164	1.73	.048	.54069	1.500	1.644	PER IMP= .00
*S BASIN 3: EXISTING											
COMPUTE NM HYD		103.10	-	3	.00245	2.58	.072	.54069	1.500	1.642	PER IMP= .00
*S BASIN 3: PROPOSED											
COMPUTE NM HYD		104.10	-	4	.00245	6.34	.253	1.93779	1.500	4.041	PER IMP= 85.00
*S BASIN 4: PROPOSED											
COMPUTE NM HYD		105.10	-	5	.00072	.70	.020	.50908	1.500	1.521	PER IMP= .00
ADD HYD		110.00	1& 2	10	.01909	36.70	1.545	1.51782	1.500	3.004	
ADD HYD		111.00	4& 5	11	.00317	7.04	.273	1.61319	1.500	3.469	
ADD HYD		112.10	10&11	12	.02226	42.80	1.818	1.53140	1.500	3.004	
FINISH											





VIC. MAP Z M9 PANEL 336

SCALE: 1'=30'

TRAFFIC CIRCULATION LAYOUT CERTIFCATE

I, WALLACE L. BINGHAM, NMPE, OF THE FIRM, BINGHAM ENGINEERING, HEREBY CERTIFIES THAT THIS PROJECT IS IN SUBSTANTIAL CONFORMANCE WITH WITH THE DESIGN INTENT OF THE PLAN, APPROVED, ~~8/15/05~~. THE HAND RECORDED INFORMATION ADDED, WAS OBTAINED AND PLACED ON THE ORIGINAL DESIGN DOCUMENT BY ME, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR A CERTICATE OF OCCUPANCY. THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE TRAFFIC ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

Wallace L Bingham
8/15/07 Date

WALLACE L. BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER

PARKING SPACES NEEDED 12,600 / 200=63
PARKING SPACES PROVIDED 66

LENGTH = 48'
LENGTH = 8' IF THE SLOPE IS FLAT AND THE CURB IS 6 INCHES HIGH. AND THE SLOPE IS NEVER FLAT

LEGAL DESCRIPTION

TRACT B EXC. NELY PORTION, EXC. WLY PORTION WEST VIEW TOWNHOMES ADDITION, ALBUQUERQUE, NM 1.56 ACRES MorL.

UPC 100905515646322001

BENCHMARK

ACS MONUMENT LOCATED ON THE CURB OF 98TH STREET AT THE INTERSECTION WITH SAGE ROAD. ELEV. 5143.52

NARRATIVE

THE POND ON THE EAST SIDE OF WEST SKY ST. WAS CREATED TO SERVE THIS SUBDIVISION PROJECT INCLUDING THESE COMMERCIAL PARCELS, BUT THE OUTFALL SEWER HAS NOT BEEN COMPLETED. EXAMINATION OF THE POND SHOWED THAT IS WAS LARGE ENOUGH TO IMPOUND THE 100 YR, 10-DAY STORM. THE OUTFALL SEWER IS WAITING FOR FUNDING TO BE COMPLETED.

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH MOST RECENT UPDATE AND WILL BE REFERRED TO HEREIN AS "STANDARD SPECIFICATIONS".
2. CONTRACTOR AGREES THAT HE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD HARMLESS THE OWNER AND ENGINEER FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
3. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
4. CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION (IF REQUIRED BY CITY OF ALBUQUERQUE PUBLIC WORKS).
5. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES. MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES.
6. ALL FINAL BACKFILL FOR TRENCHES SHALL BE COMPACTED TO A MINIMUM OF 90 % MAXIMUM DENSITY PER ASTM D-1557 AND AS DIRECTED BY STANDARD SPECIFICATIONS SECTION 701.14.2 AND STANDARD DRAWING NUMBER 2315.
7. CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
8. REMOVALS SHALL BE DISPOSED OF OFF-SITE AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE PROJECT MANAGER. THERE WILL BE NO DIRECT COMPENSATION FOR THIS WORK.
10. REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK SHALL BE TO THE NEAREST JOINT OR SAW CUT.
11. WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED PER COA STD DWG'S

TRAFFIC CIRCULATION LAYOUT APPROVED
Signed 4/6/05 Date

Public Infrastructure shown on these plans for information only and not part of approval. Separate DRC/Permit approval and Work Order required.

LEGEND

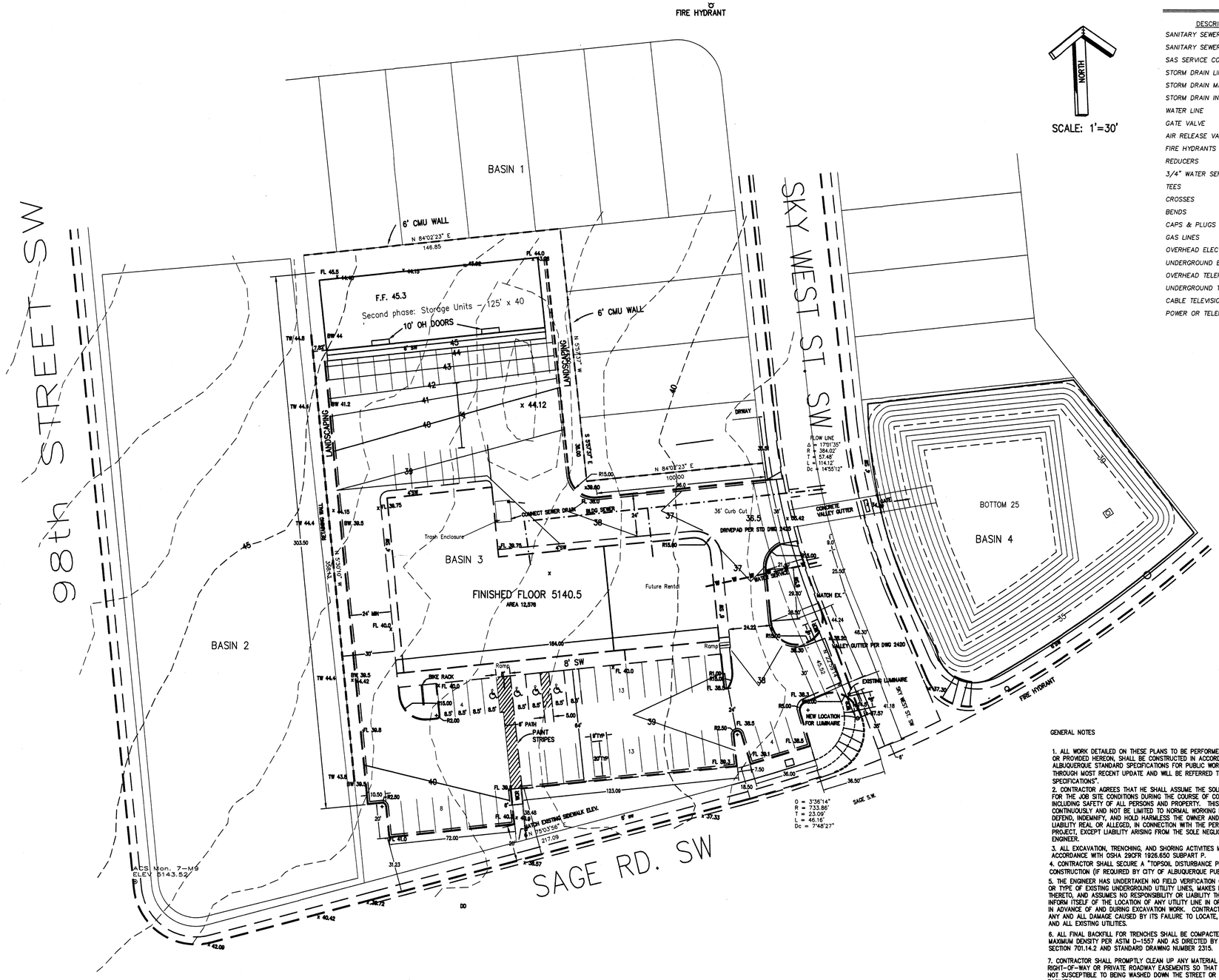
TC 98.43	PROPOSED TOP OF CURB ELEVATION
×69.93	PROPOSED SPOT ELEVATION
09.0	EXISTING SPOT ELEVATION (GRND & TC)
	TEMPORARY PAVING
	PROPOSED CURB & GUTTER
	EXISTING CURB AND GUTTER
69	EXISTING CONTOUR W/ INDEX ELEVATION
71	PROPOSED CONTOUR W/ INDEX ELEVATION
	FLOW ARROW
42"	STORM DRAIN WITH MANHOLE & INLETS
09" SD	PROPOSED STORM DRAIN
	PROPOSED STORM SEWER CATCH BASIN
	PROPOSED WATER BLOCK
	BASIN BOUNDARY
	SUB BASIN BOUNDARY
	PHASE LINE
	RETAINING WALL

BINGHAM ENGINEERING
ALBUQUERQUE, NEW MEXICO
505 797 4899

WALLACE L BINGHAM NEW MEXICO 7281 REGISTERED PROFESSIONAL ENGINEER 4/11/05

TRAFFIC CONTROL LAYOUT PLAN
PLAZA CUAUHTEMOC

RECEIVED SEP 17 2007 HYDROLOGY SECTION



UTILITY LEGEND

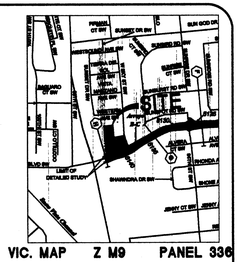
DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER LINE	—Sas—	—EX 8" S—
SANITARY SEWER MANHOLE	●	○
SAS SERVICE CONNECTION	S	S
STORM DRAIN LINE	—18" SD—	—EX 18" SD—
STORM DRAIN MANHOLE	N/A	◎
STORM DRAIN INLETS	■	
WATER LINE	—8" W—	—EX 8" W—
GATE VALVE		
AIR RELEASE VALVE		N/A
FIRE HYDRANTS		
REDUCERS		
3/4" WATER SERVICE/METER		
TEES		
CROSSES		
BENDS		
CAPS & PLUGS		
GAS LINES	N/A	2" H.P.
OVERHEAD ELECTRICAL LINE	N/A	
UNDERGROUND ELECTRICAL	N/A	
OVERHEAD TELEPHONE	N/A	
UNDERGROUND TELEPHONE	N/A	
CABLE TELEVISION	N/A	
POWER OR TELEPHONE POLE	N/A	

```
START                    TIME=0.0 CODE 0 LINES 80
*5                       COMPUTE 100 YR. HYDROGRAPHS FOR THE JAQUEZ CARNACERIA
*5                       USE 6 HOUR STORM
*
*-----------------------------------------------------------------------
*JAQUEZ.TXT  -           HYMO PER JAN 1997 DPM REVISIONS
RAINFALL                 TYPE=-1 RAIN QUAR=0.0 RAIN ONE= 1.87
                         RAIN 100= 2.4 RAIN DAY=2.8 DT=0.05
*-----------------------------------------------------------------------
*5 BASIN 1: EXISTING
COMPUTE NM HYD           ID=1  HYD NO= 101.1  DA=.01745 SQ MI
                         PER A=0 PER B=0 PER C=50  PER D=50 TP=-.18
                         RAIN=-1
PRINT HYD                ID=1     CODE=10
*-----------------------------------------------------------------------
*5 BASIN 2: EXISTING
COMPUTE NM HYD           ID=2  HYD NO= 102.1  DA=.00164 SQ MI
                         PER A=80 PER B=0 PER C=10  PER D=10 TP=-.13
                         RAIN=-1
PRINT HYD                ID=2     CODE=10
*-----------------------------------------------------------------------
*5 BASIN 3: EXISTING
COMPUTE NM HYD           ID=3  HYD NO= 103.1  DA=.00245 SQ MI
                         PER A=80 PER B=0 PER C=10  PER D=10 TP=-.13
                         RAIN=-1
PRINT HYD                ID=3     CODE=10
*-----------------------------------------------------------------------
*5 BASIN 3: PROPOSED
COMPUTE NM HYD           ID=4  HYD NO= 104.1  DA=.00245 SQ MI
                         PER A=0 PER B=15 PER C=0  PER D=85  TP=-.13
                         RAIN=-1
PRINT HYD                ID=4     CODE=10
*-----------------------------------------------------------------------
*5 BASIN 4: PROPOSED
COMPUTE NM HYD           ID=5  HYD NO= 105.1  DA=.00072 SQ MI
                         PER A=100 PER B=0 PER C=0  PER D=0 TP=-.13
                         RAIN=-1
PRINT HYD                ID=2     CODE=10
*-----------------------------------------------------------------------
ADD HYD                  ID 10 HYD 110.0 I=1 S=2
print HYD                ID 10 CODE 10

ADD HYD                  ID 11 HYD 111.0  I= 4 S=5
PRINT HYD                ID 11     CODE 10

ADD HYD                  ID 12 HYD 112.1  I= 10  S 11
PRINT HYD                ID 12 CODE 10

FINISH
```



VIC. MAP Z M9 PANEL 336

AYHYMO PROGRAM SUMMARY TABLE (AHYMO_97) - - VERSION: 1997.02a RUN DATE (MON/DAY/YR) =01/31/2005
INPUT FILE = D:\Aqyma\JAQUEZ.bak USER NO.= AHYMO-1-97026X1000076-SH

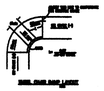
PAGE = 1

COMMAND	HYDROGRAPH IDENTIFICATION	FROM ID NO.	TO ID NO.	AREA (SQ MI)	PEAK DISCHARGE (CFS)	RUNOFF VOLUME (AC-FT)	RUNOFF (INCHES)	TIME TO PEAK (HOURS)	CFS PER ACRE	NOTATION
START										TIME= .00
*5	COMPUTE 100 YR. HYDROGRAPHS FOR THE JAQUEZ CARNACERIA									
*5	USE 6 HOUR STORM									
RAINFALL TYPE= 1										RAIN= 2.400
*5 BASIN 1: EXISTING										
COMPUTE NM HYD	101.10	-	1	.01745	35.10	1.497	1.60881	1.500	3.143	PER IMP= 50.00
*5 BASIN 2: EXISTING										
COMPUTE NM HYD	102.10	-	2	.00164	1.73	.048	.54989	1.500	1.844	PER IMP= .00
*5 BASIN 3: EXISTING										
COMPUTE NM HYD	103.10	-	3	.00245	2.58	.072	.54989	1.500	1.842	PER IMP= .00
*5 BASIN 3: PROPOSED										
COMPUTE NM HYD	104.10	-	4	.00245	6.34	.253	1.93779	1.500	4.041	PER IMP= 85.00
*5 BASIN 4: PROPOSED										
COMPUTE NM HYD	105.10	-	5	.00072	.70	.020	.50908	1.500	1.521	PER IMP= .00
ADD HYD	110.00	1& 2	10	.01909	36.70	1.545	1.51792	1.500	3.004	
ADD HYD	111.00	4& 5	11	.00317	7.04	.273	1.61319	1.500	3.498	
ADD HYD	112.10	10&11	12	.02226	42.80	1.818	1.53440	1.500	3.004	
FINISH										

6X18 CURB AND GUTTER

3" BITUMINOUS PAVEMENT
12" SUBGRADE PREP

PAVEMENT SECTION



VOLUME OF THE POND:

CONTOUR	AREA	AVERAGE	DEPTH	VOLUME	
35	19098	15500	5	77500	
30	11883	10384	1	10384	
29	8885	6907	4	27628	
25	4927			115512	TOTAL

115512 ÷ 43560 = 2.65 AC.FT

VOLUME OF 10 DAY STORM:

$VOL_6 + A_D * (R_{10} - P_6) = VOL_{10}$

1.818 + (5.58–1.33) * (1.45)/12 = 2.33 Ac. Ft.

PARKING SPACES NEEDED 12,600 / 200=63
PARKING SPACES PROVIDED 66

LEGAL DESCRIPTION

TRACT B EXC. NELY PORTION, EXC. WLY PORTION WEST VIEW TOWNHOMES ADDITION, ALBUQUERQUE, NM 1.56 ACRES MorL.

UPC 100905515646322001

BENCHMARK

ACS MONUMENT LOCATED ON THE CURB OF 98TH STREET AT THE INTERSECTION WITH SAGE ROAD. ELEV. 5143.52

NARRATIVE

THE POND ON THE EAST SIDE OF WEST SKY ST. WAS CREATED TO SERVE THIS SUBDIVISION PROJECT INCLUDING THESE COMMERCIAL PARCELS, BUT THE OUTFALL SEWER HAS NOT BEEN COMPLETED. EXAMINATION OF THE POND SHOWED THAT IS WAS LARGE ENOUGH TO IMPOUND THE 100 YR, 10–DAY STORM. THE OUTFALL STORM SEWER IS WAITING FOR FUNDING TO BE COMPLETED.
THE 2nd PHASE OF DEVELOPMENT WILL NOT INCREASE THE AMOUNT OF IMPERVIOUS AREA.

GENERAL NOTES

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LEGEND

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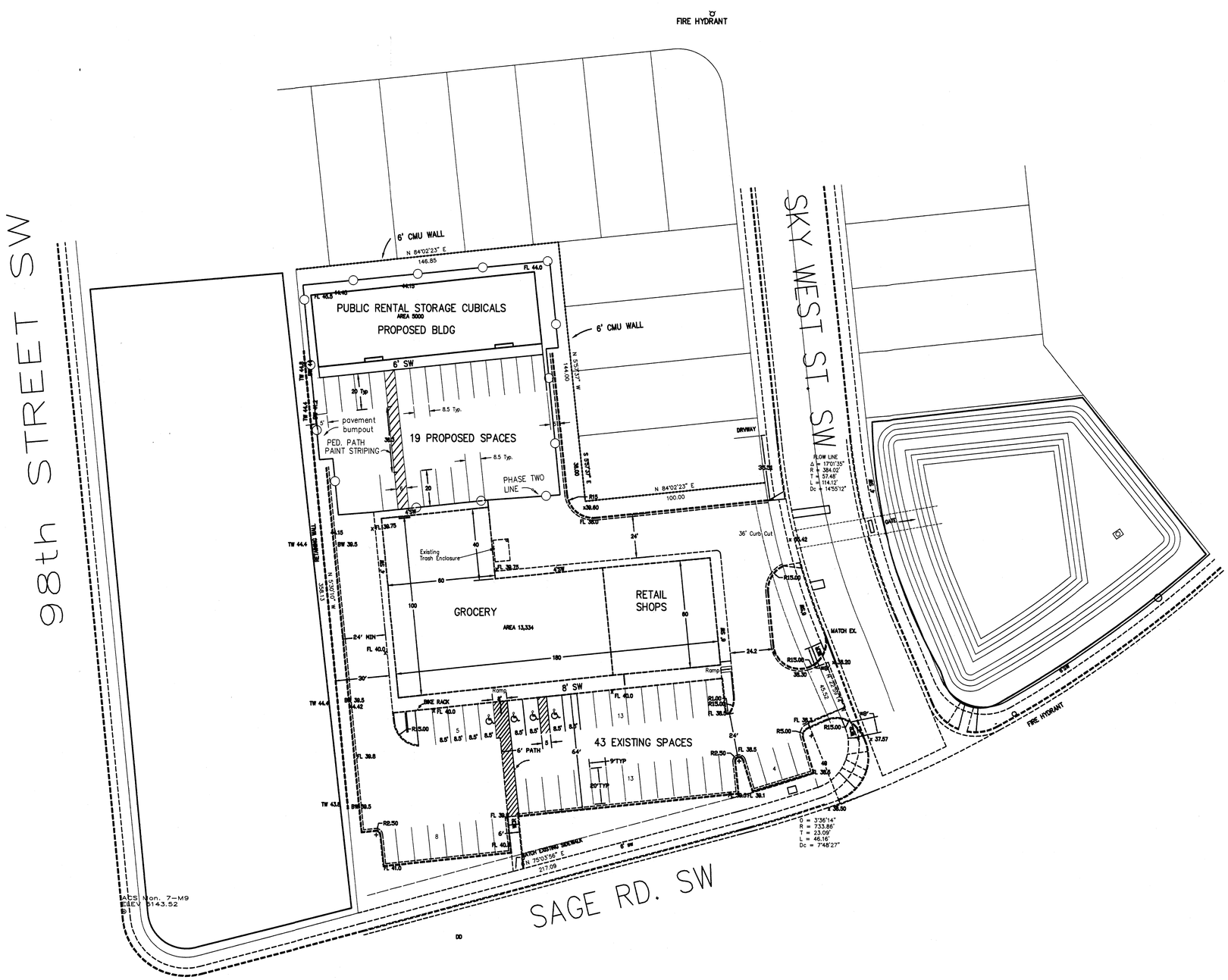
×69.93	PROPOSED SPOT ELEVATION
09.0	EXISTING SPOT ELEVATION (GRND & TC)
	TEMPORARY PAVING
	PROPOSED CURB & GUTTER
	EXISTING CURB AND GUTTER
60	EXISTING CONTOUR W/ INDEX ELEVATION
71	PROPOSED CONTOUR W/ INDEX ELEVATION
	FLOW ARROW
45°	STORM DRAIN WITH MANHOLE & INLETS
20" SD	PROPOSED STORM DRAIN
	PROPOSED STORM SEWER CATCH BASIN
	PROPOSED WATER BLOCK
	BASIN BOUNDARY
	SUB BASIN BOUNDARY
	PHASE LINE
	RETAINING WALL

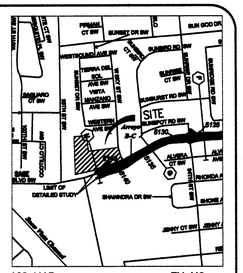
RECEIVED
OCT 0 5 2007
HYDROLOGY SECTION

BINGHAM ENGINEERING
ALBUQUERQUE, NEW MEXICO
505 797 4899

REGISTERED PROFESSIONAL ENGINEER
WALLACE L. BINGHAM
NEW MEXICO
7281
10/5/07

GRADING AND DRAINAGE PLAN
PLAZA CUAUHTEMOC
2nd PHASE DEVELOPMENT





VIC MAP ZM M9

NORTH

SCALE: 1'=30'

PARKING:

PARKING SPACES RETAIL 13334 * .9 / 200=60
PARKING SPACES STOR. .9 * 5000/2000 = 2.25
= 62 SPACES

19 EXISTING SPACES PLUS 43 EXISTING SPACES
EQUALS 62 PROPOSED SPACES

LEGAL DESCRIPTION

TRACT B EXC. NELY PORTION, EXC. WLY PORTION
WEST VIEW TOWNHOMES ADDITION, ALBUQUERQUE, NM
1.56 ACRES M or L.

UPC 100905515646322001

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71	PROPOSED CONTOUR W/ INDEX ELEVATION
	FLOW ARROW
42" 50	STORM DRAIN WITH MANHOLE & INLETS
30" SD	PROPOSED STORM DRAIN
	PROPOSED STORM SEWER CATCH BASIN
	PROPOSED WATER BLOCK
	BASIN BOUNDARY
	SUB BASIN BOUNDARY
	PHASE LINE
	RETAINING WALL
	PHASE BOUNDARY

TRAFFIC CIRCULATION LAYOUT APPROVED
10/17/07
SIGNING DATE

RECEIVED
OCT 16 2007
HYDROLOGY SECTION

BINGHAM ENGINEERING
ALBUQUERQUE, NEW MEXICO
505 797 4699

WALLACE L BINGHAM
NEW MEXICO
7281
REGISTERED PROFESSIONAL ENGINEER
10/16/07

TRAFFIC CONTROL LAYOUT PLAN
PLAZA CUAUHTEMOC
PHASE TWO