

Legal Description

TRACTS L-1-C-1 AND L-1-C-2, ATRISCO BUSINESS PARK

Drainage Calculations

Hydrology Calculations	TRACT	L-1-C-1		
Date: November 11, 2003		en alabando esta alabando e		· · · · · · · · · · · · · · · · · · ·
DPM - Section 22.2		e na integringalisa in na hiji ngunak igi nagungkora na na integrina na na na na na ing na ing na na na na na I		·
Volume 2, January 1993				
Precipitation Zone	1	anny anggagang gang bagan ang ang ang ang ang ang ang ang ang		NEW YORK OF THE PROPERTY.
100 Year Storm Depth, P (360)	2.2			
100 year Storm Depth, P (10 day)	3.67			
Treatment Area	Α	В	С	D
Excess Precipitation Factors	0.44	0.67	0.99	1.97
Peak Discharge Factors	1.29	2.03	2.87	4.37
Land Treatment Area	Acres	Existing	Proposed	
Type "D" (Roof)		0.00	0.89	
Type "C" (Unpaved Roadway)		0.00	0.00	
Type "B" (Irrigated Lawns)		0.00	0.24	ang digang ministrativa na disebut di mana kan di m Tanggaran kan di mana kan
Type "A" (Undeveloped)		1.13	0.00	
		4 40	4 40	
Total (Acres)		1.13	1.13	
Excess Precipitaion(in)		0.44	1.69	
Volume (100), cf		1804.84	6948.18	
Volume (10), cf		1209.24	4655.28	and the second second
Volume (100,10 day), cf		1804.84	11697.31	
Q (100), cfs		1.46	4.38	
Q (10), cfs		0.98	2.93	
Hydrology Calculations	TRACT	L-1-C-2		
Date: November 11, 2003				
DPM - Section 22.2				
Volume 2, January 1993				
Precipitation Zone	1			
100 Year Storm Depth, P (360)	2.2			
100 year Storm Depth, P (10 day)	3.67			
Treatment Area	Α	B 0.67	C	D 1.97
Excess Precipitation Factors Peak Discharge Factors	0.44 1.29	0.67 2.03	0.99 2.87	4.37
	A		Dronges	
Land Treatment Area	Acres	Existing	Proposed	
Type "D" (Roof)		0.00	0.50	
Type "C" (Unpaved Roadway)		0.00	0.00	
Type "B" (Irrigated Lawns)		0.00	0.14	
Type "A" (Undeveloped)		0.64	0.00	
Total (Acres)		0.64	0.64	
Excess Precipitaion(in)		0.44	1.69	and the second s
		4000.04	2040.04	
Volume (100), cf		1022.21	3916.04	
Volume (10),cf		684.88	2623.75	
The state of the s		1022.21	6584.09	
Volume (100,10 day), cf				
		0.83	2.47 1.65	

Design Narrative

DRAINAGE NARRATIVE

THIS PROPERTY IS LOCATED AT THE NORTHEAST CORNER OF UNSER AND BLUEWATER AND IS COMPRISED AS TRACT L-1-C-1 AND L-1-C-2 AND CONTAINS APPROXIMATELY 1.77 ACRES. THE SITE IS CURRENTLY UNDEVELOPED AND SLOPES FROM NORTH TO SOUTH ULTIMATELY DRAINING INTO BLUEWATER. THIS PLAN PROPOSES TO CONTINUE THE HISTORIC DRAINAGE PATTERN EXCEPT THAT THE FLOWS WILL BE COLLECTED INTO A DETENTION POND ON THE SOUTHWEST CORNER OF TRACT L-1-C-2. THE POND WILL THEN DRAIN INTO THE EXISTING STORM DRAIN IN UNSER BOULEVARD AT A RATE EQUIVALENT TO THE HISTORIC RUNOFF RATE. THE STORM DRAIN SYSTEM IN UNSER HAS ENOUGH CAPACITY TO ADEQUATELY DRAIN THIS SITE. THE STANDPIPE IN THE POND WILL SERVE AS A CLEAN WATER STRUCTURE AS WELL AS A WEIR AND WILL BE CONNECTED TO THE TYPE A INLET THAT IS ADJACENT TO THIS PROPERTY VIA A 12 INCH STORM DRAIN LINE. THERE WILL BE A WATER BLOCK INSTALLED AT BLUEWATER SUCH THAT THE RUNOFF IS ALL DIRECTED TO THE POND. THE SITE IS NOT WITHIN A 100 YEAR FLOODPLAIN.

Benchmark

PROJECT BENCHMARK ACS 9-K10

- ACS 9-K10X = 358,184.87
- Y = 1,485,554.99
- ELEV = 5114.990

LOCAL BENCHMARK

SOUTHEAST CORNER OF PROPERTY BEING A 5/8" REBAR WITH CAP

ELEV = 5114.44

Legend

	EXISTING CONTOUR
71	PROPOSED CONTOUR
	BASIN BOUNDARY
	DIRECTION OF FLOW
73.16	PROPOSED SPOT ELEV
TC	TOP OF CURB
FL	FLOW LINE

SO-19 FORM

TOP OF WALL

BOTTOM OF WALL

NOTICE TO CONTRACTOR

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED WITHIN THE CITY RIGHT-OF-WAY SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986.
- 3. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990, FOR LOCATION OF EXISTING UTILITIES.
- 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- 5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- 6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER SERVED.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- O TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- O SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- O IF CURB IS DEFRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED, INSPECTED AND APPROVED PRIOR TO FINAL ACCEPTANCE.

APPROVALS	ENGINEERS	DATE	
A.C.E./DESIGN			
INSPECTOR			
A.C.E./FIELD			

Engineer's Statement

I, the Engineer of record, certify that I have personally visited the site and the existing grades and contours depicted on this plan match what presently exists at the present location

Roni G. Booth, NMPE# 5853

Keyed Notes

FF = 20.50

ACS "9-K10" X-358,184.87

G-G=0.99967843

Δ& - 00°16′21″

NAD 1927 CENTRAL ZONE

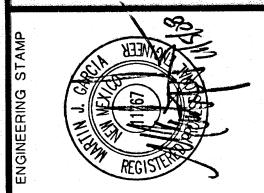
ELEX=\$114.990

(NAVD29)

GRADING PLAN

SCALE: 1" = 40'

- INSTALL 1 FT. SIDEWALK CULVERT FOR DRAINAGE.
- 2. PROVIDE 1 FT. OPENING IN CURB FOR DRAINAGE.
- 3. INSTALL 2 FT. SIDEWALK CULVERT FOR DRAINAGE.
- 4. CONNECT NEW 12" STORM DRAIN LINE TO EXISTING STORM DRAIN INLET.
- 5. INSTALL NEW 12" DIAMETER STAND PIPE.



DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY ALL
EXISTING CONDITIONS AND
DIMENSIONS- NOTIFY
ENGINEER/ARCHITECT OF ANY
DISCREPANCIES PRIOR TO
BEGINNING CONSTRUCTION

THESE DRAWINGS AS
INSTRUMENTS OF SERVICE
REMAIN THE PROPERTY OF THE
ENGINEER. ANY CHANGES,
PUBLICATION OR UNAUTHORIZED
USE IS PROHIBITED UNLESS
EXPRESSLY APPROVED BY THE
ENGINEER.
© 2008

TRACTS L-1-C-1 & L-1-C-2
UNSER BLVD & BLUEWATER ROAD
GRADING PLAN
ALBUQUERQUE, NM

PROJECT NUMBER: 28130 DATE: NOVEMBER 5, 20
DESIGNED BY: R BOOTH
DRAWN BY: N GARCIA
CHECKED BY: M GARCIA

GRADING PLAN

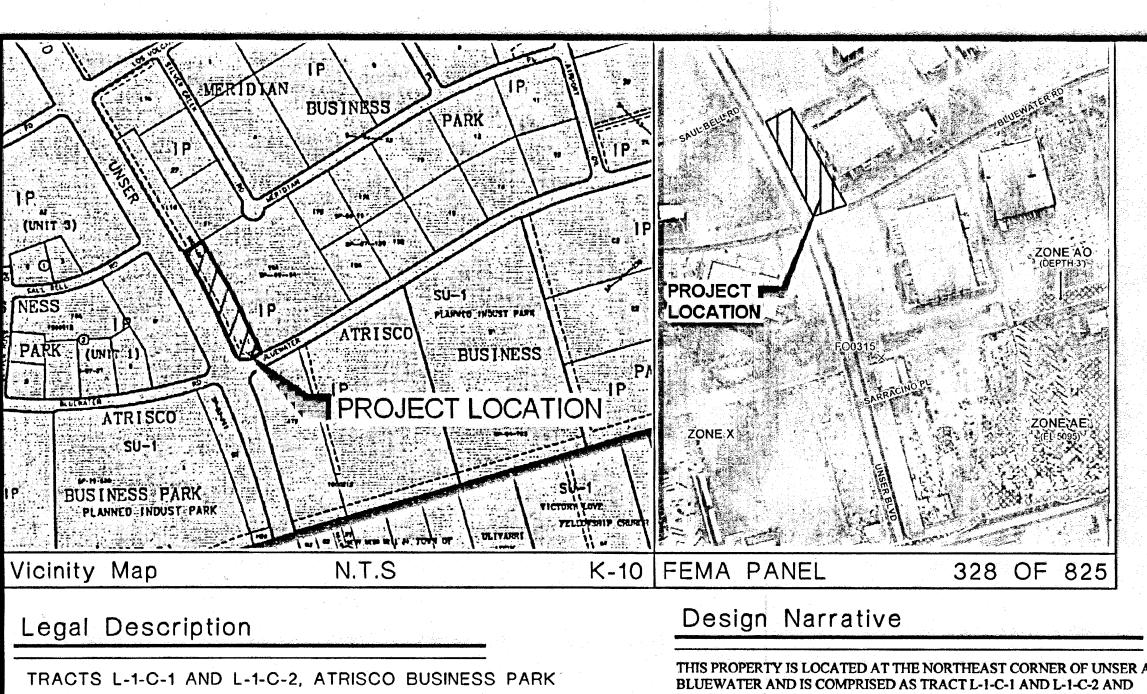
C-101

SHEET TITLE

SHEET 1 of 1

NOV C 6 2208

HYDROLOGY —SECTION



Drainage Calculations

Hydrology Calculations	TRACT	L-1-C-1		
Date: November 11, 2003				
DPM - Section 22.2				
Volume 2, January 1993				
Precipitation Zone	1			
100 Year Storm Depth, P (360)	2.2			
100 year Storm Depth, P (10 day)	3.67			
Treatment Area	Α	В	С	D
Excess Precipitation Factors	0.44	0.67	0.99	1.97
Peak Discharge Factors	1.29	2.03	2.87	4.37
Land Treatment Area	Acres	Existing	Proposed	·
Type "D" (Roof)		0.00	0.89	
Type "C" (Unpaved Roadway)		0.00	0.00	
Type "B" (Irrigated Lawns)		0.00	0.24	
Type "A" (Undeveloped)		1.13	0.00	
Total (Acres)		1.13	1.13	
Excess Precipitaion(in)		0.44	1.69	
Volume (100), cf		1804.84	6948.18	
Volume (10),cf		1209.24	4655.28	
Volume (100,10 day), cf		1804.84	11697.31	
Q (100), cfs		1.46	4.38	
Q (10), cfs		0.98	2.93	

Hydrology Calculations	TRACT	L-1-C-2		
Date: November 11, 2003		- Printer Control		
DPM - Section 22.2				
Volume 2, January 1993				
Precipitation Zone	1			
100 Year Storm Depth, P (360)	2.2			er eine er
100 year Storm Depth, P (10 day)	3.67			
To show and A was	<u> </u>	В	С	
Treatment Area	A 0.44	0.67	0.99	1.97
Excess Precipitation Factors				4.37
Peak Discharge Factors	1.29	2.03	2.87	4.3
Land Treatment Area	Acres	Existing	Proposed	
Type "D" (Roof)		0.00	0.50	
Type "C" (Unpaved Roadway)		0.00	0.00	
Type "B" (Irrigated Lawns)		0.00	0.14	
Type "A" (Undeveloped)		0.64	0.00	
Total (Acres)		0.64	0.64	
Excess Precipitaion(in)		0.44	1.69	
Volume (100), cf		1022.21	3916.04	**************************************
Volume (10),cf		684.88	2623.75	
Volume (100,10 day), cf		1022.21	6584.09	
Q (100), cfs		0.83	2.47	
Q (10), cfs		0.55	1.65	

THIS PROPERTY IS LOCATED AT THE NORTHEAST CORNER OF UNSER AND EXISTING STORM DRAIN IN UNSER BOULEVARD AT A RATE 4.76 CFS VIA A PROPERTY. THERE WILL BE A WATER BLOCK INSTALLED AT BLUEWATER SUCH THAT THE RUNOFF IS ALL DIRECTED TO THE POND. THE POND WILL BE GRADED SUCH THAT IF IT OVERFLOWS, IT WILL DO SO TOWARDS UNSER BOULEVARD. THE SITE IS NOT WITHIN A 100 YEAR FLOODPLAIN.

Benchmark

ACS 9-K10 X = 358,184.87

Y = 1,485,554.99ELEV : 5114.990

LOCAL BENCHMARK
SOUTHEAST CORNER OF PROPERTY BEING A 5/8" REBAR WITH CAP

ELEV = 5114.44

Legend

	EXISTING CONTOUR
	PROPOSED CONTOUR
	BASIN BOUNDARY
	DIRECTION OF FLOW
73.16	PROPOSED SPOT ELEVATION
TC	TOP OF CURB
FL	FLOW LINE
TW	TOP OF WALL
BW	BOTTOM OF WALL

SO-19 FORM

NOTICE TO CONTRACTOR AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.

2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED WITHIN THE CITY

四日

INV_EL_5113.73 INV EL 5113.08

GRADING PLAN

SCALE: 1" = 40'

B.O.P ELEV 5114.00-W.S. ELEV 5115.35

ACS "9-K10" X=358,184.87

1,485,554.99 G-G=0.99967843 Δ& - 00°16'21"

NAD 1927 CENTRAL ZONE

ELEX=5114.990

- RIGHT-OF-WAY-SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH C.O.A. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986.

3. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990, FOR LOCATION OF EXISTING UTILITIES.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.

6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER SERVED.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

O ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO

O BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.

O TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER. O SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

O IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.

ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED, INSPECTED AND APPROVED PRIOR TO FINAL ACCEPTANCE.

The second secon			- 18
APPROVALS	ENGINEERS	DATE	
A.C.E./DESIGN			
INSPECTOR			
A.C.E./FIELD			
			1

Engineer's Statement

I, the Engineer of record, certify that have personally visited the site and the existing grades and contours depicted on this plan match what presently exists at the present location

Roni G. Booth, NMPE# 5853



INSTALL 1 FT. SIDEWALK CULVERT FOR

DRAINAGE.

Keyed Notes

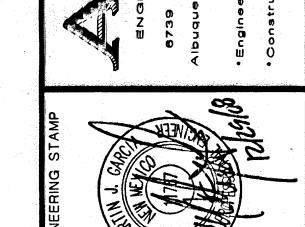
DRAINAGE.

3. INSTALL 2 FT. SIDEWALK CULVERT FOR

4. CONNECT NEW 12" HDPE STORM DRAIN LINE TO EXISTING STORM DRAIN INLET. MAINTAIN 1% SLOPE.

5. INSTALL NEW 2'x2' AREA DRAIN WITH GRATE

6. CORE HOLE INTO BACK OF INLET, CONNECT 12" STORM DRAIN AND GROUT PER C.O.A STANDARDS.



DO NOT SCALE DRAWINGS **CONTRACTOR TO VERIFY ALI EXISTING CONDITIONS AND DIMENSIONS- NOTIFY** ENGINEER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO **BEGINNING CONSTRUCTION**

INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF TH ENGINEER. ANY CHANGES, UBLICATION OR UNAUTHORIZE USE IS PROHIBITED UNLESS EXPRESSLY APPROVED BY THE ENGINEER. © 2008

RACT BLV GI ALB

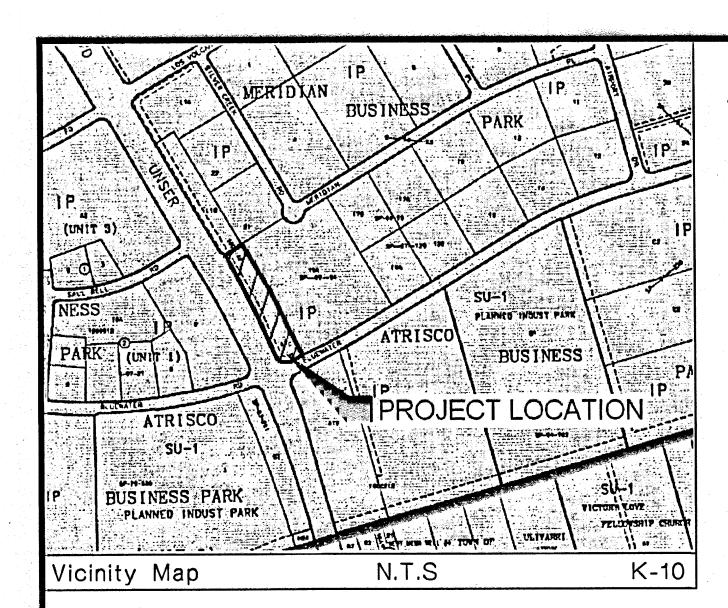
SHEET TITLE

GRADING PLAN

C-101

NORTH

SHEET 1 of



Legal Description

TRACTS L-1-C-1 AND L-1-C-2, ATRISCO BUSINESS PARK

Drainage Calculations

Hydrology Calculations	TRACT	L-1-C-1		
Date: November 11, 2003		·		
DPM - Section 22.2				
Volume 2, January 1993				
Description Zeno	1			
Precipitation Zone	2.2			ing ngi ngangan dan pinangan ngi gambajan
100 Year Storm Depth, P (360)				
100 year Storm Depth, P (10 day)	3.67			
Treatment Area	Α	В	С	D
	0.44	0.67	0.99	1.97
Excess Precipitation Factors	1.29	2.03	2.87	4.37
Peak Discharge Factors	7.29	2.03	2.01	4.31
	A a real	Culating	Proposed	
Land Treatment Area	Acres	Existing	Proposed	
Type "D" (Roof)		0.00	0.89	
Type "C" (Unpaved Roadway)		0.00	0.00	
Type "B" (Irrigated Lawns)		0.00	0.24	
Type "A" (Undeveloped)		1.13	0.00	<i>-</i>
Total (Acres)		1.13	1.13	
Excess Precipitaion(in)		0.44	1.69	
Volume (100), cf		1804.84	6948.18	
Volume (10),cf		1209.24	4655.28	
Volume (100,10 day), cf		1804.84	11697.31	
Q (100), cfs		1.46	4.38	THE PERSON NAMED IN
Q (10), cfs		0.98	2.93	
			T	
Hydrology Calculations	TRACT	L-1-C-2		
Date: November 11, 2003				
DPM - Section 22.2				المتحدد والمتحدد
Volume 2, January 1993				
Precipitation Zone	1			ing in ing marking dipolar in the special section of the special sec
100 Year Storm Depth, P (360)	2.2			
100 year Storm Depth, P (10 day)	3.67			
				nadasahan di andah da
Treatment Area	Α	В	С	D
Excess Precipitation Factors	0.44	0.67	0.99	1.97
Peak Discharge Factors	1.29	2.03	2.87	4.37
Land Treatment Area	Acres	Existing	Proposed	
Type "D" (Roof)	1	0.00	0.50	
	<u> </u>	0.00	0.00	
Type "C" (Unpaved Roadway)		0.00	0.14	
Type "B" (Irrigated Lawns)		0.64	0.00	***
Type "A" (Undeveloped)	7.	0.04	0.00	
Total (Acres)		0.64	0.64	
Excess Precipitaion(in)		0.44	1.69	
Volume (100), cf		1022.21	3916.04	
		684.88	2623.75	
Volume (10).cf	5		6584.09	
Volume (10),cf Volume (100.10 day), cf		1022.21	1 0007.00	
Volume (100,10 day), cf		1022.21 0.83	2.47	
	1	0.83 0.55		

Design Narrative

DRAINAGE NARRATIVE

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Benchmark

PROJECT BENCHMARK
ACS 9-K10
X = 358,184.87

ELEV = 5114.990

Y = 1,485,554.99

LOCAL BENCHMARK
SOUTHEAST CORNER OF PROPERTY BEING
A 5/8" REBAR WITH CAP

ELEV = 5114.44

Legend

PROPOSED CONTOUR

BASIN BOUNDARY

DIRECTION OF FLOW

73.16 PROPOSED SPOT ELEVATION

TC TOP OF CURB

EXISTING CONTOUR

TW TOP OF WALL

BW BOTTOM OF WALL

SO-19 FORM

NOTICE TO CONTRACTOR

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THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED O ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO

Engineer's Statement

exists at the present location

Roni G. Booth, NMPE# 5853

I, the Engineer of record, certify that

have personally visited the site and the existing grades and contours depicted on this plan match what presently

- O BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
- O TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- O SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- O IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED, INSPECTED AND APPROVED PRIOR TO FINAL ACCEPTANCE.

	APPROVALS	ENGINEERS	DATE			
	A.C.E./DESIGN					
*	INSPECTOR					
	A.C.E./FIELD					
	V1					

1. INSTALL 1 FT. SIDEWALK CULVERT FOR DRAINAGE.

Keyed Notes

2. PROVIDE 1 FT. OPENING IN CURB FOR DRAINAGE.

3. INSTALL 2 FT. SIDEWALK CULVERT FOR DRAINAGE.

4. CONNECT NEW 12" STORM DRAIN LINE TO EXISTING STORM DRAIN INLET.

5. INSTALL NEW 12" DIAMETER STAND PIPE.



DO NOT SCALE DRAWINGS
CONTRACTOR TO VERIFY ALL
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ENGINEER.

TRACTS L-1-C-1 & L-1-C-2
UNSER BLVD & BLUEWATER ROAD
GRADING PLAN
ALBUQUERQUE, NM

ACS "9-K10"

X=358,184.87

G-G=0.99967843

Δ& - 00°16'21"

NAD 1927 CENTRAL ZONE

ELEX=\$114.990

(NAVD29)

GRADING PLAN

SCALE: 1" = 40'

GRADING PLAN

0 40 80 NORTH

C-10
sheet 1 or

SHEET TITLE

C-101 R CELVED
NOV C 6 2008

HYDROLOGY SECTION