CITY OF ALBUQUERQUE

February 24, 2017



Richard J. Berry, Mayor

David Soule, P.E. Rio Grande Engineering. Po box 93924 Albuquerque, NM, 87199

RE: UNM Starbucks and Freddies

Grading and Drainage Plan

Engineer's Stamp Date 2-22-2017 (File: K16D075)

Dear Mr. David:

Based upon the information provided in your submittal received 2-23-2017, the above referenced Grading and Drainage Plan is approved for building permit.

Please attach a copy of this approved plan in the construction sets for Building Permit processing. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

PO Box 1293

If you have any questions, you can contact me at 924-3999.

Albuquerque

New Mexico 87103

www.cabq.gov

Shahab Biazar, P.E.

City Engineer, Planning Dept.
Development Review Services

MA/SB

Sincerely,



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2016)

DRB#: Legal Description: LOTS 22-24 BLOCK 18 UNIVE City Address: 2550 CENTRAL SE Applicant: MARK TEKIN Address: Phone#: Other Contact: RIO GRANDE ENGINEERING Address: PO BOX 93924, ALBUQUERQUE, NM 8719	Fax#:	
Legal Description: LOTS 22-24 BLOCK 18 UNIVER City Address: 2550 CENTRAL SE Applicant: MARK TEKIN Address: Phone#: The Contact: RIO GRANDE ENGINEERING Address: PO BOX 93924, ALBUQUERQUE, NM 8719	Fax#:	Contact: E-mail: Contact: DAVID SOULE
City Address: 2550 CENTRAL SE Applicant: MARK TEKIN Address: Phone#: PO BOX 93924, ALBUQUERQUE, NM 8719	Fax#:	E-mail: Contact: DAVID SOULE
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Address: PO BOX 93924, ALBUQUERQUE, NM 8719		
		E-mail: DAVID@RIOGRANDEENGINEERINGC.OM
Phone#: 505.321.9099	Fax#: 505.872.0999	E-mail: DAVID@RIOGRANDEENGINEERINGC.OM
Check all that Apply: DEPARTMENT: X HYDROLOGY/ DRAINAGE TRAFFIC/ TRANSPORTATION TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN X DRAINAGE MASTER PLAN TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) OTHER (SPECIFY) PRE-DESIGN MEETING?	DE PRELIMIN SITE PLATE SITE PLATE FINAL PLATE FOUNDATE OF APICE OF	PERMIT APPROVAL 3/ PAD CERTIFICATION DER APPROVAL
IS THIS A RESUBMITTAL?: X Yes No DATE SUBMITTED: 2/22/17	OTHER (S	SPECIFY)
***************************************		· · · · · · · · · · · · · · · · · · ·

CITY OF ALBUQUERQUE

February 10, 2017



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David Soule, P.E.
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2. Provide narrative for offsite flow.

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Shahab Biazar, P.E.

City Engineer, Planning Dept.

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MA/SB

DRAINAGE REPORT

For

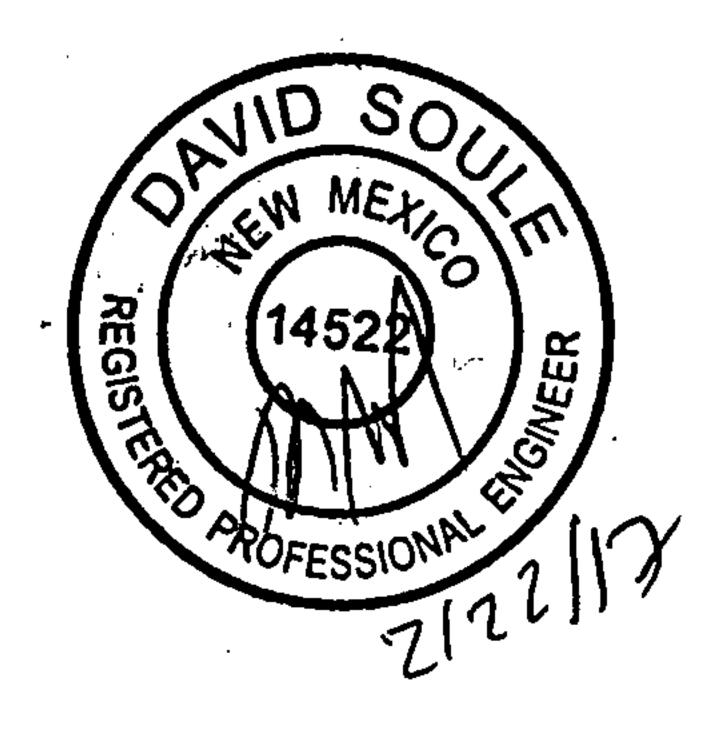
STARBUCKS/FREDDIES 2550 CENTRAL SE Albuquerque, New Mexico

Prepared by

Rio Grande Engineering PO Box 93924 Albuquerque, New Mexico 87199



JANUARY 2017



David Soule P.E. No. 14522

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PURPOSE

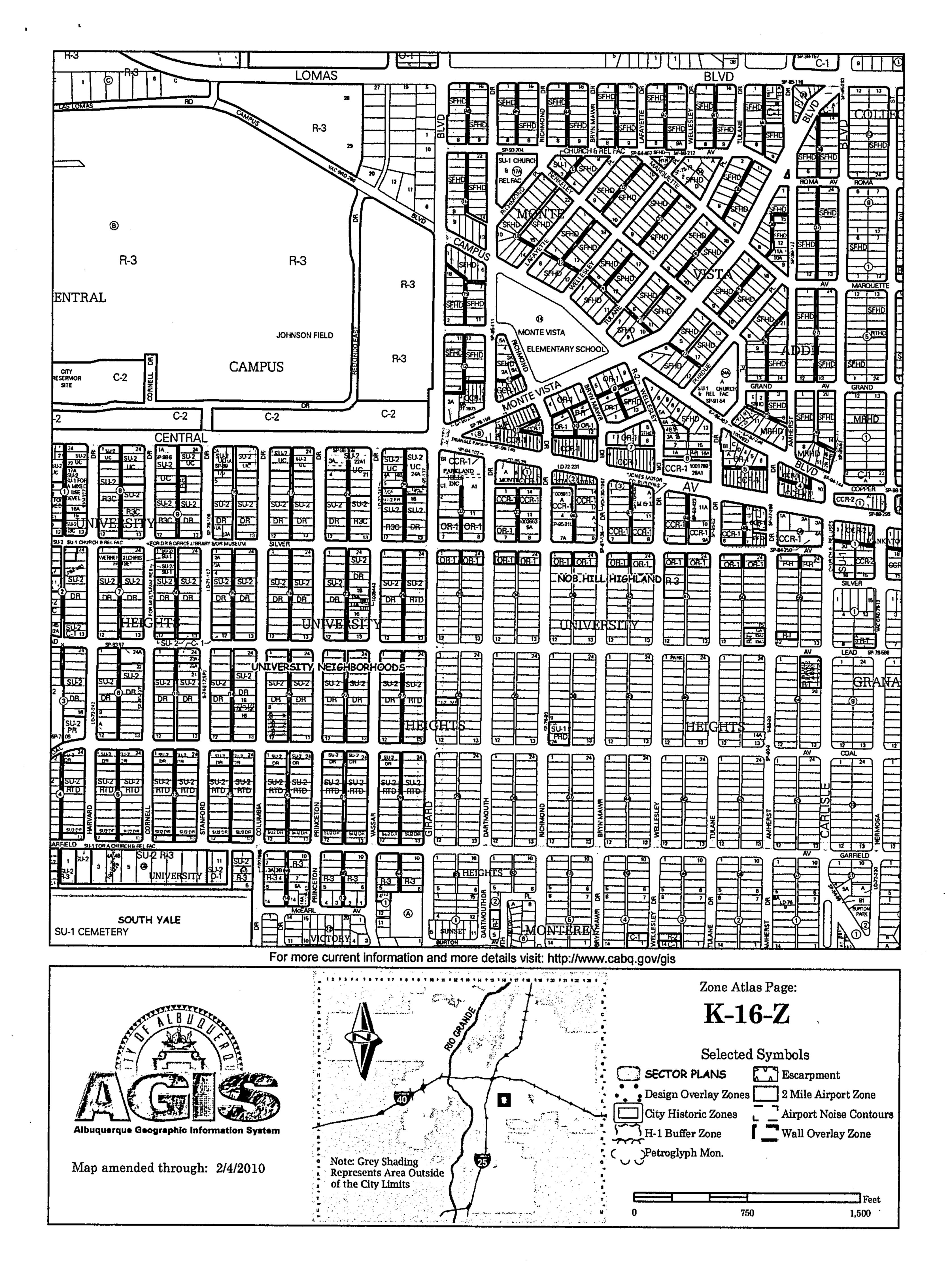
The purpose of this report is to provide the Drainage Management Plan for the development of a 0.48 acre restaurant redevelopment project. This plan was prepared in accordance with the City of Albuquerque design regulations, utilizing the City of Albuquerque's Development Process Manual drainage guidelines. This report will demonstrate that the grading does not adversely affect the surrounding properties, nor the upstream or downstream facilities.

INTRODUCTION

The subject of this report, as shown on the Exhibit A, is a 0.48-acre parcel of land located on the southwest corner of Central Avenue and Columbia Drive Southeast. The legal description of this site is Lots 22-24, Block 18, University Heights Addition. As shown on FIRM map35001C0353H, the entire site is located within Flood Zone X. The site is currently a gas station. The entire site is paved, with very little landscaping the site is located in a fully developed watershed where the entire supporting drainage infrastructure is completed.

EXISTING CONDITIONS

The site is currently a developed gas station. As shown in appendix A, the site is paved and has very little landscaping. The site currently discharges 2.22 cfs as sheet flow to the west. The flow enters a public alley and discharges to Central Avenue. Due to water block on Columbia and Central, and grades of the surrounding properties, no upland flows affect this site. All downstream improvements are in place and maintained by the city of Albuquerque.



PROPOSED CONDITIONS

The proposed improvements consist of demolishing the entire site and the construction of a new 5,500 square foot building with its associated parking and landscaping. As shown in Appendix A, The site is to be graded such that there are three drainage basins. Basin A contains the building and the southerly half of the site, and discharges to the parking field and drains 1.51 cfs as concentrated flow west to the alley. Basin B contains several parking spaces and the westerly sidewalk, and drains 0.47cfs as sheet flow to the alley. Basin C contains the front patio and building overhangs and discharges 0.17 cfs as sheet flow to central. The dumpster will have an area drain that discharges to the sanitary sewer upstream of a grease interceptor. The site will capture the first flush volume of 507 cubic feet by installing an inlet and mc 3500 infiltrator system at the outfall flow line of basin A. The system specifics are found in appendix B.

SUMMARY AND RECOMMENDATIONS

This project is a redevelopment of an existing fully developed site. The proposed developed conditions from this site will capture 809 cubic feet of the first flush which is greater than the required 507 cubic feet. The site will discharge 2.15 cfs during the 100-year, 6-hour design storm, which is less than the 2.22 cfs the site currently discharges. The site will discharge to the existing alley and tie to the existing grades at the edge of the ally. The development of this site will not negatively impact the upstream nor down stream facilities. Since this site does not exceed 1 acre, erosion and sediment Control Plan should not be required prior to any construction activity.

APPENDIX A SITE HYDROLOGY

Weighted E Method

2550 CENTRAL SE

Existing Developed Basins

		· <u>-</u>					·				100-Year, 6-hr	•		10-day
Basin	Area	Area	Treatment	A	Treatme	nt B	Treatm	ent C	Treatme	ent D	Weighted E	Volume	Flow	Volume
	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac∹ft)	cfs	(ac-ft)
EXISTING	21117	0.485	0%	0	2.0%	0.010	5.0%	0.02424	93.0%	0.451	2.044	0.083	2.22	0.143
PROPOSED BASIN A	14912.00	0.342	0%	0	5.0%	0.017	10.0%	0.03423	85.0%	0.291	1.954	0.056	1.51	0.095
PROPOSED BASIN B	4661.00	0.107	0%	0	0.0%	0.000	21.0%	0.02247	79.0%	0.085	1.912	0.017	0.47	0.028
PROPOSED BASIN C	1544.00	0.035	0%	0	0.0%	0.000	0.0%	0	100.0%	0.035	2.120	0.006	0.17	0.011
PROPOSED	21117.00	0.485	0%	0	3.5%	0.017117	11.7%	0.0567	84.8%	0.410959	1.957	0.079	2.15	0.134
OMPARISON(onsite historic	cal to proposed	i)			2%	0.01	7%	0.03	-8%	-0.04	·	-0.076	-0.07	-0.132

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

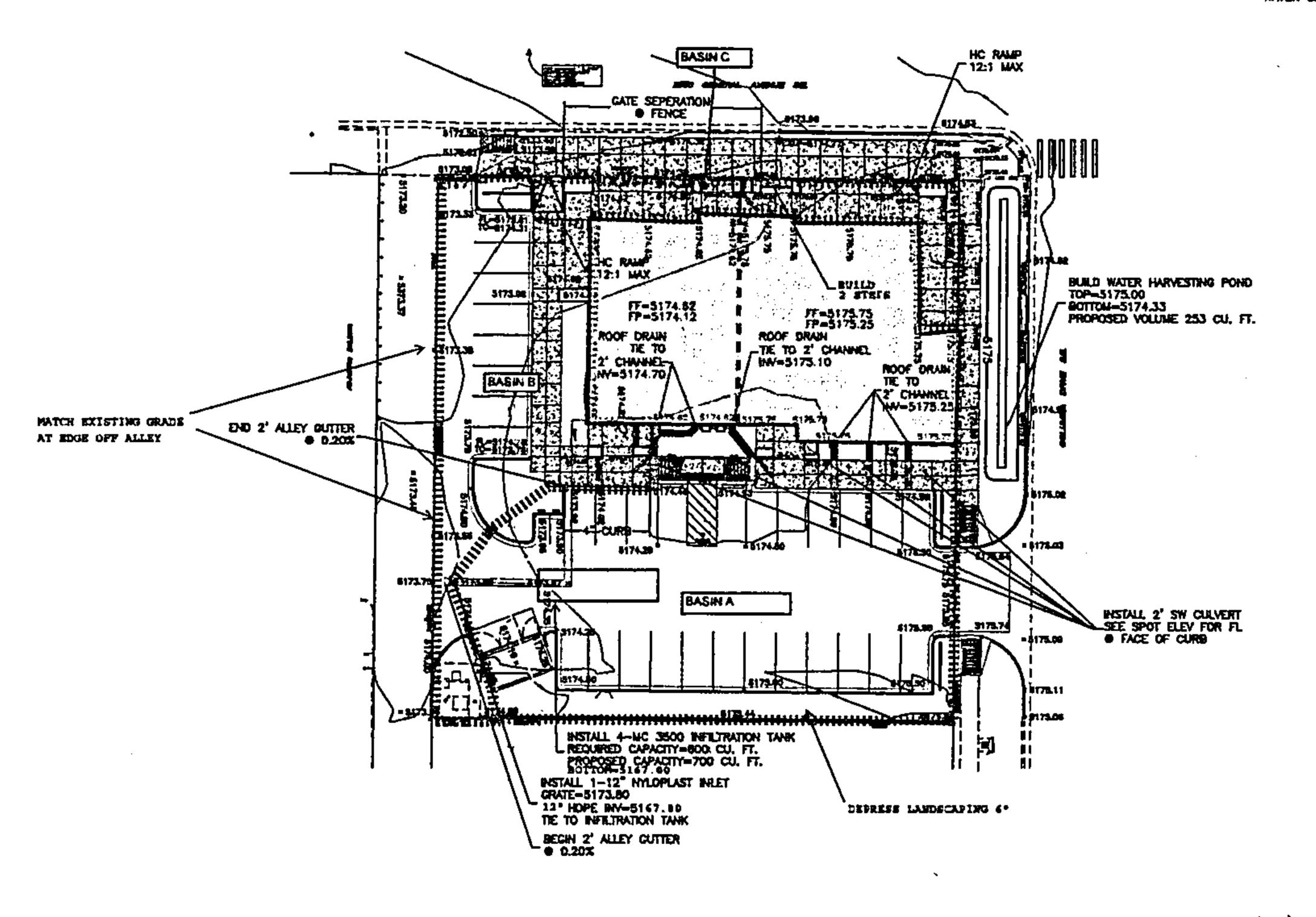
Where for 100-year, 6-hour storm (zone 2)

Qa= 1.56 Ea = 0.53Eb= 0.78 Qb= 2.28 Ec= 1.13 Qc = 3.14Ed= 2.12 Qd = 4.7

FIRST FLUSH REQUIREMENT 507.2061 CUBIC FEET REQUIRED 809 CUBIC FEET PROVIDED

NARRATIVE

THIS SITE IS A REDEVELOPMENT OF AN EXISTING SITE. THE EXISTING SITE DISCAHRGES 2.22 CFS TO A PUBLIC ALLEY. THE PROPOSED DEVELOPMENT GENERATES LESS THAN EXISTING FLOW RATES. THE FIRST FLUSH VOLUME WILL BE RETAINED BY THE PLACEMENT OF A INFILTRATOR SYSTEM AT THE OUTFALL FLOW LINE. THE SITE MATCHES THE EXIST! DRAINAGE PATTERNS. AND WILL TIE TO THE EXISTING ALLE NO UPLAND FLOWS IMPACT THE PROPERTY, DUE TO WATER CURB AND GUTTER AND WATER BLOCKS AT DRIVEWAYS



EROSION CONTROL NOTES:

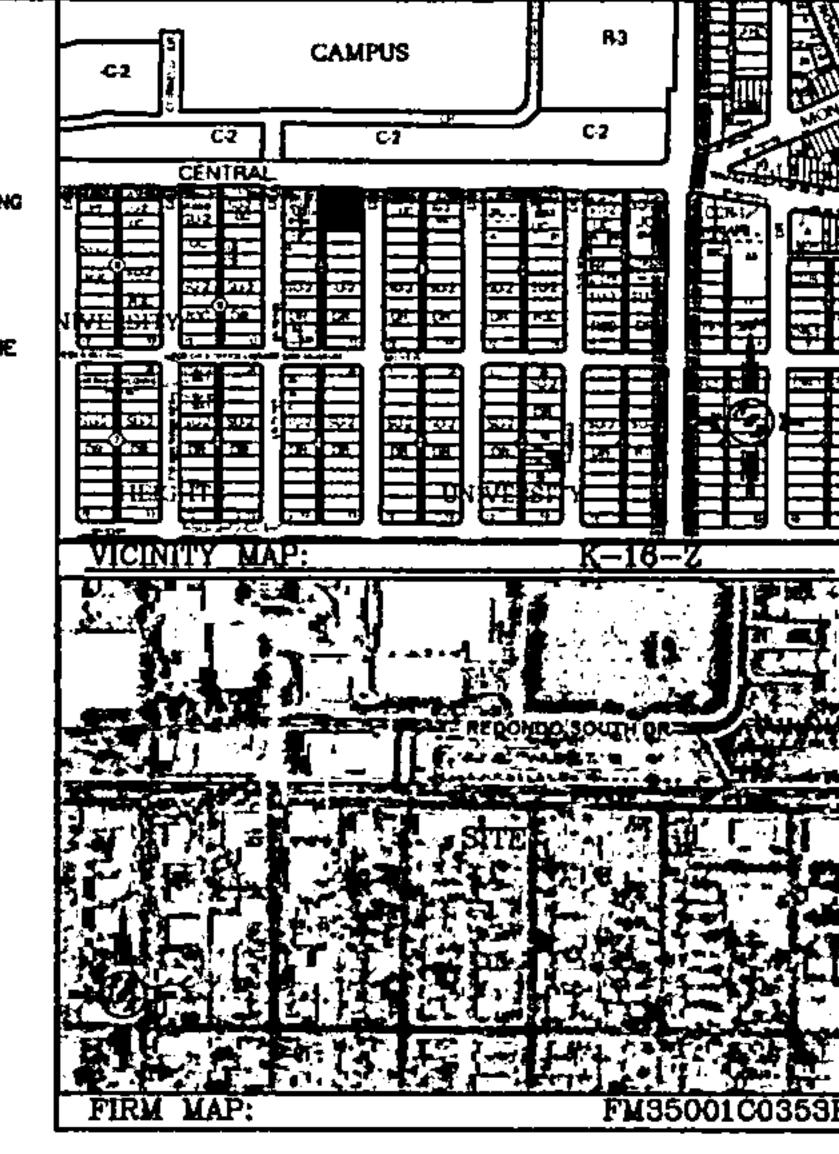
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



LEGAL DESCRIPTION:

LOT 22, 23, 24, BLOCK 18, UNIVERSITY HEIGHTS ADDITION

1. ALL SPOT ELEVATIONS REPRESENT FLOWLING ELEVATION UNLESS OTHERWISE

2. ALL CUMB AND CUTTER TO 8" HEADER UNLESS OTHERWISE.

3. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS,

4. ALL NEW PAYING SHALL BE 8" PCC OVER 8" SUBGRADE PREPARATION IN CONFORMANCE TO ACI 330R-08. UNLESS OTHERWISE NOTED.

5. ANY CURBS OR PAVEMENT NEGATIVELY REPACTED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.

e. All site work shall conform to city of albuquerque standards for public works construction edition 9

LEGEND

---- EXITING CONTOUR SHIS--- -- EXISTING INDEX CONTOUR - PROPOSED CONTOUR PROPOSED INDEX CONTOUR SLOPE TIE EXISTING SPOT ELEVATION PROPOSED SPOT ELEVATION ----- BOUNDARY ---- CENTERLINE - ROCHT-OF-WAY EDISTING CURB AND CUTTER PROPOSED SIDEWALK -- PROPOSED SCREEN WALL NEW CONCRETE SIDEWALK



GRAPHIC SCALE

SCALE: 1"=20"

DAND SOULE P.E. #14522



DATE 12-27-17 GRADING AND DRAINAGE PLAN 27700 | 1000 | 1-10-17 SHEET 🦸 Nio Crrande 1906 COUNT, MOUE SE SUITE SOI ALBUQUERQUE, INV STYON (SOS) E72-0000 JOB / 21702

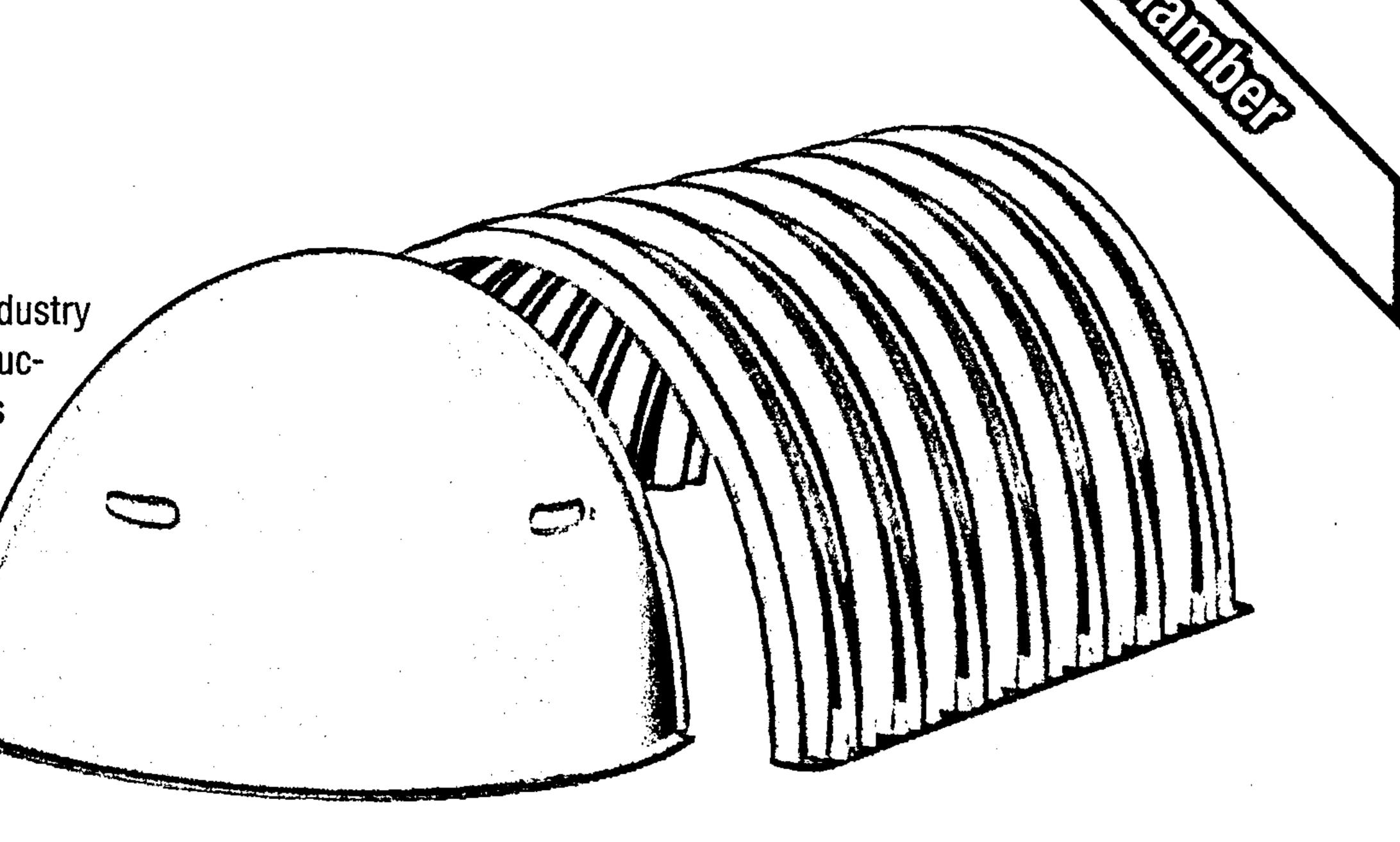
CAUTION: EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

APPENDIX B INFILTRATOR TANK SPECIFICATIONS



StormTech MC-3500 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots thus maximizing land usage for commercial and municipal applications.



StormTech MC-3500 Chamber (not to scale)

Nominal Chamber Specifications

Size (L x W x H)	90° (2286 mm) x 77° (1956 mm) x 45° (1143 mm)
Chamber Storage	109.9 ft³ (3.11 m³)
Min. Installed Storage*	178.9 ft³ (5.06 m³)
Weight	134 lbs (60.8 kg)

^{*} This assumes a minimum of 12" (305 mm) of stone above, 9" (229 mm) of stone below chambers, 9" (229 mm) row spacing, and 40% stone porosity.

Shipping

15 chambers/pallet

16 end caps/pallet

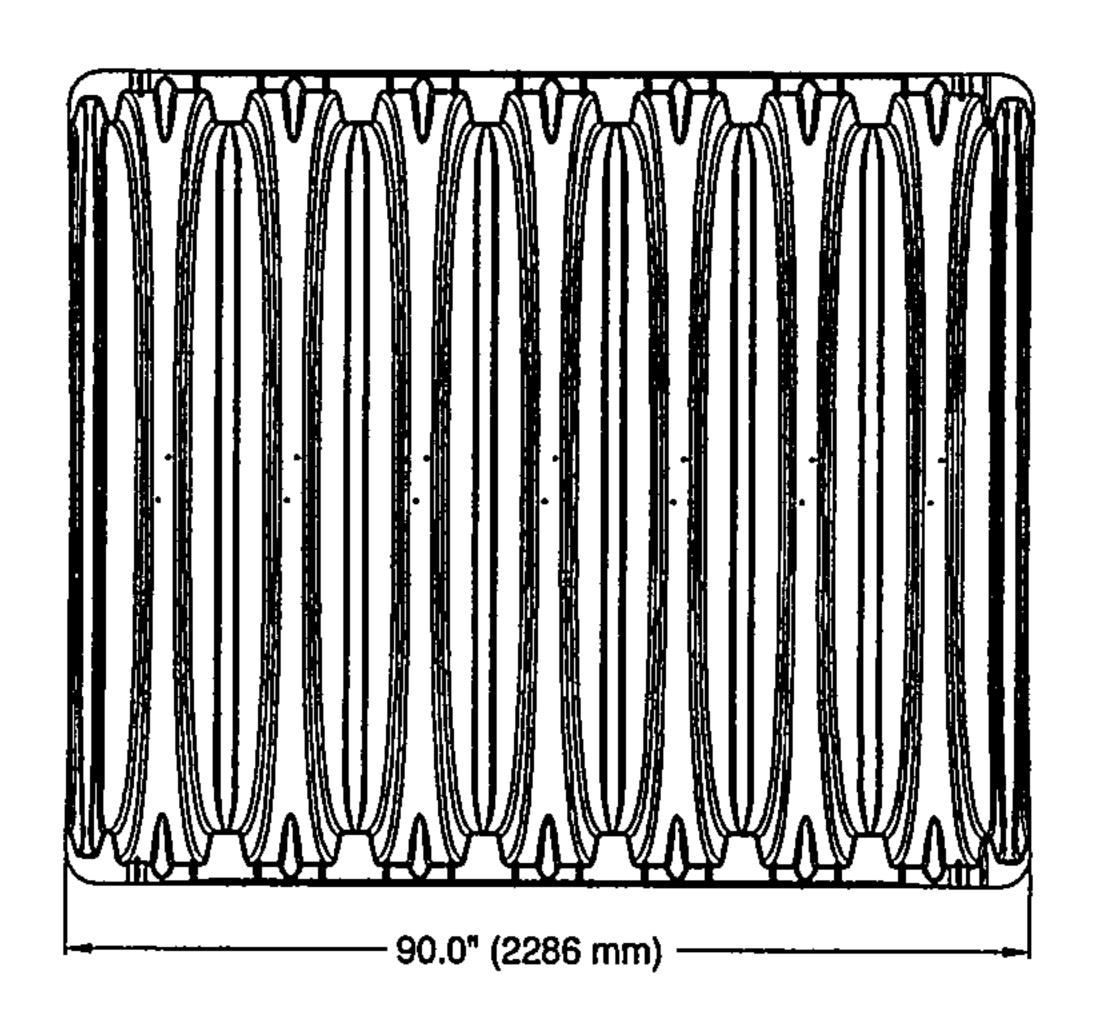
7 pallets/truck

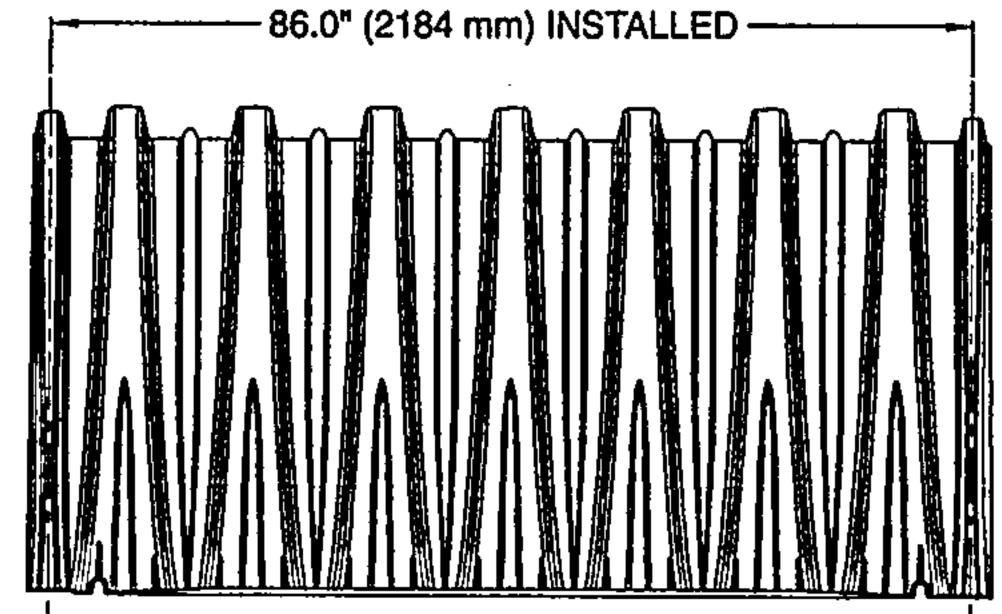
StormTech MC-3500 End Cap (not to scale)

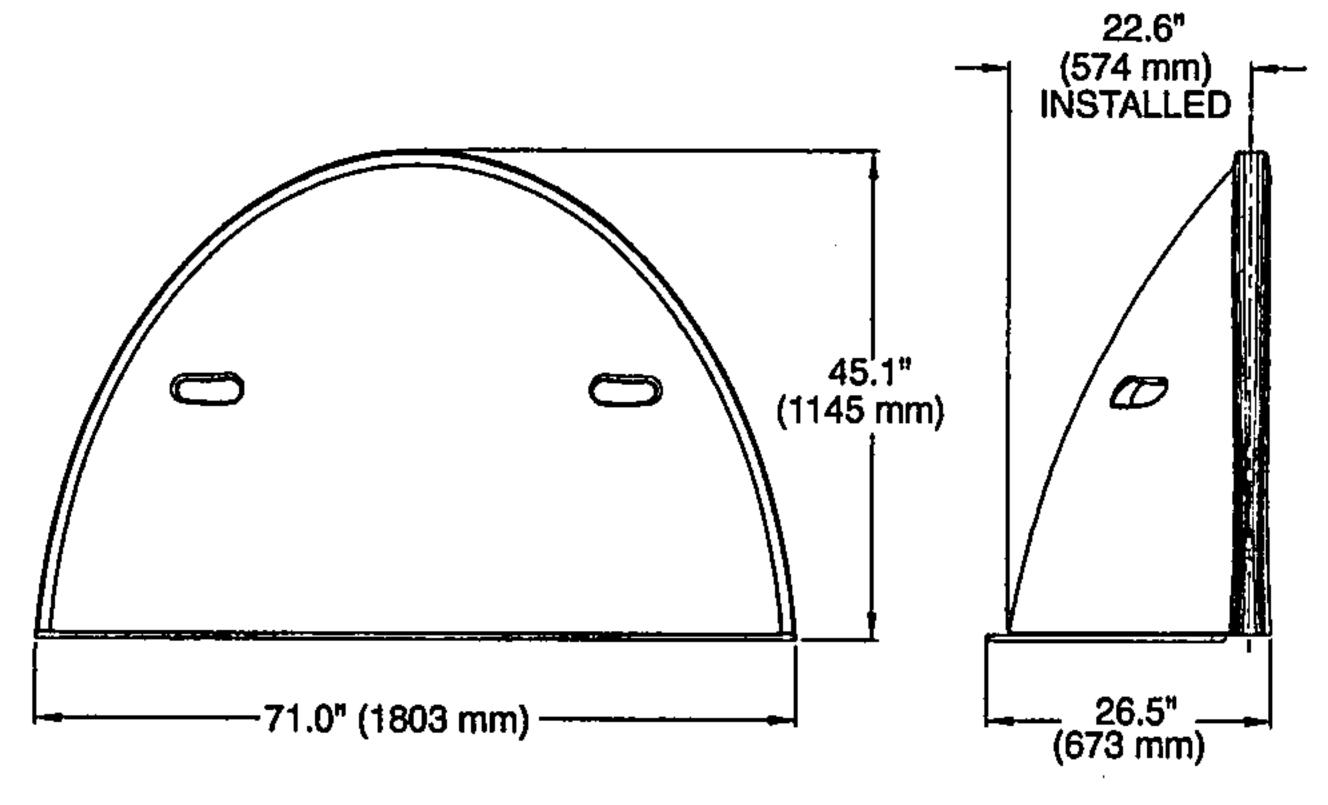
Nominal End Cap Specifications

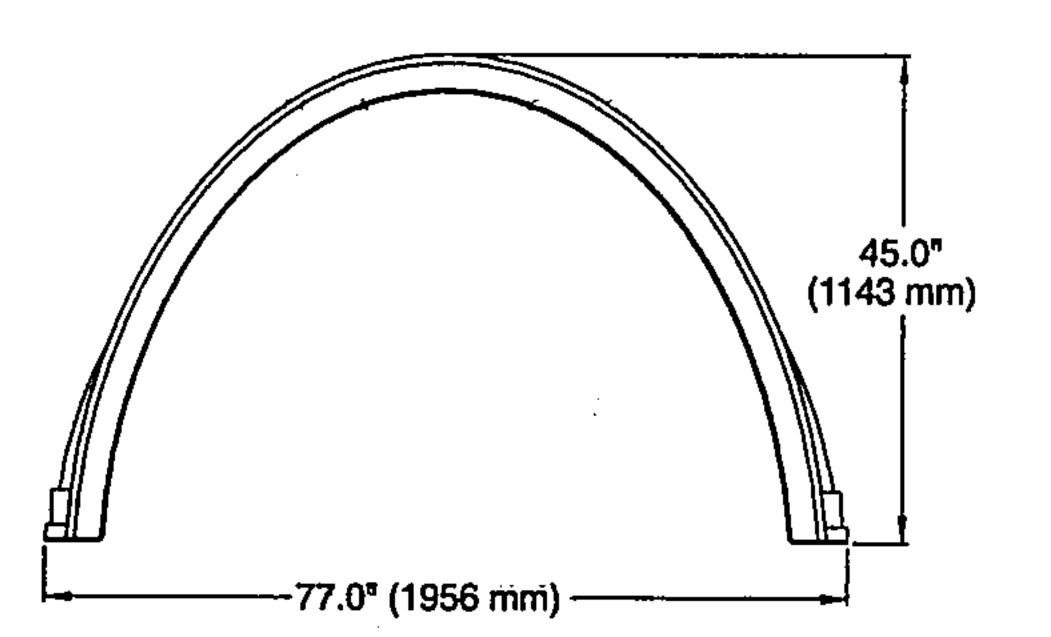
Size (L x W x H)	26.5' (673 mm) x 71" (1803 mm) x 45.1" (1145 mm)
End Cap Storage	15.6 ft³ (0.44 m³)
Min. Installed Storage*	46.9 ft³ (1.33 m³)
Weight	43 lbs (19.5 kg)

^{*}This assumes a minimum of 12" (305 mm) of stone above, 9" (229 mm) of stone below, 9" (229 mm) row spacing, 6" (152 mm) of stone perimeter, and 40% stone porosity.











Storage Volume Per Chamber/End Cap ft³ (m³)

	Bare Unit Storage	Volume Stone Foundation								
	ft³ (m³)	9 (229)	12 (305)	15 (381)	18 (457)					
MC-3500 Chamber	109.9 (3.11)	178.9 (5.06)	184.0 (5.21)	189.2 (5.36)	194.3 (5.5)					
MC-3500 End Cap	15.64 (0.44)	46.9 (1.33)	48.6 (1.38)	50.3 (1.43)	52.0 (1.47)					

NOTE: Assumes 9" (229 mm) row spacing, 40% stone porosity 12" (305 mm) stone above and includes the bare chamber/end cap volume. End Cap volume assumes 6" (152 mm) stone perimeter.

Volume of Excavation Per Chamber/End Cap in yd3 (m3)

	Stone			
	9 (229)	12 (305)	15 (381)	18 (45%)
MC-3500	12.4 (9.5)	12.8 (9.8)	13.3 (10.2)	13.8 (10.5)
End Cap	4.1 (3.1)	4.3 (3.3)	4.4 (3.4)	4.6 (3.5)

NOTE: Assumes 9" (229 mm) of separation between chamber rows and 24" (610 mm) of cover. The volume of excavation will vary as the depth of cover increases.

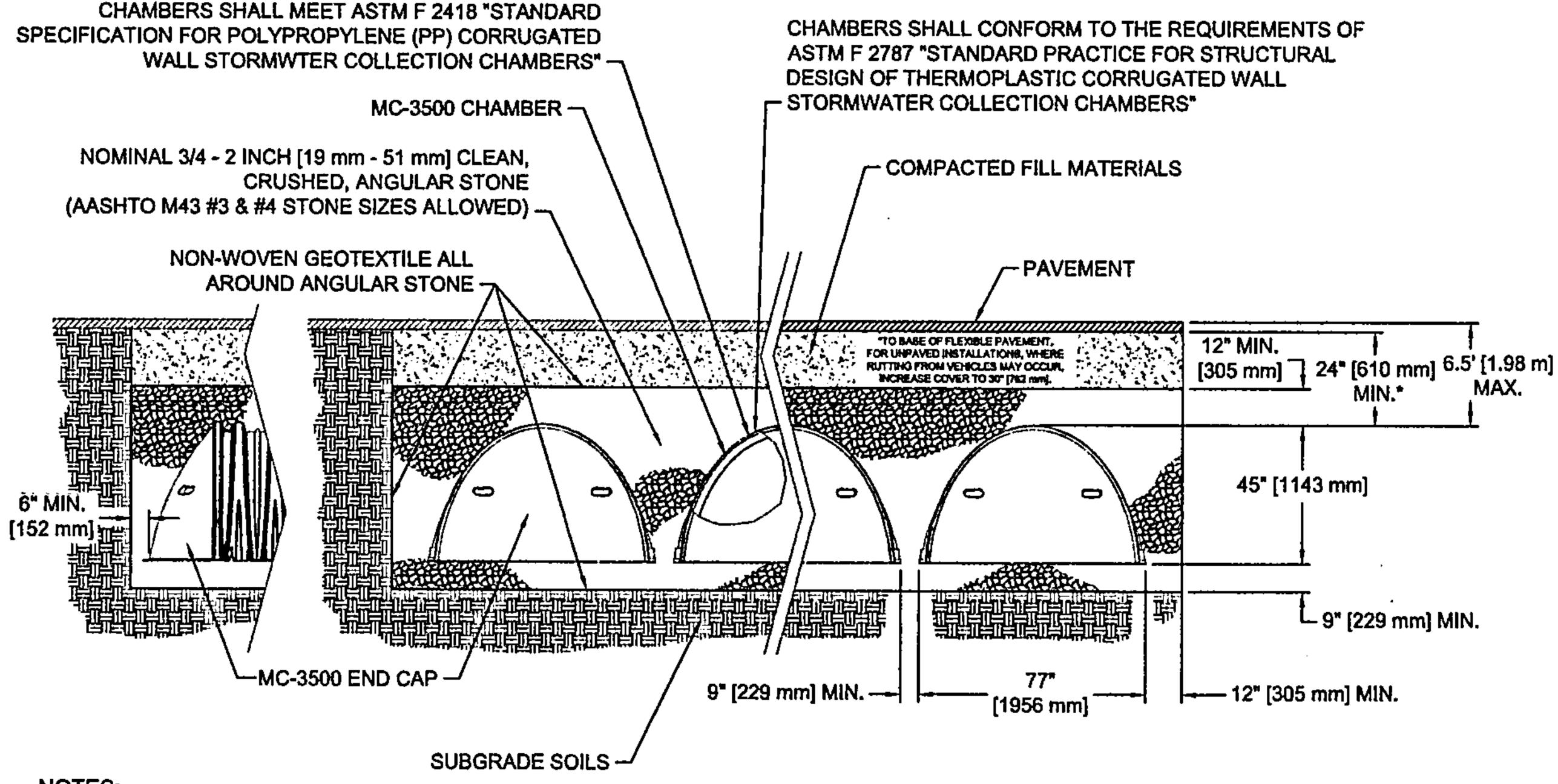
Amount of Stone Per Chamber

CNOLICI1	Store Foundation Depth										
tons (yd³)	9 in.	12 in.	15 in.	18 in.							
MC-3500	9.1 (6.4)	9.7 (6.9)	10.4 (7.3)	11.1 (7.8)							
End Cap	4.1 (2.9)	4.3 (3.1)	4.6 (3.2)	4.8 (3.4)							
METRIC kg (m³)	229 mm	305 mm	381 mm	457 mm							
MC-3500	8220 (4.9)	8831 (5.3)	9443 (5.6)	10054 (6.0)							
End Cap	3729 (2.2)	3933 (2.3)	4136 (2.5)	4339 (2.6)							

NOTE: Assumes 🍂 (305 mm) of stone above, and 9" (229 mm) between chambers/end cars.

stone treatement

General Cross Section



NOTES:

- THIS CROSS SECTION PROVIDES GENERAL INFORMATION FOR THE MC-3500 CHAMBER. STORMTECH MC-3500 CHAMBERS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE MC-3500 DESIGN MANUAL AND MC-3500 CONSTRUCTION GUIDE.
- PROPERLY INSTALLED MC-3500 CHAMBERS PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR EARTH AND LIVE LOADS WITH CONSIDERATION FOR IMPACT AND MULTIPLE PRESENCES.
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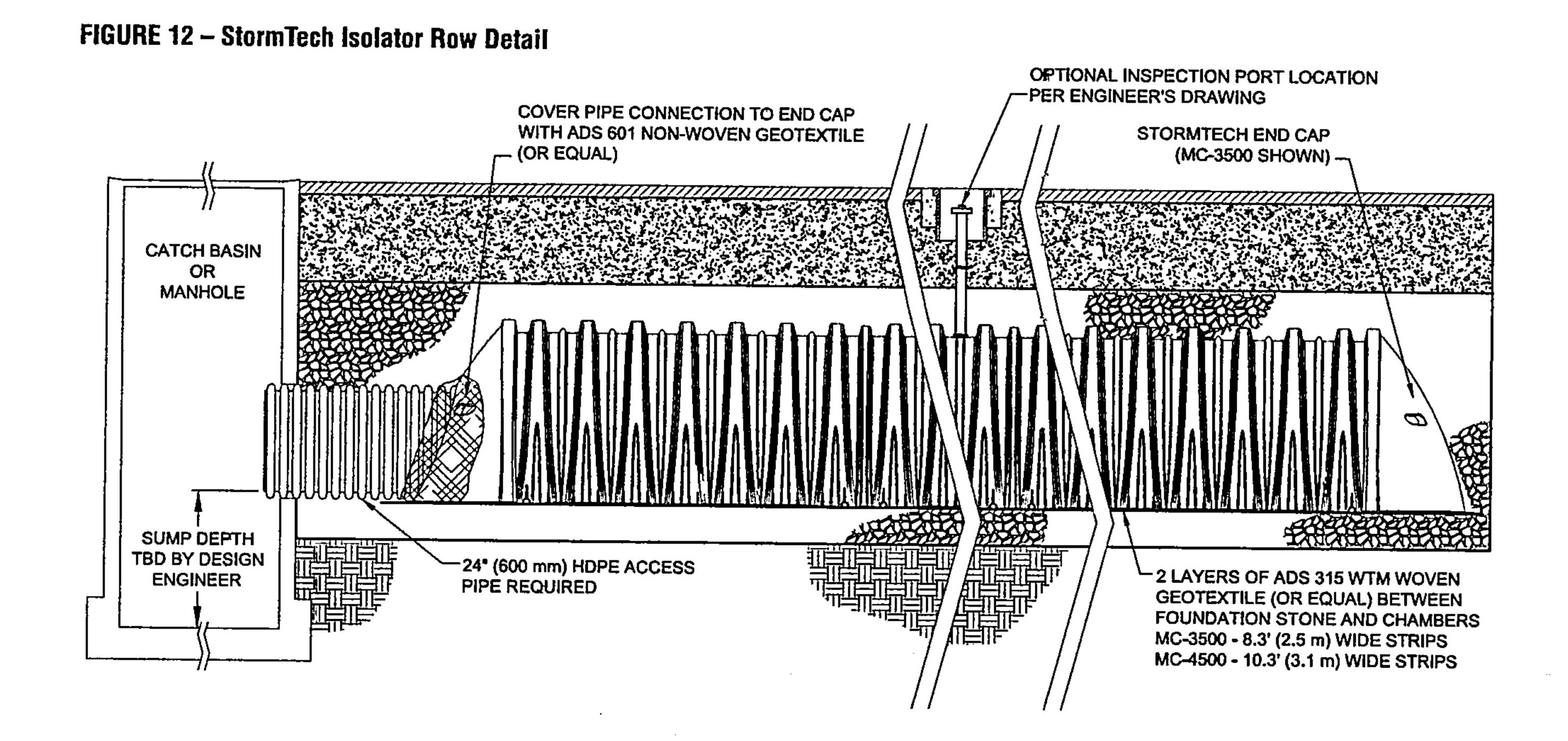
70 Inwood Road, Suite 3 Rocky Hill Connecticut | 06067 860.529.8188 | 888.892.2694 | fax 866.328.8401 | fax 860-529-8040 | www.stormtech.com

ADS "Terms and Conditions of Sale" are available on the ADS website, www.ads-pipe.com. Advanced Drainage Systems, the ADS logo, and the green stripe are registered trademarks of Advanced Drainage Systems. StormTech® is a registered trademark of StormTech, Inc.

The Green Building Council Member logo is a registered trademark of the U.S. Green Building Council.

S150909 06/12





CITY OF ALBUQUERQUE

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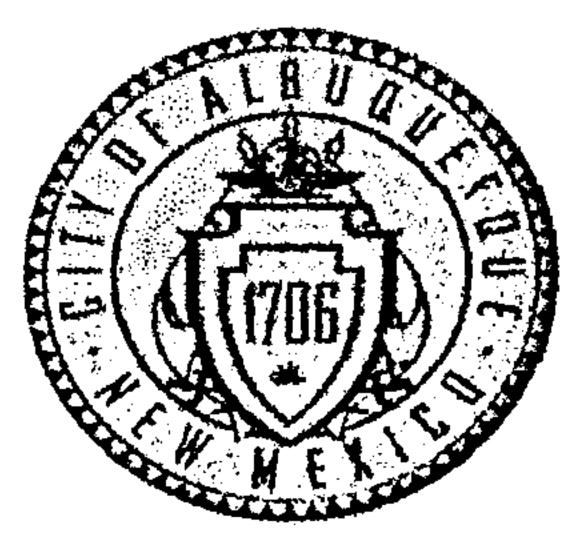
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MA/SB



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Planning Department

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DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2016)

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DRB#:							
Legal Description: LOTS 22-24 BLOCK	18 UNIVERSITY HEIGHT	rs addition					
City Address: 2550 CENTRAL SE							
Applicant: MARK TEKIN			Contact:	<u></u>			
Address:							
Phone#:	Fax#:	 	E-mail: _				
Other Contact: RIO GRANDE ENGINEER	ING		Contact:	DAVID SOULE			
Address: PO BOX 93924, ALBUQUERQUE,			·				
Phone#: 505.321.9099	Fax#: 505.872.	.0999	E-mail:	AVID@RIOGRANDEENGINEERINGC.O			
				•			
Check all that Apply:							
DEPARTMENT:			APPROVAL/ACCEP				
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TRAFFIC/ TRANSPORTATION		CERT	TIFICATE OF OCCUP.	ANCY			
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ENGINEER/ARCHITECT CERTIFIC	'ATION		PLAN FOR SUB'D A				
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CONCEPTUAL G & D PLAN	4		L PLAT APPROVAL				
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OTHER (SPECIFY) PRE-DESIGN MEETING?	——————————————————————————————————————		VIIVLONIK				
			•				
IS THIS A RESUBMITTAL?: Yes	XNo	OTHI	ER (SPECIFY)				
DATE SUBMITTED: 1/30/17	Bv:						
DATE SUBMITTED: 1/30/1/	By:						
COA STAFF:	ELECTRONIC S	SUBMITTAL REC	EIVED:				

FEE PAID:_____

DRAINAGE REPORT

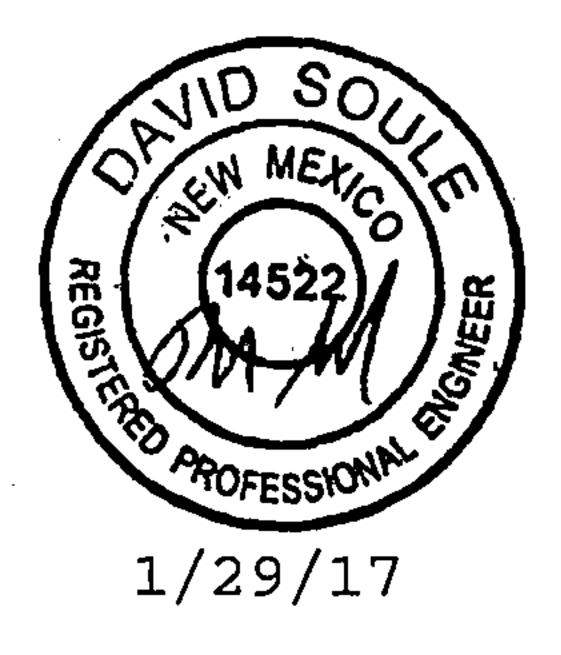
For

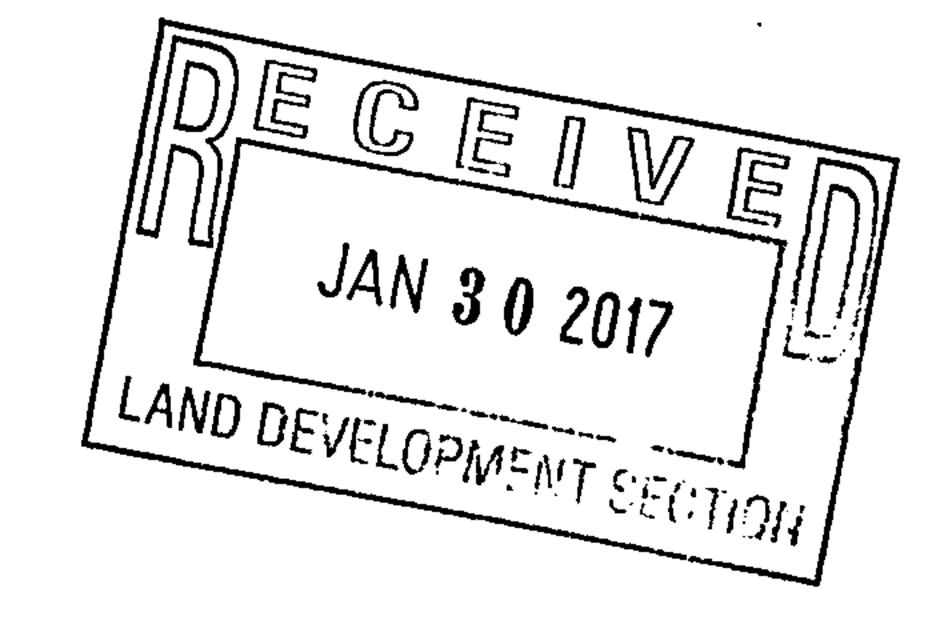
STARBUCKS/FREDDIES 2550 CENTRAL SE Albuquerque, New Mexico

Prepared by

Rio Grande Engineering PO Box 93924 Albuquerque, New Mexico 87199

JANUARY 2017





David Soule P.E. No. 14522

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Map Site Grading and Drainage Plan	

•

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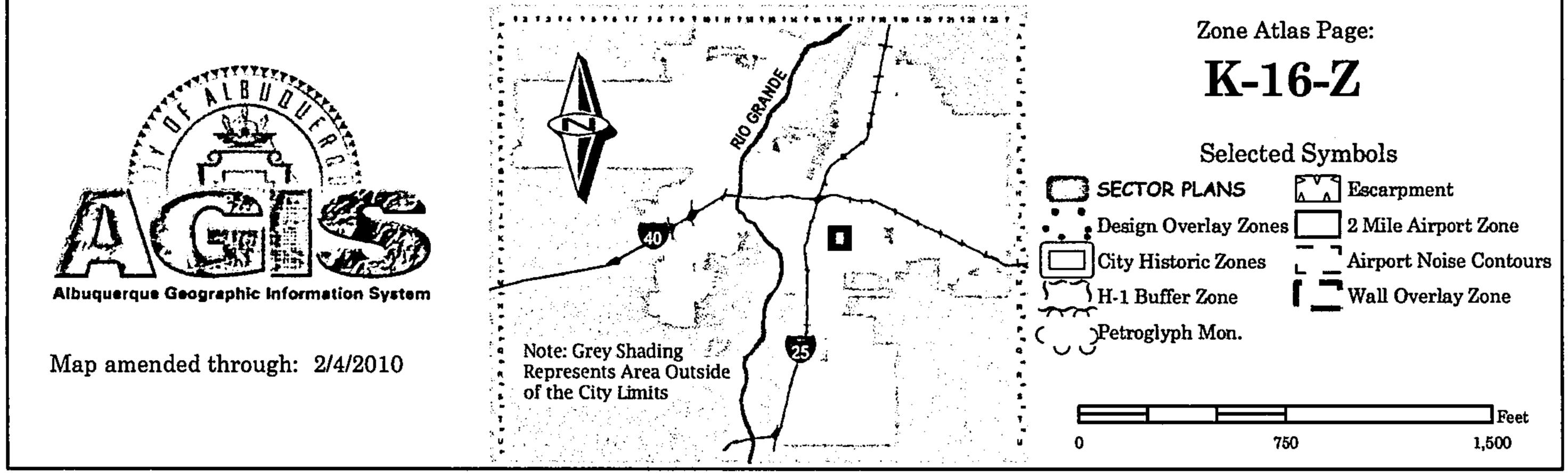
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Weighted E Method

2550 CENTRAL SE

Existing Developed Basins

										······································	100-Year, 6-h	Γ.		10-day
Basin	Area	Area	Treatment	A	Treatme	nt B	Treatm	ent C	Treatme	ent D	Weighted E	Volume	Flow	Volume
_	(sf)	(acres)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(ac-ft)	(ac-ft)	cfs	(ac-ft)
EXISTING	21117	0.485	0%	0	2.0%	0.010	5.0%	0.02424	93.0%	0.451	2.044	0.083	2.22	0.143
PROPOSED BASIN A	14912.00	0.342	0%	0	5.0%	0.017	10.0%	0.03423	85.0%	0.291	1.954	0.056	1.51	0.095
PROPOSED BASIN B	4661.00	0.107	0%	0	0.0%	0.000	21.0%	0.02247	79.0%	0.085	1.912	0.017	0.47	0.028
PROPOSED BASIN C	1544.00	0.035	0%	0	0.0%	0.000	0.0%	0	100.0%	0.035	2.120	0.006	0.17	0.011
PROPOSED	21117.00	0.485	0%	0	3.5%	0.017117	11.7%	0.0567	84.8%	0.410959	1.957	0.079	2.15	0.134
COMPARISON(onsite histori	cal to propose	d)			2%	0.01	7%	0.03	-8%	-0.04		-0.076	-0.07	-0.132

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted D * Total Area

Flow = Qa * Aa + Qb * Ab + Qc * Ac + Qd * Ad

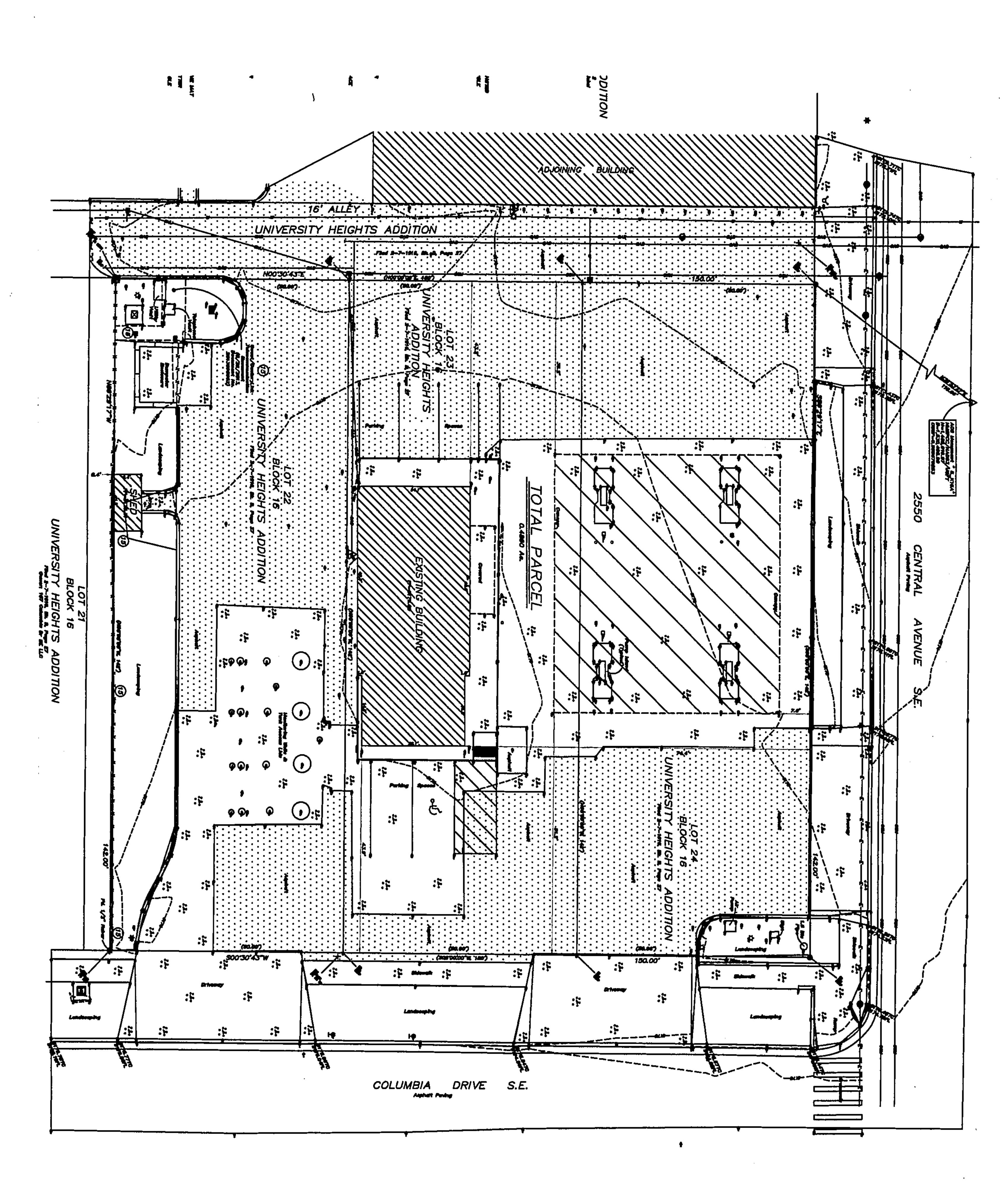
Where for 100-year, 6-hour storm (zone 2)

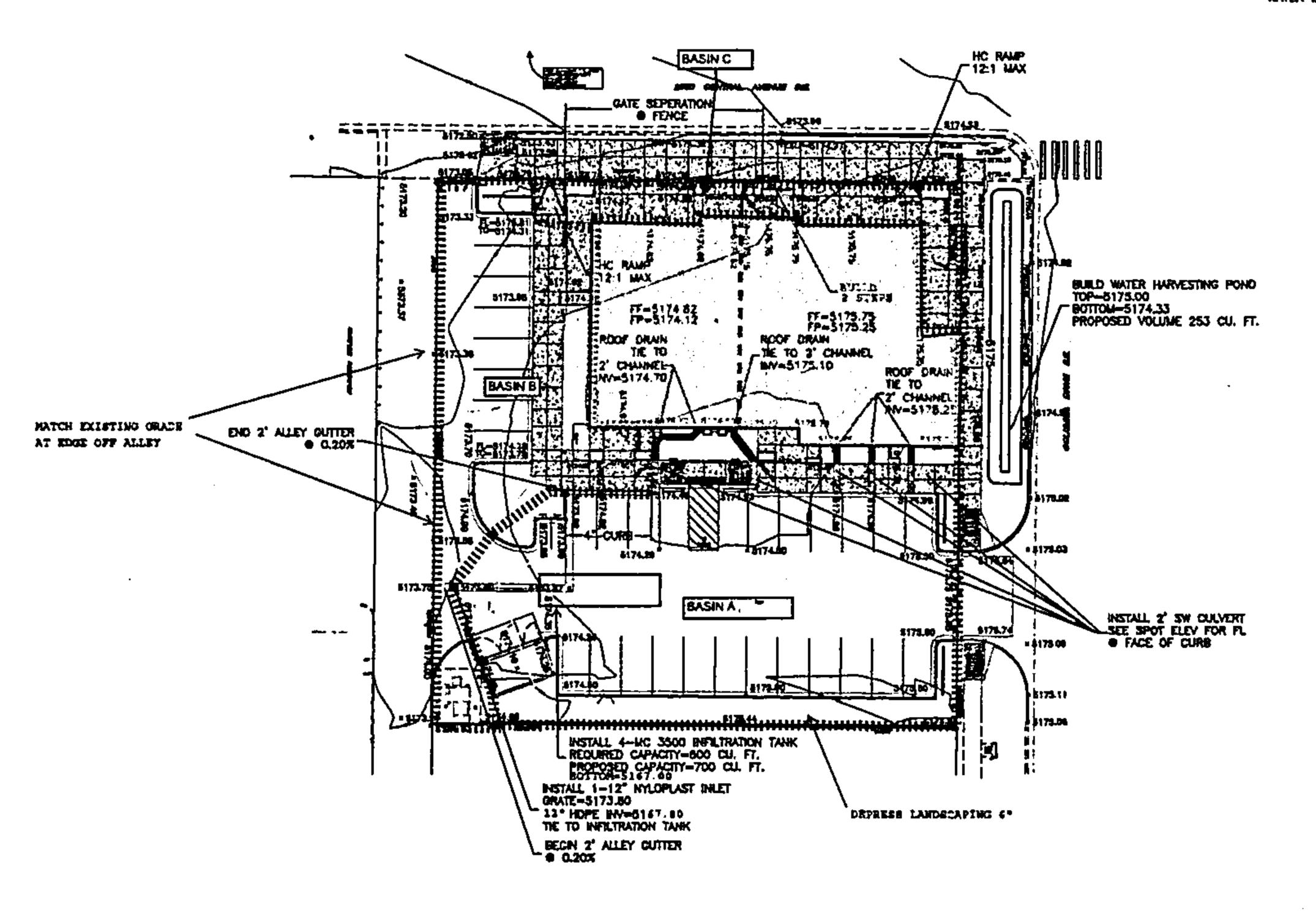
Ea= 0.53 Qa= 1.56 Qb= 2.28 Eb= 0.78 Ec= 1.13 Qc= 3.14 Ed= 2.12 Qd= 4.7

FIRST FLUSH REQUIREMENT 507.2061 CUBIC FEET REQUIRED 809 CUBIC FEET PROVIDED

NARRATIVE

THIS SITE IS A REDEVELOPMENT OF AN EXISTING SITE. THE EXISTING SITE DISCAHRGES 2.22 CFS TO A PUBLIC ALLEY. THE PROPOSED DEVELOPMENT GENERATES LESS THAN EXISTING FLOW RATES. THE FIRST FLUSH VOLUME WILL BE RETAINED BY THE PLACEMENT OF A INFILTRATOR SYSTEM AT THE OUTFALL FLOW LINE. THE SITE MATCHES THE EXIS DRAINAGE PATTERNS. AND WILL TIE TO THE EXISTING ALLEY.





EROSION CONTROL NOTES:

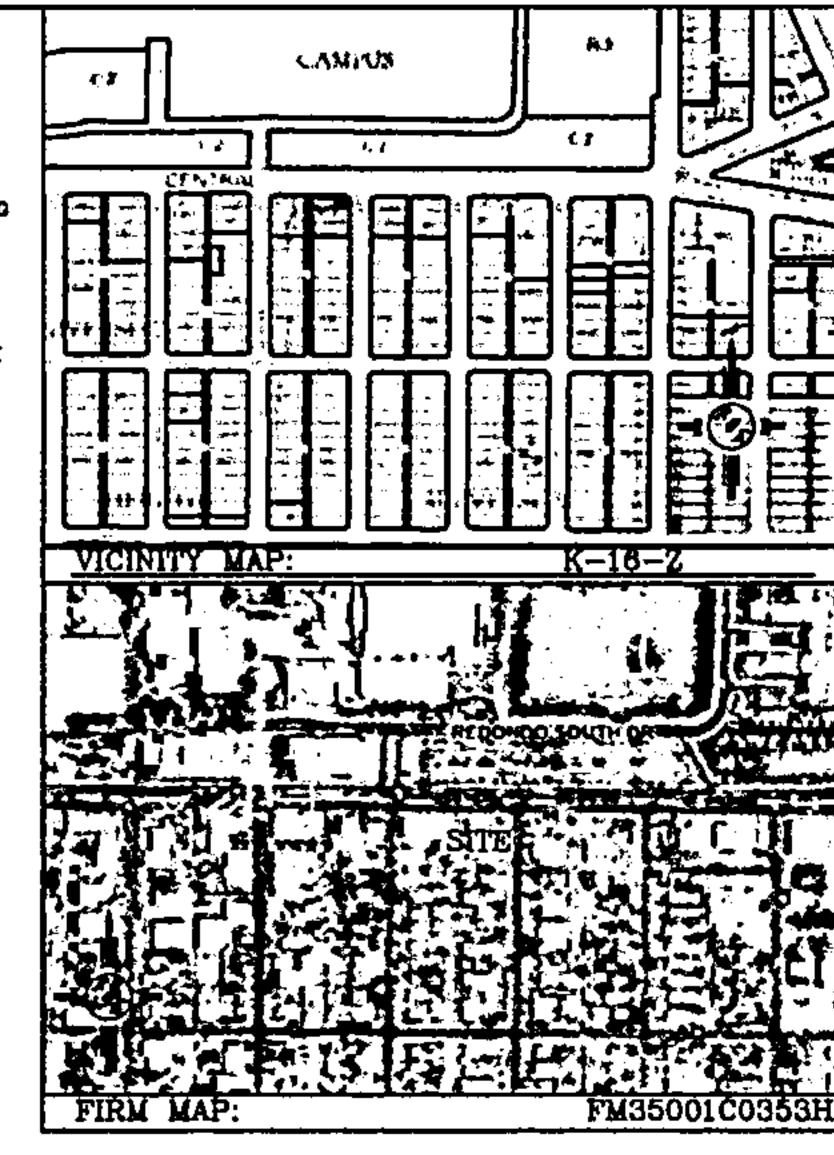
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOL DISTURBANCE PERMIT PRIOR TO BECENNING WORK

2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.

3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



LEGAL DESCRIPTION:
LOT 22, 23, 24, BLOCK 16, UNIVERSITY HEIGHTS ADOITION

NOTES: 1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE HOTED.

2. ALL CURB AND GUTTER TO 6" HEADER UNLESS OTHERWISE NOTED.

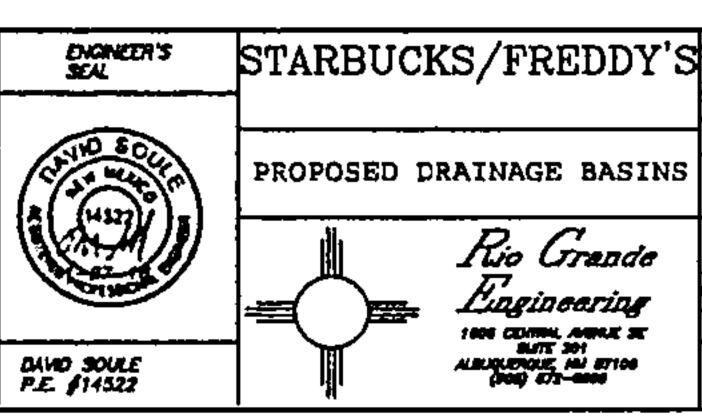
3. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.

4. ALL, NEW PAYING SHALL BE 6" PCC OVER 8" SUBGRADE PREPARATION IN CONFORMANCE TO ACI 330R-08. UNLESS OTHERWISE NOTED,

5. ANY CURBS OR PAVEMENT NEGATIVELY IMPACTED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.

a. ALL SITE WORK SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARDS FOR PUBLIC WORKS CONSTRUCTION EDITION 9

LEGEND



12-27-17

SHEET /

JOB #

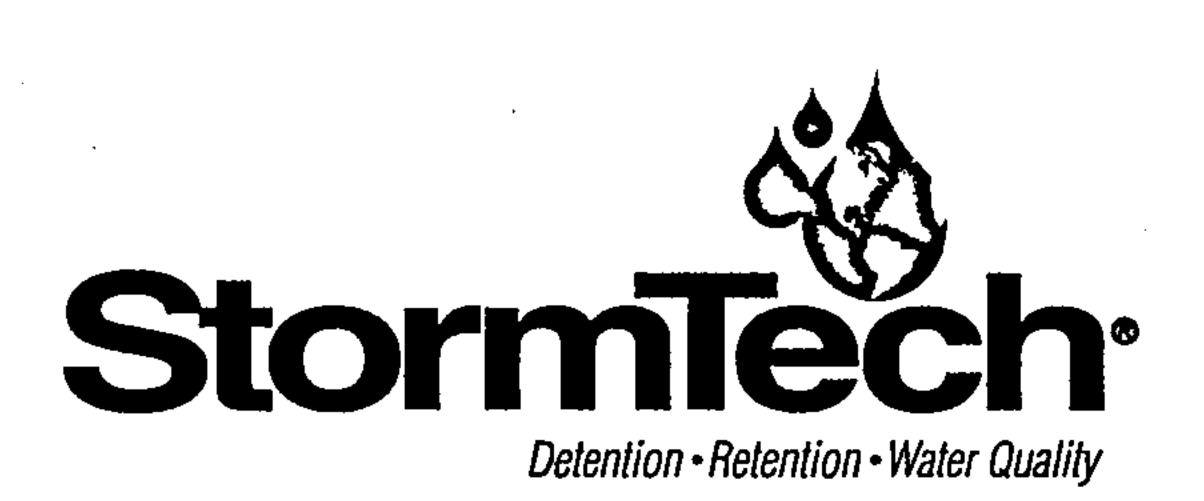
21702

GRAPHIC SCALE

20 10 0 10 SCALE: 1°=20°

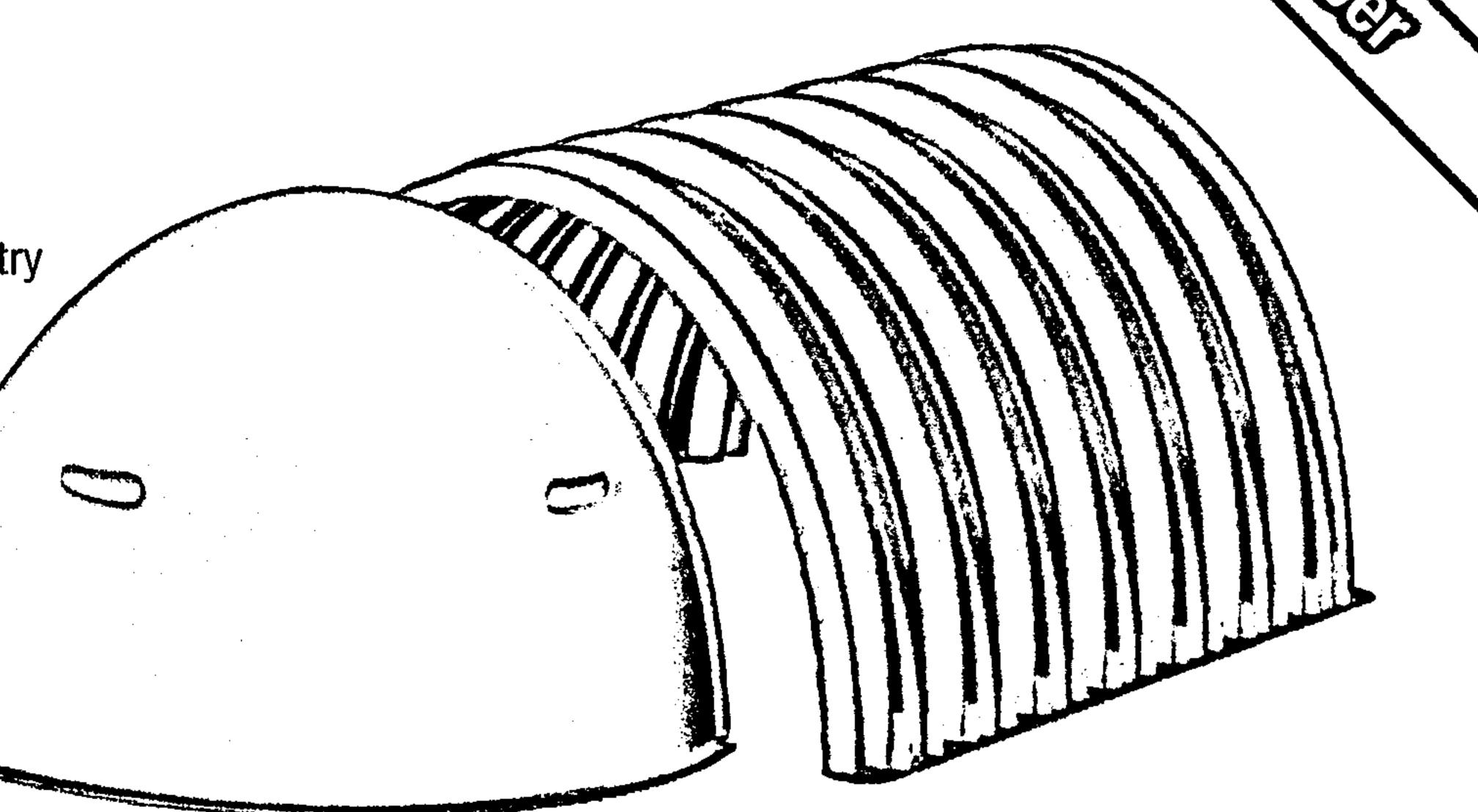
EXISTING UTILITIES ARE NOT SHOWN.
IT SHALL BE THE SOLE RESPONSIBILITY
OF THE CONTRACTOR TO CONOUCT ALL
NECESSARY FIELD INVESTIGATIONS PRIOR
TO ANY EXCAVATION TO DETERMINE THE
ACTUAL LOCATION OF UTILITIES & OTHER
IMPROVEMENTS.

APPENDIX B INFILTRATOR TANK SPECIFICATIONS



StormTech MC-3500 Chamber

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots thus maximizing land usage for commercial



StormTech MC-3500 Chamber (not to scale)

Nominal Chamber Specifications

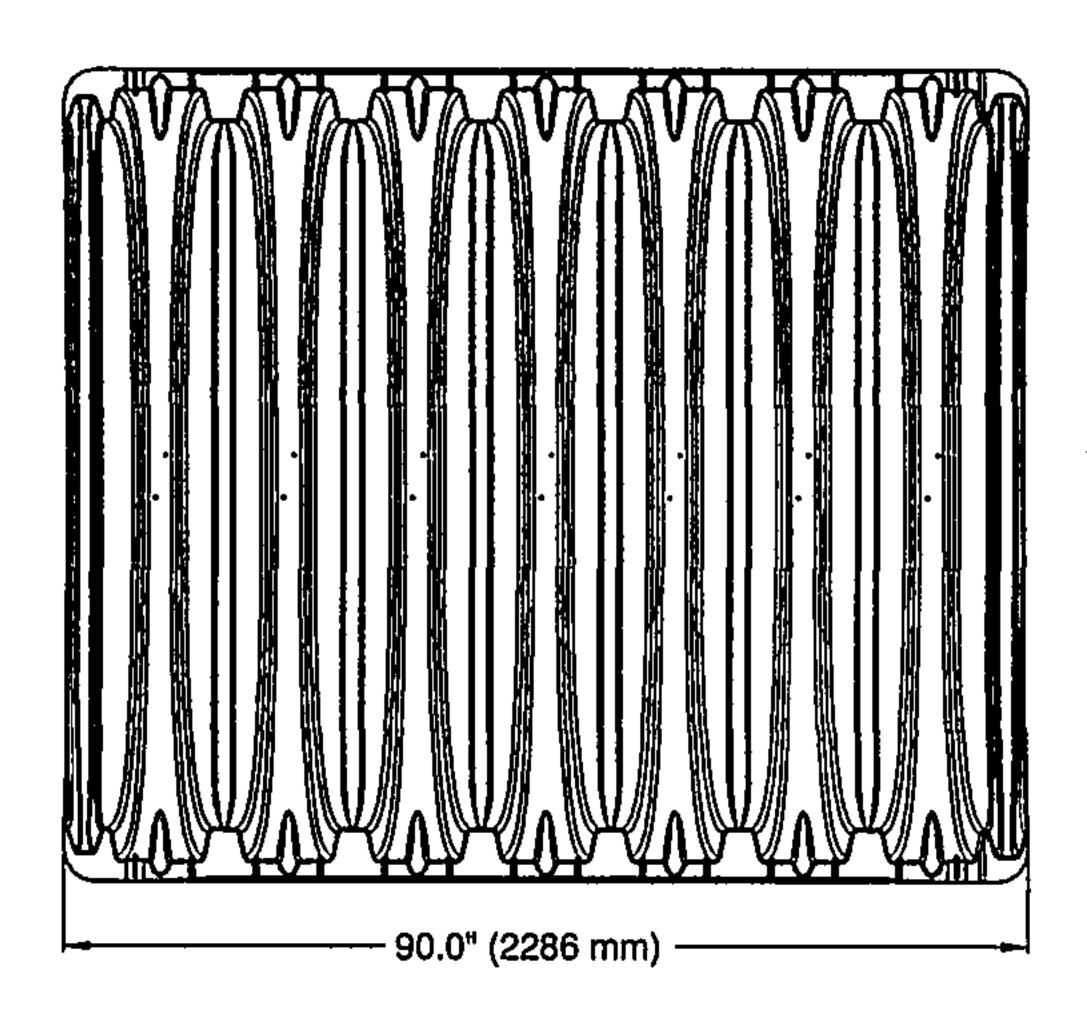
and municipal applications.

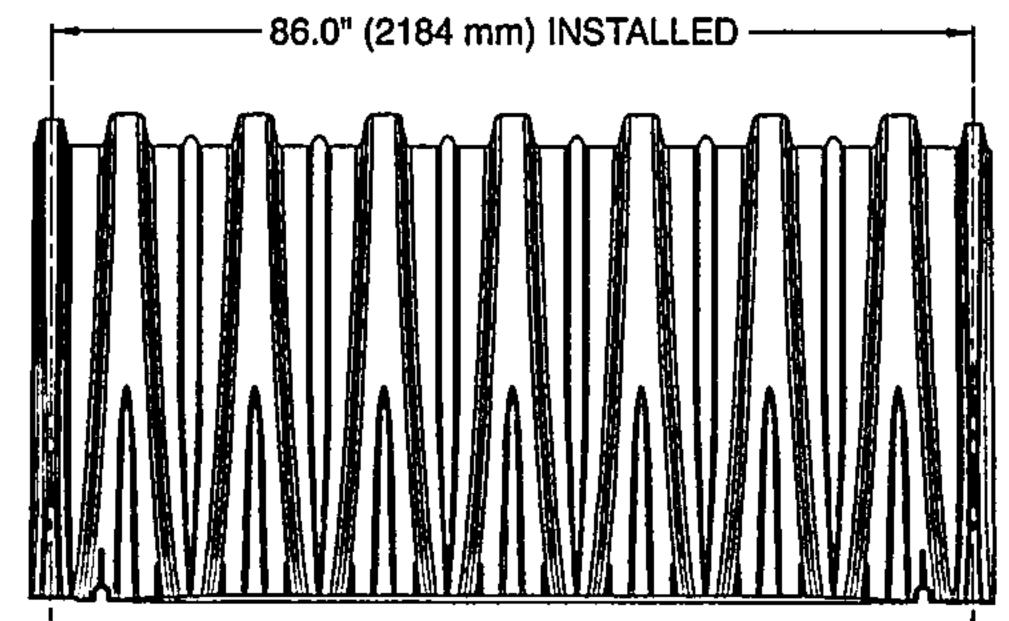
Size (L x W x H)	90" (2286 mm) x 77" (1956 mm) x 45" (1143 mm)
Chamber Storage	109.9 ft³ (3.11 m³)
Min. Installed Storage*	178.9 ft³ (5.06 m³)
Weight	134 lbs (60.8 kg)

^{*} This assumes a minimum of 12" (305 mm) of stone above, 9" (229 mm) of stone below chambers, 9" (229 mm) row spacing, and 40% stone porosity.

Shipping 15 chambers/pallet 16 end caps/pallet

7 pallets/truck





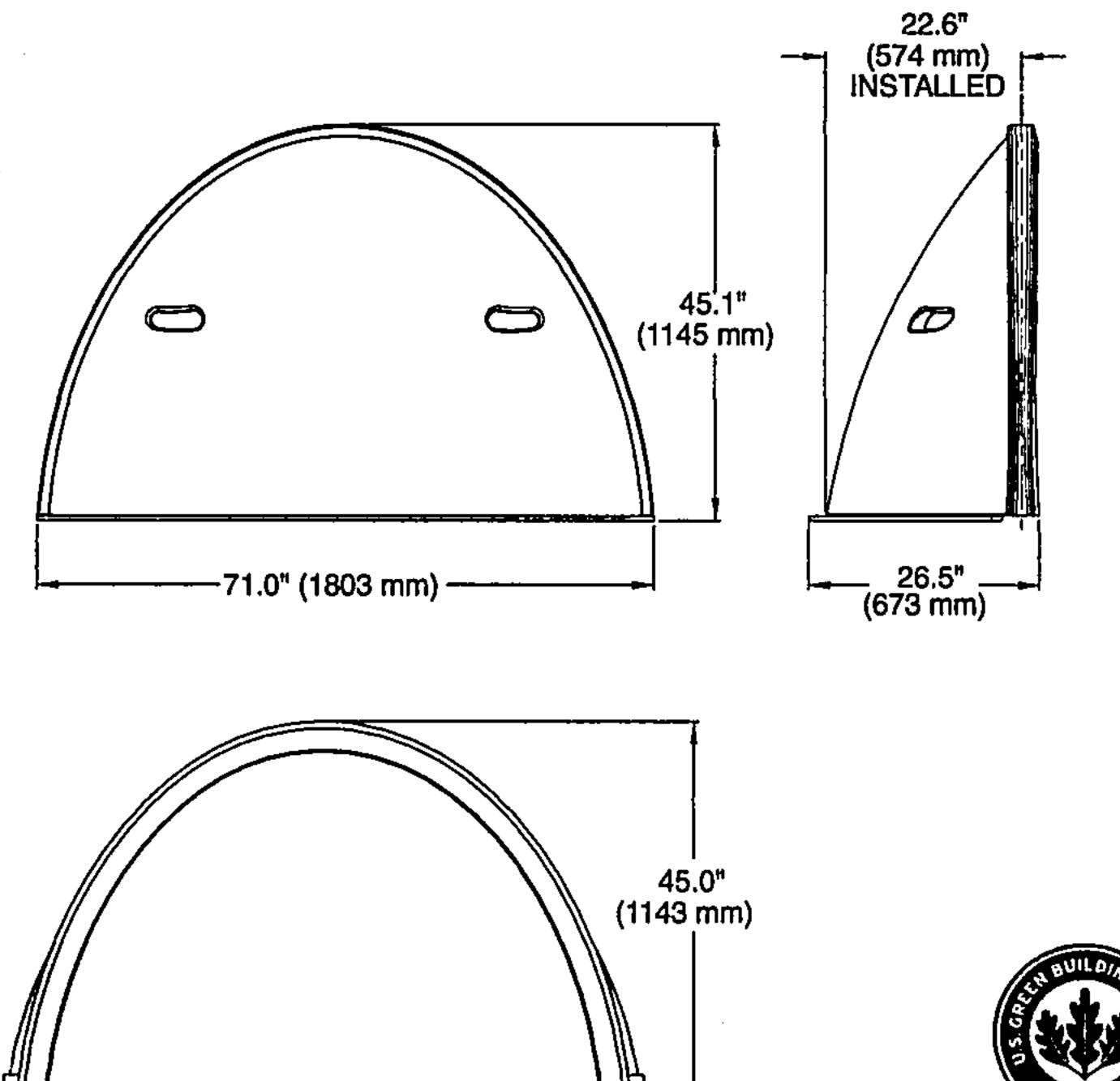
StormTech MC-3500 End Cap (not to scale)

Nominal End Cap Specifications

77.0" (1956 mm)

Size (L x W x H)	26.5° (673 mm) x 71° (1803 mm) x 45.1° (1145 mm)
End Cap Storage	15.6 ft³ (0.44 m³)
Min. Installed Storage*	46.9 ft³ (1.33 m³)
Weight	43 lbs (19.5 kg)

^{*}This assumes a minimum of 12" (305 mm) of stone above, 9" (229 mm) of stone below, 9" (229 mm) row spacing, 6" (152 mm) of stone perimeter, and 40% stone porosity.



Storage Volume Per Chamber/End Cap ft³ (m³)

	Bare Unit Storage	Chamber/End Cap and Stone Volume — Stone Foundation Depth in. (mm)			
	ft³ (m³)	9 (229)	12 (305)	15 (381)	18 (457)
MC-3500 Chamber	109.9 (3.11)	178.9 (5.06)	184.0 (5.21)	189.2 (5.36)	194.3 (5.5)
MC-3500 End Cap	15.64 (0.44)	46.9 (1.33)	48.6 (1.38)	50.3 (1.43)	52.0 (1.47)

NOTE: Assumes 9" (229 mm) row spacing, 40% stone porosity 12" (305 mm) stone above and includes the bare chamber/end cap volume. End Cap volume assumes 6" (152 mm) stone perimeter.

Amount of Stone Per Chamber

ENGLISH tons (yd³)	Store Foundation Depth			
	9 in.	12 in.	15 in.	18 in.
MC-3500	9.1 (6.4)	9.7 (6.9)	10.4 (7.3)	11.1 (7.8)
End Cap	4.1 (2.9)	4.3 (3.1)	4.6 (3.2)	4.8 (3.4)
METRIC kg (m³)	229 mm	305 mm	381 mm	457 mm
MC-3500	8220 (4.9)	8831 (5.3)	9443 (5.6)	10054 (6.0)
End Cap	3729 (2.2)	3933 (2.3)	4136 (2.5)	4339 (2.6)

NOTE: Assumes # (305 mm) of stone above, and 9" (229 mm) between chambers/end cars.

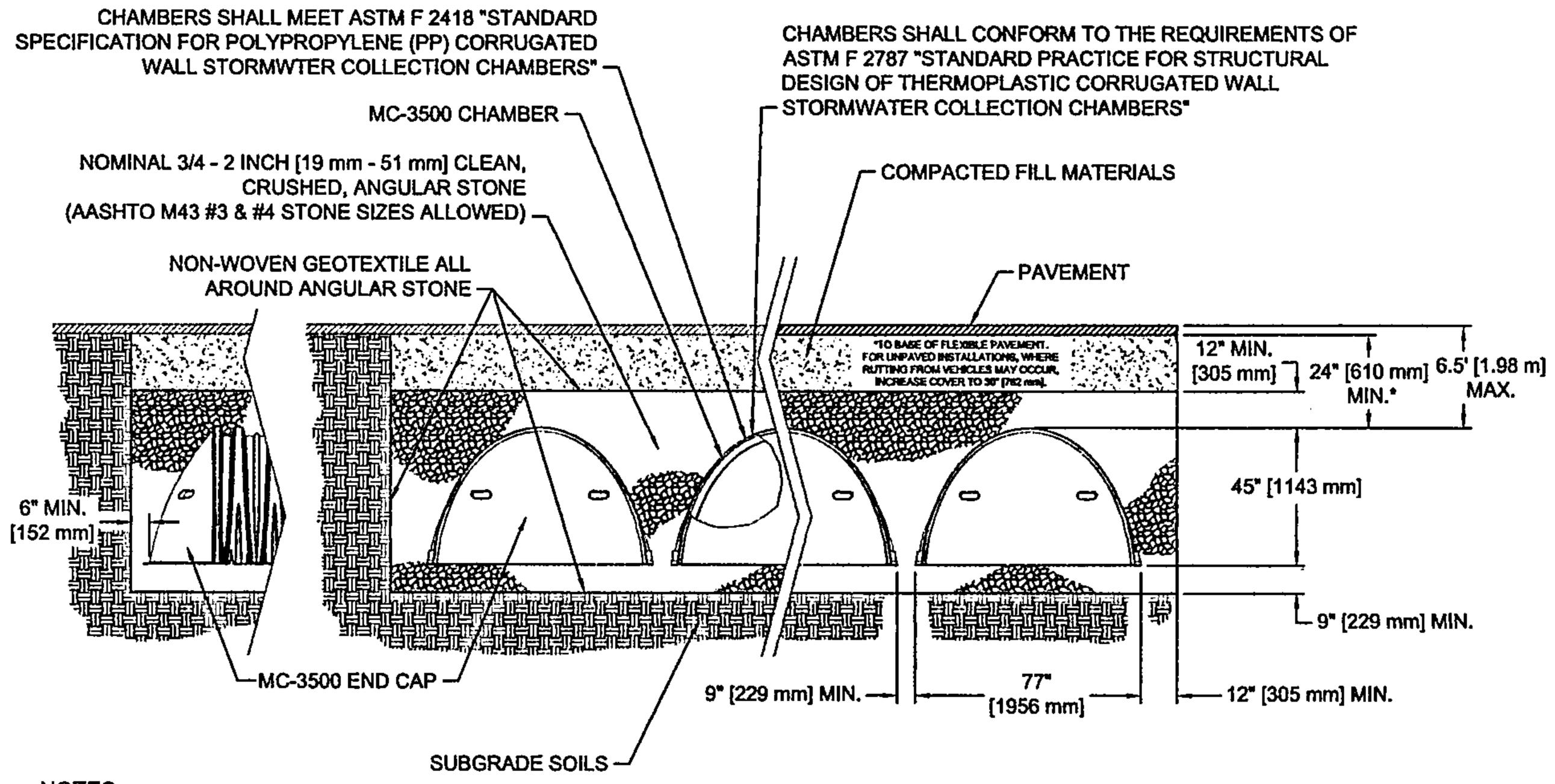
Volume of Excavation Per Chamber/End Cap in yd3 (m3)

	Stone			
	9 (229)	12 (305)	15 (381)	18 (45%)
MC-3500	12.4 (9.5)	12.8 (9.8)	13.3 (10.2)	13.8 (10.5)
End Cap	4.1 (3.1)	4.3 (3.3)	4.4 (3.4)	4.6 (3.5)

NOTE: Assumes 9" (229 mm) of separation between chamber rows and 24" (610 mm) of cover. The volume of excavation will vary as the depth of cover increases.

stone treatement

General Cross Section



NOTES:

- THIS CROSS SECTION PROVIDES GENERAL INFORMATION FOR THE MC-3500 CHAMBER. STORMTECH MC-3500 CHAMBERS MUST BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE MC-3500 DESIGN MANUAL AND MC-3500 CONSTRUCTION GUIDE.
- PROPERLY INSTALLED MC-3500 CHAMBERS PROVIDE THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR EARTH AND LIVE LOADS WITH CONSIDERATION FOR IMPACT AND MULTIPLE PRESENCES.
- PERIMETER STONE MUST ALWAYS BE BROUGHT UP EVENLY WITH BACKFILL OF BED. PERIMETER STONE MUST EXTEND HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH STRAIGHT OR SLOPED SIDEWALLS.



A division of

70 Inwood Road, Suite 3 | Rocky Hill | Connecticut | 06067 860.529.8188 | 888.892.2694 | fax 866.328.8401 | fax 860-529-8040 | www.stormtech.com

ADS "Terms and Conditions of Sale" are available on the ADS website, www.ads-pipe.com.

Advanced Drainage Systems, the ADS logo, and the green stripe are registered trademarks of Advanced Drainage Systems.

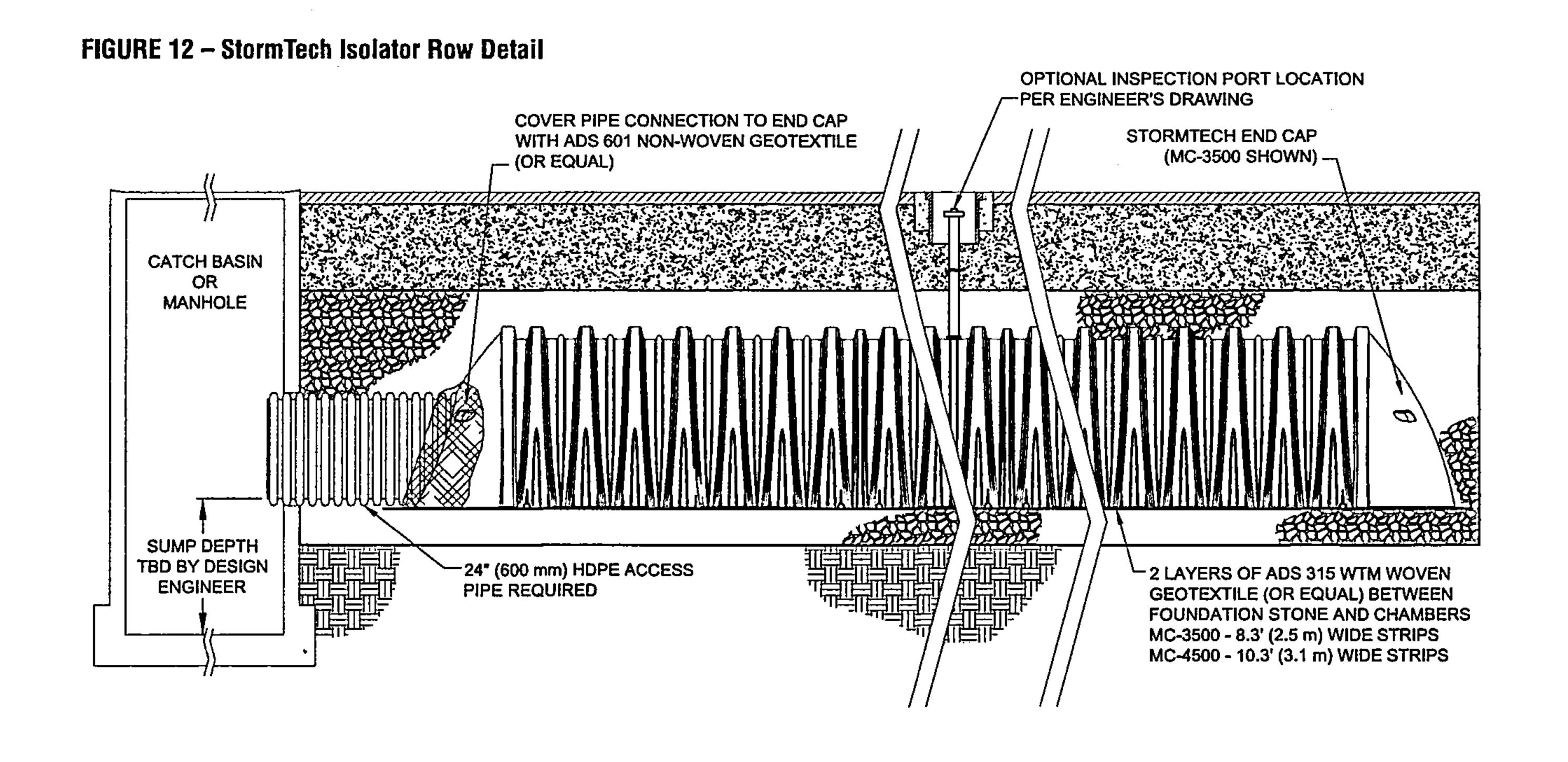
StormTech® is a registered trademark of StormTech, Inc.

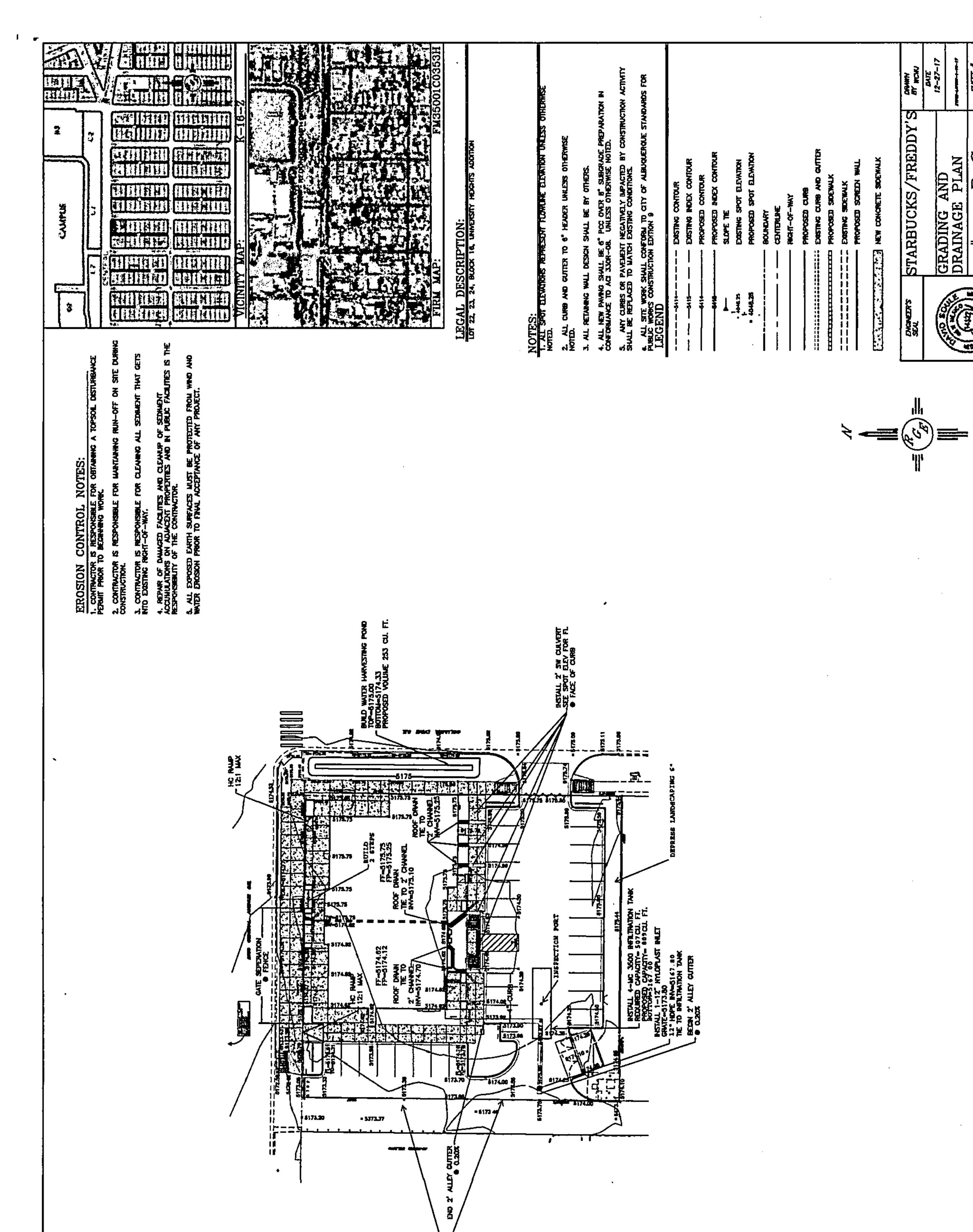
The Green Building Council Member logo is a registered trademark of the U.S. Green Building Council. S150909 06/12





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CAUTION:

EXISTING UTICINES ARE NOT SHOWN.

IT SHALL BE THE SOLE RESPONSIBILITY

OF THE CONTRACTOR TO CONDUCT ALL

NECESSARY FIELD INVESTIGATIONS PRIOR

TO ANY EXCAVATION TO DETERMINE THE

ACTUAL LOCATION OF UTILITIES & OTHER

DAND SOULE

CITY OF ALBUQUERQUE



September 20, 2016

Peter Butterfield Architect 13013 Glenwood Hills Ct NE Albuquerque, NM

Re: UNM Shell

2550 Central Ave SE Traffic Circulation Layout

Architect's Stamp dated 09-07-16 (K16D075)

Dear Mr. Butterfield,

The TCL submittal received 09-08-16 is approved for Building Permit. A copy of the stamped and signed plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation.

 Please coordinate construction details with Paula Dodge-Kwan the City of Albuquerque Project Manage for the Albuquerque Rapid Transit project. Her contact information is 505-768-3623 or email pdodge-kwan@cabq.gov.

PO Box 1293

Albuquerque

√ **%**

When the site construction is completed and a Certificate of Occupancy (C.O.) is requested, use the original City stamped approved TCL for certification. Redline any minor changes and adjustments that were made in the field. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed <u>Drainage and Transportation Information Sheet</u> to front counter personnel for log in and evaluation by Transportation.

New Mexico 87103

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3690.

www.cabq.gov

Racquel M. Michel, P.E.

Sincerely,

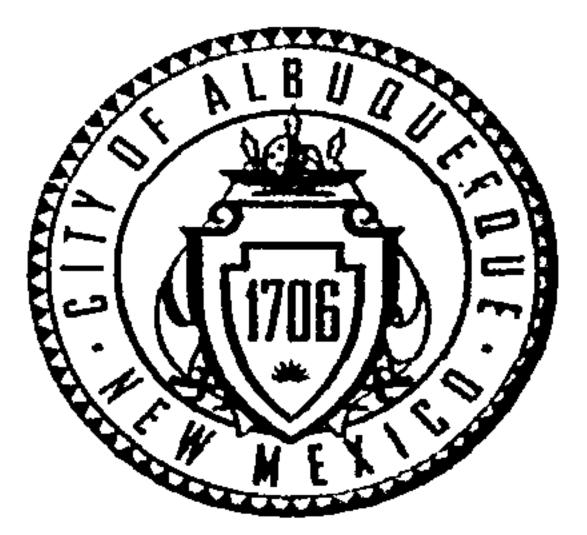
Manual

Ma

Traffic Engineer, Planning Dept.

Development Review Services

mao via: email C: CO Clerk, File



COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: ____

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: UNM Shell	Building Permit #: City Drainage #: KI6D07
DRB#: EPC#:	Work (:r#:
Legal Description: LOTS 22 23 & 24 BLK 16 UNIVERSITY HEIGH	ITS ADDN
City Address: 2550 Central Avenue SE	
Engineering Firm:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Owner: TA CENTRAL UNM L.L.C., A NEVADA LIMITED LIABILIT	Contact: Mark Tekin
Address: 8765 STOCKARD DRIVE SUITE 203 FRISCO, TEXAS 7	75034
Phone#: (214) 960-9991 Fax#:	E-mail: marktekin@gmail.com
Architect: Peter Butterfield, Architect	Contact: Peter Butterfield
Address: 13013 Glenwood Hills Ct NE, Albuquerque NM	
Phone#: 505 332 9323 Fax#:	E-mail: peterbutterfield@Q.com
Other Contact:	Contact:
Address:	
Phone#: Fax#:	E-mail:
Choole all that Ammlen	
Check all that Apply:	
DEPARTMENT:	CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
HYDROLOGY/ DRAINAGE * TRAFFIC/ TRANSPORTATION	X BUILDING PERMIT APPROVAL
* TRAFFIC/ TRANSPORTATION MS4/ EROSION & SEDIMENT CONTROL	CERTIFICATE OF OCCUPANCY
TYPE OF SUBMITTAL:	PRELIMINARY PLAT APPROVAL
ENGINEER/ ARCHITECT CERTIFICATION	SITE PLAN FOR SUB'D APPROVAL
	SITE PLAN FOR BLDG. PERMIT APPROVAL
CONCEPTUAL G & D PLAN	FINAL PLAT APPROVAL
GRADING PLAN	SIA/ RELEASE OF FINANCIAL GUARANTEE
DRAINAGE MASTER PLAN	FOUNDATION PERMIT APPROVATION
DRAINAGE REPORT	GRADING PERMIT APPROVAL
CLOMR/LOMR	SO-19 APPROVAL 同同同同例目
× TRAFFIC CIRCULATION LAYOUT (TCL)	PAVING PERMIT APPROVAL US LE U LE LI
TRAFFIC IMPACT STUDY (TIS)	GRADING/PAD CERTIFICATION 5 P 0 8 2016 WORK ORDER APPROVAL 5 P 0 8 2016
EROSION & SEDIMENT CONTROL PLAN (ESC)	
	CLOMR/LOMR
OTHER (SPECIFY)	PRE-DESIGN MEETING LAND DEVELOPMENT SECTION
	OTHER (SPECIFY)
IS THIS A RESUBMITTAL?: Yes X No	——————————————————————————————————————
WALLOW KENDODIVILLE AND IND	
DATE SUBMITTED: 9/8/16	By: peter butterfield
·	****

Doc# 2010014768

02/22/2010 10:16 AM Page: 1 of 2
EASE R:\$11.00 M. Toulouse Oliver, Bernalillo County

private

RECIPROCAL EASEMENT FOR COMMON ACCESS AND PARKING

<u>Diamond Shamrock Stations, Inc.</u> ("Owner") is the owner of <u>Lots 22, 23 & 24</u> (each a "Lot"), <u>Block 16 of the University Heights Addition</u>, a Subdivision in the City of Albuquerque, as the same are shown and designated on the map of said Addition filed in the office of the County Clerk of the County of Bernalillo, State of New Mexico, on February 7, 1916, Volume D, folio 27 (the "Property").

Owner desires to create common access and parking easements over the Easement Areas (as defined herein) benefitting and burdening the above-described adjoining Lots that comprise the Property for the Easement Purpose (as defined herein). As used in this Reciprocal Easement for Common Access and Parking ("Easement"), "Easement Areas" means the driveways, parking areas, sidewalks and walkways, access ways, curb cuts, entrances and exits as such area shall, from time to time, be developed, altered or modified on each Lot.

Subject to any express conditions, limitations or reservations contained herein, Owner hereby declares, establishes and grants for the benefits of and as an appurtenance to each Lot, a non-exclusive and perpetual easement for reasonable access, ingress / egress, and parking over the Easement Areas for the continued use for the existing convenience store/gas station, together with any other lawful use of the Property, as to provide for the free and uninterrupted passage of motor vehicles (including any emergency vehicles and service vehicles) and pedestrians over the Easement Areas between the Lots and all abutting streets and rights-of-way furnishing access to the Lots (the "Easement Purpose").

This Easement is superior and paramount to the rights of Owner in the respective servient estates so created. Owner further agrees that this Easement is a covenant that shall run with the land.

The maintenance of the Easement Areas is the responsibility of the Owner of the Lot on which the respective Easement Areas are located. Nothing contained in this Easement shall be deemed to be a gift or dedication of any portion of the Property to the general public or for any public use or purpose whatsoever.

In witness whereof, the parties hereto have executed this agreement as follows:

RECEIVED

FEB 22 2019

HYDROLOGY
SECTION

OWNER:

DIAMOND SHAMROCK STATIONS, INC.,

a Delaware corporation

By: Name:

Title:

DOUGLAS M. MILLER VILLA PRESIDENT

February 4, 2010 – Store No. 1221 1

Reciprocal Easement for Common Area Access and Parking

COUNTY OF BEXAR §

The foregoing instrument was acknowledged before me on February 4, 2010, by Douglas M. W. Hes the Vice President of DIAMOND SHAMROCK STATIONS, INC., a Delaware corporation, on behalf of said corporation.

Notary Public, State of

R KEVIN KING
Notary Public
STATE OF TEXAS
My Comm. Exp. 11-19-2012

RECEIVED

FEB 22 2010

HYDROLOGY SECTION_

CITY OF ALBUQUERQUE



February 18, 2010

Ronald Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Re: Valero Store 1221, 2550 Central Ave SE, Traffic Circulation Layout Engineer's Stamp dated 02-12-10 (K16-D075)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 02-17-10, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

PO Box 1293

Albuaueraue

- 1. The ramp detail as shown is not acceptable. All proposed ramps must be contained within the sidewalk, as locating a ramp outside of this area produces a tripping hazard.
- 2. A cross access easement is needed between lots 22, 23, and 25 (see Figure 23.6.3 of the *Development Process Manual*).

NM 87103

If you have any questions, you can contact me at 924-3991.

Sincerely,

www.cabq.gov

Kristal D. Metro, P.E.

Traffic Engineer, Planning Dept.

Development and Building Services

C: File

(REV. 1/28/2003rd)

PROJECT TITLE: Valero, Store #1221		ZONE MAP/DRG. FILE #: K-16 D075		
DRB #:	EPC #:	WORK ORD		
			•	
LEGAL DESCRIPTION	Lots 22, 23, 24, Block 16, University Heights	<u> </u>		
CITY ADDRESS:	2550 Central Ave, SE	<u></u>		
		CONTACT	Mincont Carries DE	
ENGINEERING FIRM:		_ CONTACT: PHONE:	Vincent Carrica, P.E. (505) 858-3100	
ADDRESS:	5571 Midway Park Place NE	ZIP CODE:		
CITY, STATE:	Albuquerque, NM		<u> </u>	
OWNER:	Diamond Shamrock Stations Inc.	CONTACT:		
ADDRESS:		PHONE:		
CITY, STATE:		ZIP CODE:		
			•	
ARCHITECT:	CAD Solutions, LLC	CONTACT:		
ADDRESS:	3436 New Castle Drive	PHONE:	(970) 988-6302	
CITY, STATE:	Loveland, CO	ZIP CODE:	80538	
	Descioles Cumanus	CONTACT:	Larry Medrano	
SURVEYOR: ADDRESS:	Precision Surveys 5571 Midway Park Place, NE	PHONE:	(505) 856-5700	
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87109	
0111, 017112.	- Tibaqaoiqao; i iii			
CONTRACTOR:		CONTACT:		
ADDRESS:		PHONE:		
CITY, STATE:		ZIP CODE:		
OUTOK TYPE OF CUPA	ALTTAI.	CHECK TYPE OF	APPROVAL SOUGHT:	
CHECK TYPE OF SUBN DRAINAGE RE		SIA / FINANACIAL GUARANTEE RELEASE		
-	AN 1st SUBMITTAL, REQUIRES TCL or equal	PRELIMINARY PLAT APPROVAL		
	LAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D. APPROVAL		
CONCEPTUAL	GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL		
GRADING PLAN		SECTOR PLAN APPROVAL		
EROSION CONTROL PLAN		FINAL PLAT APPROVAL		
ENGINEER'S CERTIFICATION (HYDROLOGY)		FOUNDATION PERMIT APPROVAL X BUILDING PERMIT APPROVAL		
CLOMR/LOMR		CERTIFICATE OF OCCUPANCY (PERM.)		
TRAFFIC CIRCULATION LAYOUT (TCL) ENGINEERS CERTIFICATION (TCL)		CERTIFICATE OF OCCUPANCY (TEMP.)		
ENGINEERS CERTIFICATION (TOL) ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)		GRADING PERMIT APPROVAL		
OTHER		PAVING PERMIT APPROVAL		
		WORK ORDER APPROVAL		
		SO-19) W	A TENENT OF THE STATE OF THE ST	
······································	ONFERENCE ATTENDED:			
YEŞ			FEB 1 7 2010	
NO			1 • ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~	
COPY PROVID	にい			
			HYDROLOGY	
		· · · · · · · · · · · · · · · · · · ·	SECTION	
DATE SUBMITTED:	2/17/2010	BY:	Vincent Carrica, P.E.	

- 1. Conceptual Grading and Drainage Plans: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



December 17, 2009

Ronald Ray Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Re: Valero, Central and Colombia, Grading and Drainage Plan Engineer's Stamp dated 12-14-09 (K16/D075)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 12-15-09, the above referenced plan cannot be approved for Grading Permit or Building Permit until the following comments are addressed:

PO Box 1293

• Provide a Finished Floor elevation for the proposed addition.

• Provide a curb or similar along the southern edge of the landscape area along the southern boundary. In addition, provide grades/a section for this landscape area to ensure flows don't enter the site to the south.

Albuquerque

.

www.cabq.gov

Sincerely,

Curtis A. Cherne, P.E.

Senior Engineer, Planning Dept.

Development and Building Services

 \mathbb{C} : file

(REV. 1/28/2003rd)

ENGINEERING FIRM: Tierra West, LLC CONTACT: Sara Lavy, P.E. ADDRESS: 5571 Midway Park Place NE PHONE: (505) 858-3100 CITY, STATE: Albuquerque, NM ZIP CODE: 87109 OWNER: CONTACT: CONTACT: ADDRESS: PHONE: ZIP CODE: ARCHITECT: CAD Solutions, LLC CONTACT: Corey Stiner ADDRESS: 3436 New Castle Drive PHONE: (970) 988-6302 CITY, STATE: Loveland, CO ZIP CODE: 80538 SURVEYOR: Precision Surveys CONTACT: Larry Medrano ADDRESS: 5571 Midway Park Place, NE PHONE: (505) 856-5700 CITY, STATE: Albuquerque, NM ZIP CODE: 87109 CONTRACTOR: CONTACT: PHONE: ZIP CODE: CONTACT: ZIP CODE: CONTACT: CONTACT: LODE: ZIP CODE: SIA / FINANACIAL GUARANTEE RELEAS	
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DATE SUBMITTED: 12/15/2009 BY: Sara Lavy, P.E.	•

- 1. Conceptual Grading and Drainage Pians: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



February 8, 2010

Ronald Ray Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Re: Valero, Central and Colombia, Grading and Drainage Plan

Engineer's Stamp dated 1/28/2010 (K16/D075)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 1/28/2010, the above referenced plan is approved for building permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

PO Box 1293

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

Albuquerque

NM 87103

www.cabq.gov

Sincerely,

Curtis A. Cherne, P.E.

Senior Engineer, Planning Dept.

Development and Building Services

C: file

(REV. 1/28/2003rd)

PROJECT TITLE:	Valero, Store #1221	ZONE MAP/DRG. FILE # K-16/DOTO			
DRB #:	EPC #:	_ WORK	ORD <u>ER #:</u>		
LEGAL DESCRIPTION	N Lots 22, 23, 24, Block 16, University Heights				
CITY ADDRESS:	2550 Central Ave, SE		<u> </u>		
•			•		
ENGINEERING FIRM:	Tierra West, LLC	CONTA	CT: Vincent Carrica, P.E.		
ADDRESS:	5571 Midway Park Place NE	_ PHONE			
CITY, STATE:	Albuquerque, NM	_ ZIP COI	DE: <u>87109</u>		
OWNER:	Diamond Shamrock Stations Inc.	CONTA	∩т.		
ADDRESS:	Diamond Shamilock Stations inc.	CONTA			
CITY, STATE:		ZIP COE			
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ARCHITECT:	CAD Solutions, LLC	CONTA	CT: Corey Stiner		
ADDRESS:	3436 New Castle Drive	PHONE			
CITY, STATE:	Loveland, CO	ZIP COL	DE: 80538		
	-		•		
SURVEYOR:	Precision Surveys	CONTAC	CT: Larry Medrano		
ADDRESS:	5571 Midway Park Place, NE	PHONE	(505) 856-5700		
CITY, STATE:	Albuquerque, NM	_ ZIP COD	DE: 87109		
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- 1. Conceptual Grading and Drainage Plans: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

TIERRA WEST, LLC

January 13, 2010

Mr. Curtis Cherne, PE Senior Engineer, Planning Dept. City of Albuquerque P.O. Box 1293 Albuquerque, NM 87103

RE: VALERO STORE #1221, 2550 CENTRAL AVE SE DRAINAGE RESUBMITTAL LETTER (K16/D075)

Dear Mr. Cherne:

Please see the following responses to your comments received in a letter dated December 17, 2009.

- 1. Provide a Finished Floor elevation for the proposed addition.

 The Finished Floor elevation for the addition is the same as for the original store and is now shown on the Grading Plan.
- 2. Provide a curb or similar along the southern edge of the landscape area along the southern boundary. In addition, provide grades/a section for this landscape area to ensure flows don't enter the site to the north.

A wooden fence exists on the southern property line as well as a landscape strip between it and the existing pavement. The slope in this landscape strip is away from the property line and into the site. The existing fence and this positive drainage away from the property line will be maintained with the proposed site improvements. A typical section for the new landscaping and header curb has been added to the grading plan.

If you have questions or need additional information regarding this project, please do not hesitate to call me.

Sincerely.

Vincent Carrica, PE

Enclosure/s

CC:

Corey Stiner

JN: 29047 VPC/cla



JAN 28 2010

HYDROLOGY SECTION

(REV. 1/28/2003rd)

PROJECT TITLE: DRB #:	Valero, Store #1221 EPC #:	ZONE MAP/DRG. FILE # K-16 \(\int DO^75 \) WORK ORDER #:		
	N Lots 22, 23, 24, Block 16, University Height	S		
CITY ADDRESS:	2550 Central Ave, SE			
ENGINEERING FIRM	: Tierra West, LLC	CONTACT: Vincent Carrica, P.E.		
ADDRESS:	5571 Midway Park Place NE	PHONE: (505) 858-3100		
CITY, STATE:	Albuquerque, NM	ZIP CODE: 87109		
OWNER:	Diamond Shamrock Stations Inc.	CONTACT:		
ADDRESS:		PHONE:		
CITY, STATE:		ZIP CODE:	—	
ARCHITECT:	CAD Solutions, LLC	CONTACT: Corey Stiner		
ADDRESS:	3436 New Castle Drive	PHO IE. (970) 988-6302		
CITY, STATE:	Loveland, CO	ZIP COP 8 538		
SURVEYOR: ADDRESS:	Precision Surveys 5571 Midway Park Place, NE	PHONE: (505) 856-100		
CITY, STATE:	Albuquerque, IM	31P CODE: (303) 530-100		
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DATE SUBMITTED:	1/28/2010	BY: Vincent Carrica, P.F.		

- 1. Conceptual Grading and Drainage Plans: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

tierrawestllc.com

TIERRA WEST, LLC

January 13, 2010

Ms. Kristal Metro, PE
Traffic Engineer, Planning Dept.
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: VALERO STORE #1221, 2550 CENTRAL AVE SE TCL RESUBMITTAL LETTER (K16/D075)

Dear Ms. Metro:

Please see the following responses to your comments received in a letter dated December 9, 2009.

1. The number of parking spaces required by the Zoning Code is defined as 6 spaces, yet only 5 spaces are shown on the site.

In addition to the 5 spaces you reference, an additional 8 spaces at the pumps are allowed per our conversations with Zoning. The total parking spaces provided is 13.

- 2. Please include two copies of the traffic circulation layout at the next submittal. Two copies are provided per your request.
- 3. A shared driveway is shown between this site and lot 1A. Provide a copy of the cross access easement between the sites.

 The shared driveway is a 16' public alleyway, see included boundary survey. The alley has been labeled on the TCL.
- 4. Show the 6-foot wide, ADA accessible pedestrian pathway from the right of way to the building.

This is shown on the revised TCL.

- 5. Call out the width of all sidewalks, both existing and proposed.

 All sidewalk widths are shown on the revised TCL.
- 6. Provide a detail for the proposed ramp.

 The ramp detail is shown on the revised TCL.
- A cross access easement is needed between lots 22, 23, and 25 (see Figure 23.6.3 of the Development Process Manual).

A cross access easement will be provided for Lots 22, 23 and 24

8. A 24-foot wide access aisle must be provided for two directional traffic

JAN 28 2010

HYDROLOGY

The access aisle is 34.57 feet wide (including the public alley) and has been labeled on the TCL.

If you have questions or need additional information regarding this project, please do not hesitate to call me.

Sincerely,

Vincent Carrica, PE

Enclosure/s

cc: Corey Stiner

JN: 29047 VPC/cla

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December 9, 2009

Ronald Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Valero Store 1221, 2550 Central Ave SE, Traffic Circulation Layout Re: Engineer's Stamp dated 12-04-09 (K16-D075)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 12-07-09, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

PO Box 1293

- 1. The number of parking spaces required by the zoning code is defined as 6 spaces, yet only 5 parking spaces are shown on the site. - Zaning spaces are shown on the site.
- 2. Please include two copies of the traffic circulation layout at the next submittal.

Albuquerque

NM 87103

www.cabq.gov

- 3. A shared driveway is shown between this site and lot 1A. Provide a copy of the cross access easement between these sites. - public alley
- 4. Show the 6-foot wide, ADA accessible pedestrian pathway from the right of way to the building.
- 5. Call out the width of all sidewalk, both existing and proposed.

6. Provide a detail for the proposed ramp.

A cross access easement is needed between lost 22, 23, and 25 (see Figure 23.6.3 of the Development Process Manual).

If you have any questions, you can contact me at 924-3991.

A 24-foot wide access aisle must be provided for two directional traffic.

Sincerely,

Kristal D. Metro, P.E.

Traffic Engineer, Planning Dept. Development and Building Services

File



June 23, 2010

Ronald Bohannan, P.E. Tierra West, LLC 5571 Midway Park Place NE Albuquerque, NM 87109

Re:

Valero Store 1221, 2550 Central Ave SE, Traffic Circulation Layout

Engineer's Stamp dated 6-18-10 (K16-D075)

Dear Mr. Bohannan,

The TCL submittal received 6-21-10 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation. Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.

PO Box 1293

If a temporary CO is needed, a copy of the original TCL that was stamped as approved by the City will be needed. This plan must include a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance," as well as the signed and dated stamp of a NM registered architect or engineer. Submit this TCL with a completed <u>Drainage and Transportation Information Sheet</u> to Hydrology at the Development Services Center of Plaza Del Sol Building.

Albuquerque

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed <u>Drainage and Transportation Information Sheet</u> to Hydrology at the Development Services Center of Plaza Del Sol Building.

www.cabq.gov

NM 87103

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Kristal D. Metro, P.E.

Traffic Engineer, Planning Dept.

Development and Building Services

C:

File

(REV. 1/28/2003rd)

PROJECT TITLE: Valero, Store #1221		ZONE MAP/DRG. FILE # K-16 /0 075		
DRB #:	EPC #:	WORK ORDER #:		
LEGAL DESCRIPTION	N Lots 22, 23, 24, Block 16, University Heights			
CITY ADDRESS:	2550 Central Ave, SE			
ENGINEERING FIRM			Vincent Carrica, P.E.	
ADDRESS: CITY, STATE:	5571 Midway Park Place NE Albuquerque, NM	_ PHONE: ZIP CODE:	(505) 858-3100 87109	
OITT, OTATE.	Albuqueique, ivivi		07109	
OWNER:	Diamond Shamrock Stations Inc.	CONTACT:		
ADDRESS:		PHONE:		
CITY, STATE:		ZIP CODE:		
		CONTACT.	• · · · · · · · · · · · · · · · · · · ·	
ARCHITECT: ADDRESS:	CAD Solutions, LLC 3436 New Castle Drive	PHONE:	Corey Stiner	
CITY, STATE:	Loveland, CO	ZIP CODE:	(970) 988-6302 80538	
OHT, STATE.	Eoverand, CO	_ ZIF CODE.	00000	
SURVEYOR:	Precision Surveys	CONTACT:	Larry Medrano	
ADDRESS:	5571 Midway Park Place, NE	PHONE:	(505) 856-5700	
CITY, STATE:	Albuquerque, NM	ZIP CODE:	87109	
CONTRACTOR:		_ CONTACT:		
ADDRESS: CITY, STATE:		_ PHONE: ZIP CODE:	·····	
OHT, STATE.			· · · · · · · · · · · · · · · · · · ·	
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	LAN RESUBMITTAL	S. DEV. PLAN FOR SUB'D. APPROVAL		
	GRADING & DRAINAGE PLAN	S. DEV. PLAN FOR BLDG. PERMIT APPROVAL		
GRADING PLA		SECTOR PLAN APPROVAL		
EROSION CONTROL PLAN ENCINEEDIS CERTIFICATION (LIXERO)		FINAL PLAT APPROVAL FOUNDATION PERMIT APPROVAL		
ENGINEER'S CERTIFICATION (HYDROLOGY) CLOMR/LOMR		BUILDING PERMIT APPROVAL		
X TRAFFIC CIRCULATION LAYOUT (TCL)		CERTIFICATE OF OCCUPANCY (PERM.)		
ENGINEERS CERTIFICATION (TCL)		CERTIFICATE OF OCCUPANCY (TEMP.)		
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OTHER			RMTAPPROVAL	
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NO			HVDDOLOOM	
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			SECTION	
DATE CHOMITTED.	6/21/2010	DV.	Vincent Carries DE	
DATE SUBMITTED:	0/2 1/20 I U	_BY:	Vincent Carrica, P.E.	

- 1. Conceptual Grading and Drainage Plans: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
- 2. Drainage Plans: Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
- 3. Drainage Report: Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.