

CITY OF ALBUQUERQUE

Planning Department
Suzanne Lubar, Director



Mayor Richard J. Berry

April 22, 2016

Dennis Lorenz, P.E.
Lorenz Design & Consulting
2501 Rio Grande Blvd. NW Suite A
Albuquerque, New Mexico 87107

RE: **Abundant Life Gymnasium**
2851 Arenal Rd SW
Revised Grading and Drainage Plan
Engineers Stamp Date 4/12/16 (M10D016)

Dear Mr. Lorenz,

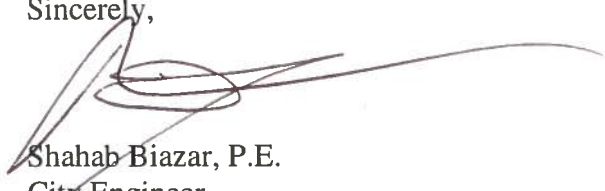
Based upon the information provided in your submittal received 4/20/2016, the above referenced Grading and Drainage Plan is acceptable for Grading Permit and Building Permit.

Attach a copy of this approved plan to the construction sets in the permitting process prior to sign-off by Hydrology. This plan is also approved for SO-19. Contact Jason Rodriguez at 235-8016 to schedule an inspection for the tie into the back of the inlet before and after concrete is placed. A separate Excavation/Barricading Permit is required for SO-19 construction within City ROW. A copy of this approval letter must be on hand when applying for the permit.

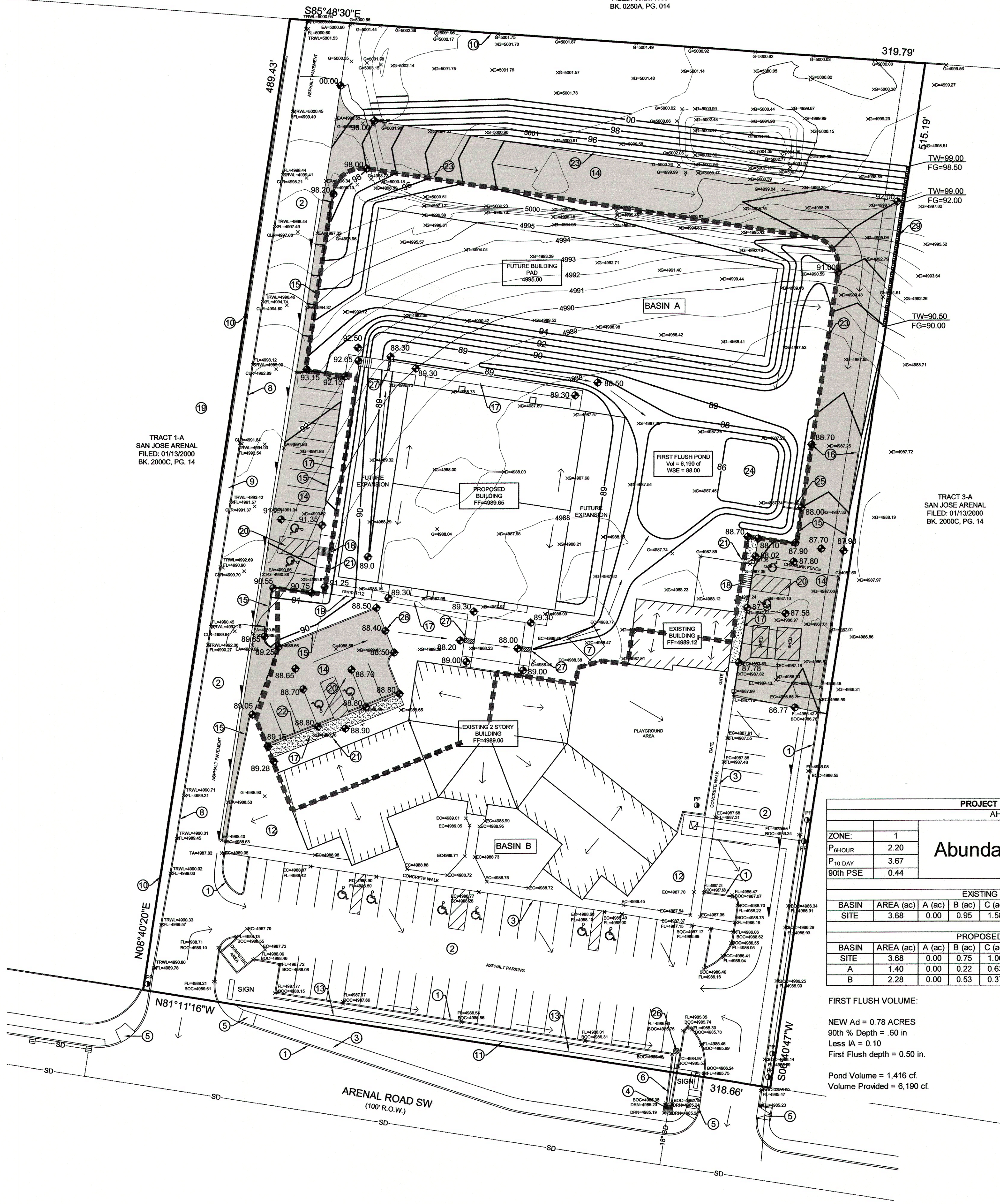
Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

If you have any questions you can contact me at 924-3999 or Rudy Rael at 924-3977.

Sincerely,


Shahab Biazar, P.E.
City Engineer
Planning Department

RR/SB
C: File



TRACT 1-A
SAN JOSE ARENAL
FILED: 01/13/2000
BK. 2000C, PG. 14

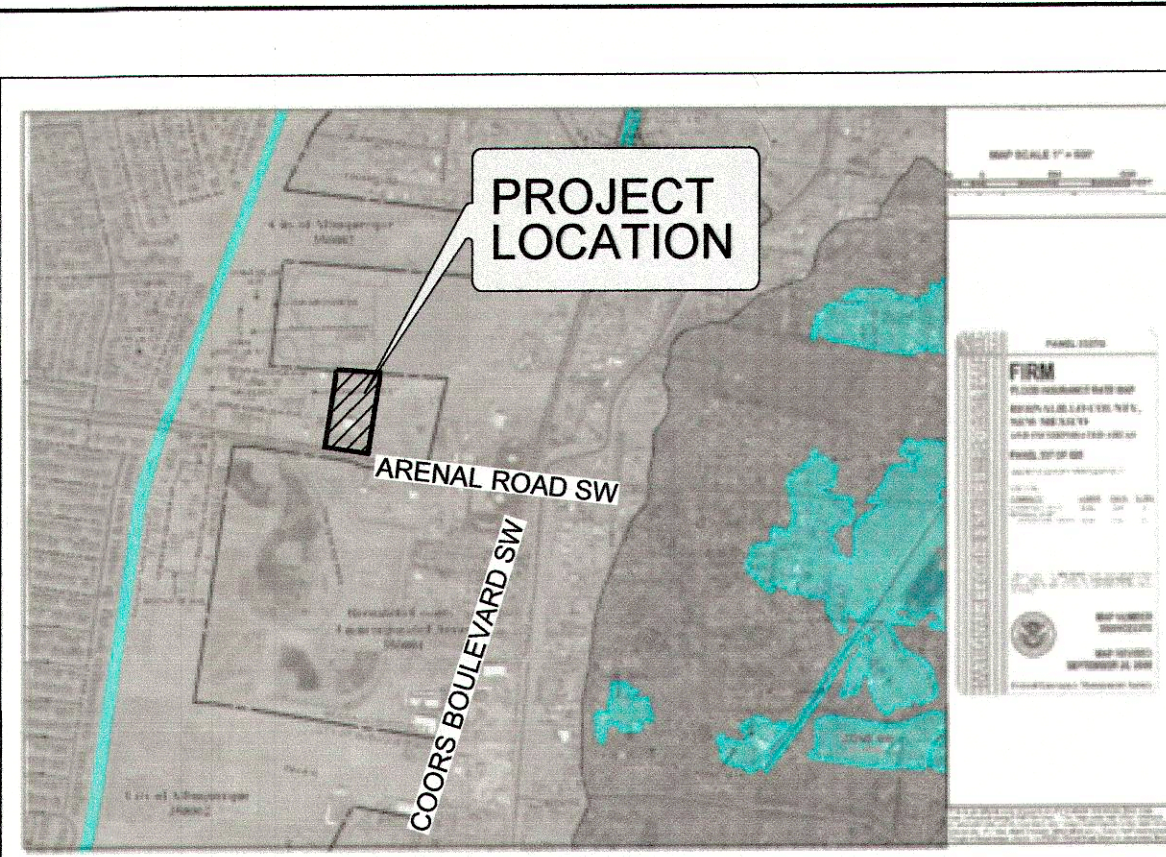
TRACT 3-A
SAN JOSE ARENAL
FILED: 01/13/2000
BK. 2000C, PG. 14

PROJECT HYDROLOGY								
AHYMO								
ZONE:	1	<div>Abundant Life Gymnasium</div>						
P ₆ HOUR	2.20							
P ₁₀ DAY	3.67							
90th PSE	0.44							
EXISTING CONDITIONS								
BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
SITE	3.68	0.00	0.95	1.58	1.15	1.21	11.49	0.372
PROPOSED CONDITIONS								
BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
SITE	3.68	0.00	0.75	1.00	1.93	1.44	12.83	0.441
A	1.40	0.00	0.22	0.63	0.55	1.32	4.66	0.155
B	2.28	0.00	0.53	0.37	1.38	1.51	8.17	0.287

FIRST FLUSH VOLUME:

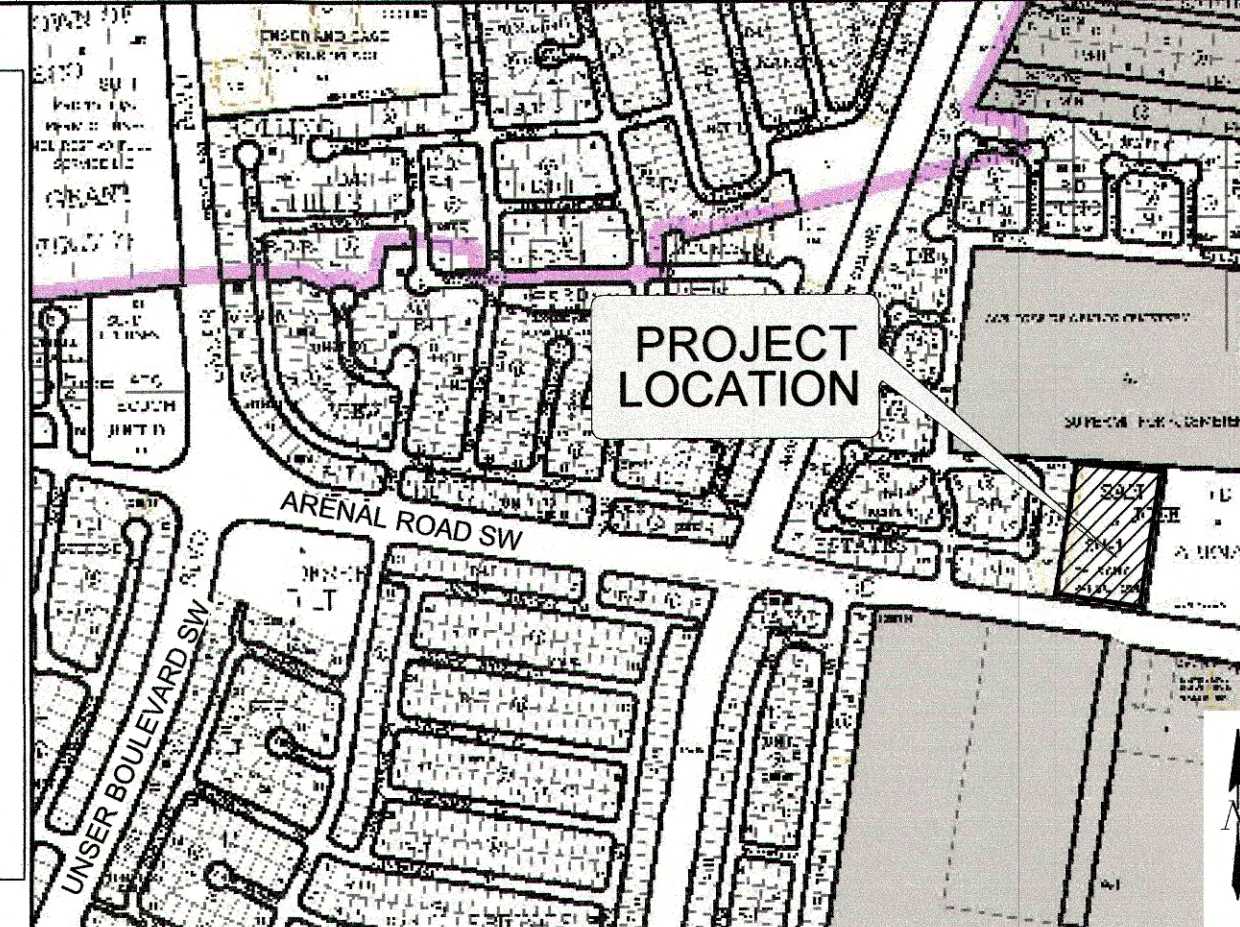
NEW Ad = 0.78 ACRES
90th % Depth = .60 in
Less IA = 0.10
First Flush depth = 0.50 in.

Pond Volume = 1,416 cf.
Volume Provided = 6,190 cf.



FIRM PANEL

35001CO337G



VICINITY MAP

ZONE ATLAS M-10-Z

KEYED NOTES

- EXISTING CONCRETE CURB.
- EXISTING ASPHALT PAVEMENT.
- EXISTING CONCRETE SIDEWALK.
- EXISTING STORM INLET.
- EXISTING HANDICAP RAMP.
- REMOVE AND REPLAC EXISTING CONCRETE CHANNEL PER DETAIL J/C-2.0.
- EXISTING CONCRETE PAD TO BE REMOVED AND DISPOSED.
- EXISTING RETAINING WALL.
- EXISTING SLOPE PAVEMENT.
- EXISTING BLOCK WALL.
- EXISTING WROUGHT IRON FENCE.
- EXISTING LANDSCAPING.
- EXISTING CMU RETAINING WALL - 2 COURSES HIGH.
- CONSTRUCT ASPHALT PAVEMENT.
- CONSTRUCT CONCRETE CURB.
- END CONCRETE CURB.
- CONSTRUCT CONCRETE SIDEWALK.
- CONSTRUCT HANDICAP RAMP-TYPE I PER DETAIL E/C2.0.
- CONSTRUCT HANDICAP RAMP AT 1:12 SLOPE MAX.
- INSTALL HANDICAP PARKING STRIPING PER CODE.
- INSTALL HANDICAP PARKING SIGNAGE PER CODE.
- NO CURB ALONG SIDEWALK. TOP OF PAVEMENT AT TOP OF SIDEWALK.
- INSTALL CONCRETE TIRE STOP.
- PROPOSED EDGE OF ASPHALT - NO CURB.
- CONSTRUCT STORMWATER RETENTION POND.
- CONSTRUCT CONCRETE OVERFLOW SPILLWAY PER DETAIL H/C2.0.
- CONSTRUCT STORMCEPTOR INLET & 18-INCH STORM DRAIN. SEE DETAIL J/C-2.0.
- INSTALL 18-INCH SIDEWALK CULVERT.
- PROVIDE 18-INCH CURB BLOCKOUT FOR DRAINAGE.
- CONSTRUCT RETAINING WALL. DESIGN BY OTHERS.

DRAINAGE PLAN NOTES

- LDC recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design.
- This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
- Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
- This Plan is prepared to establish on-site drainage and grading criteria only. LDC assumes no responsibility for subsurface analysis, foundation/structural design, or utility design.
- Local codes may require all footings to be placed in natural undisturbed soil. If the Contractor plans to place footings on engineered fill, a certification by a registered Professional Engineer will be required. If the contractor wishes LDC to prepare the Certification, we must be notified PRIOR to placement of the fill.
- LDC recommends that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
- The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.
- All spot elevations are finished grade or top of pavement, unless noted otherwise.
- The City of Albuquerque has received its EPA MS4 Permit for storm water quality with an effective date of March 1, 2012.
- In accordance with the City of Albuquerque drainage ordinance, effective may 12, 2014, all new development project's are required to manage the runoff which occurs during the 90th percentile storm event. In order to comply with this criteria, where practical, all surface drainage shall be routed through landscaped areas before release into downstream drainage facilities. This plan recommends all landscaped areas be depressed a minimum of 3-inches below the adjacent paved surface to retain the first flush runoff.

PROJECT DATA

SURVEY:

TOPOGRAPHIC SURVEY PERFORMED AND COMPILED BY HARRIS SURVEYING, INC., 2412-D MONROE STREET, NE, NEW MEXICO NOVEMBER 2014.

PROPERTY ADDRESS:

2851 ARENAL RD. SW, ALBUQUERQUE, NEW MEXICO

LEGAL DESCRIPTION:

TRACT 2-A, SAN JOSE ARENAL

PROJECT BENCHMARK

PROJECT BENCHMARK IS A FOUND CITY OF ALBUQUERQUE SURVEY CONTROL 3 1/4" ALUMINUM DISC STAMPED "4 M10 2002", TO REACH STATION FROM THE INTERSECTION OF COORS BOULEVARD AND ARENAL ROAD SW TRAVEL WEST ON ARENAL ROAD 0.48 MILES TO THE AMOLE DEL NORTE DIVERSION CHANNEL. THE STATION IS LOCATED ON THE SOUTH CURB ON CHANNEL CENTERLINE. ELEVATION = 5,011.16 FEET (NAVD 1988 VERTICAL DATUM).

LEGEND

ITEM	EXISTING	PROPOSED
CURB AND GUTTER		
HEADER CURB		
CURB ELEVATIONS		
SPOT ELEV.		16.7
RIGHT OF WAY		
EASEMENT		
CENTERLINE		
TOP OF ASPHALT ELEV.	TA 16.2	TA 16.2
RETAINING WALL		
FLOWLINE ELEV	EX FL 16.2	FL 16.2
FUTURE CURB AND GUTTER (N.I.C.)		
NEW PAVING		
DRAINAGE SWALE		
DIRECTION OF FLOW		
DRAINAGE BASIN DIVIDE		

GRADING AND DRAINAGE PLAN

PURPOSE AND SCOPE

Pursuant to the Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Grading and Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. The project consists of the construction of a 9,000 square foot gymnasium with paving, landscaping, utility, grading, and drainage improvements to support the project. The purpose of this Plan is to support building permit approval. The scope of this plan is to present grading and drainage criteria for the safe management of excess runoff impacting the site from upstream drainage basins, and controlling excess runoff from the project site in a well-managed, non-erosive manner.

EXISTING CONDITIONS

The property is located at 2851 Arenal Road SW, between Unser Blvd and Coors Road SW. The site is presently developed as Abundant Life Ministries. The southerly portion of the site is fully developed. The northerly portion is planned for future development. All excess runoff flows south by yard swales and paving improvements to an existing storm inlet located near the south east corner of the property. The inlet drains all site flows to a public storm drain located in Arenal Road SW. The north and west property boundaries are sealed by solid perimeter walls. The property to the east drains away from the property. No off-site flows impact the site.

As shown by the attached FIRM Panel, the site does not lie within a mapped 100 year Flood Zone.

DRAINAGE MASTERPLANS

The drainage plan of record, entitled *Grading and Drainage Plan for Abundant Life Church*, prepared by Frank Lovelady, PE, 10-29-1990, recommended temporary retention ponding pending construction of public storm drainage improvements. After construction of the Amole-Hubbel improvements, which captured all flows west of the project site, and the widening of Arenal Road in 2007, the retention ponds were removed. The project has functioned as a free discharge property since construction of those public improvements.

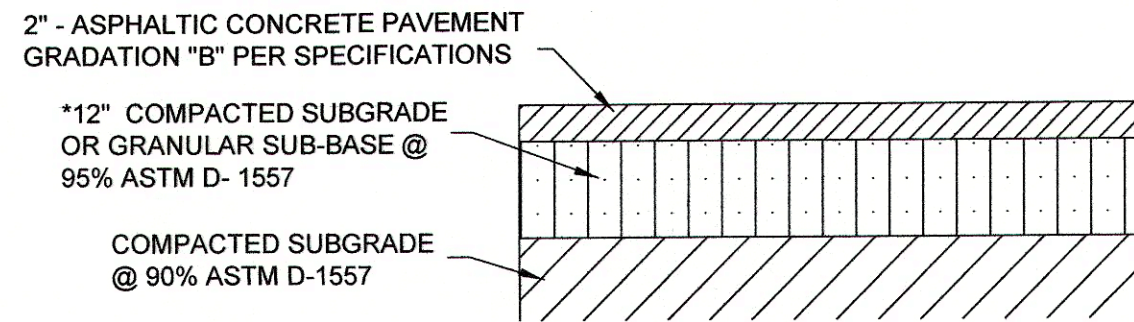
PROPOSED IMPROVEMENTS

As stated above, the project consists of the construction of a 9,000 square foot gymnasium with paving, landscaping, utility, grading, and drainage improvements. All developed runoff will be routed through landscaping to a retention pond capture the first flush before release into the perimeter streets. All excess runoff will be collected by the existing storm inlet and the public storm drain system located in Arenal Road SW. The channel draining to the existing storm inlet will be reconstructed to provide increased capacity. SO-19 permitting will apply.

Construction will disturb an area of more than 1.0 acres; therefore a Storm Water Pollution Prevention Plan will be required.

CALCULATIONS

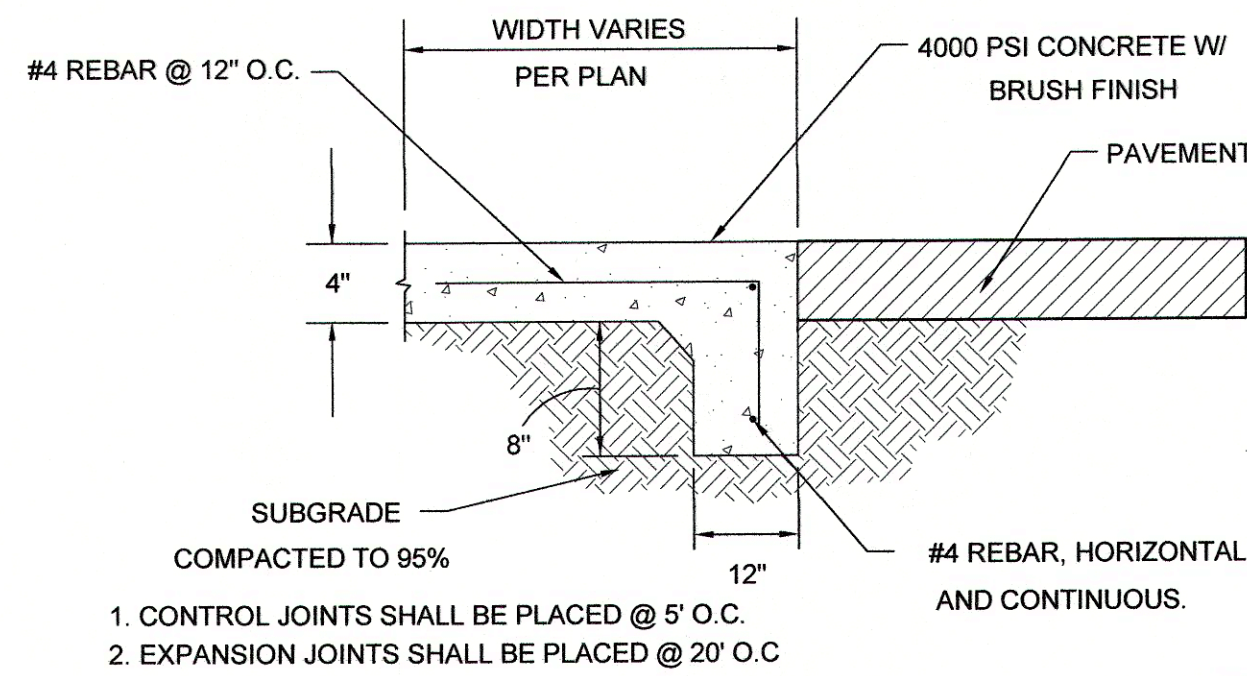
The calculations shown hereon define the 100-year/6 hour design storm falling within the project area under existing and proposed conditions. The hydrology is per "Section 22.2, Part A, Development Process Manual, Vol 2", dated June 1997.



ASPHALT PAVEMENT

NTS

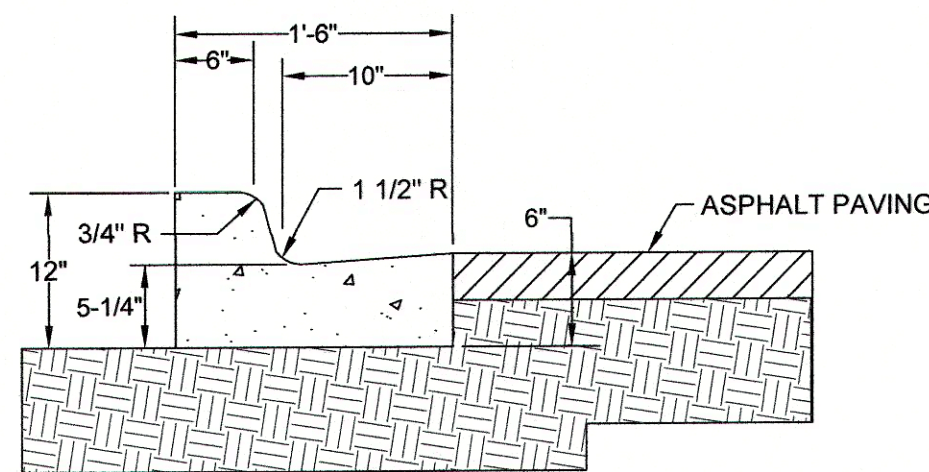
A
C-2.0



TURN DOWN SIDEWALK AT ACCESSIBLE ZONES

NTS

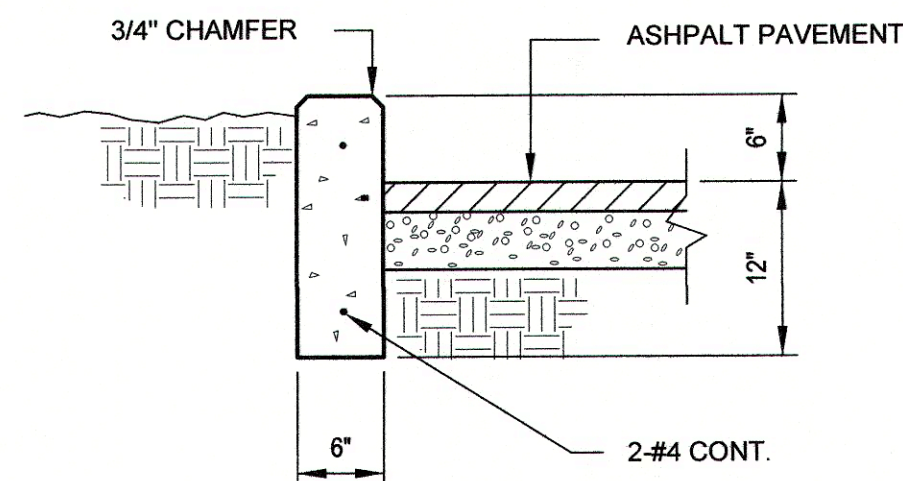
B
C-2.0



CONCRETE CURB AND GUTTER

NTS

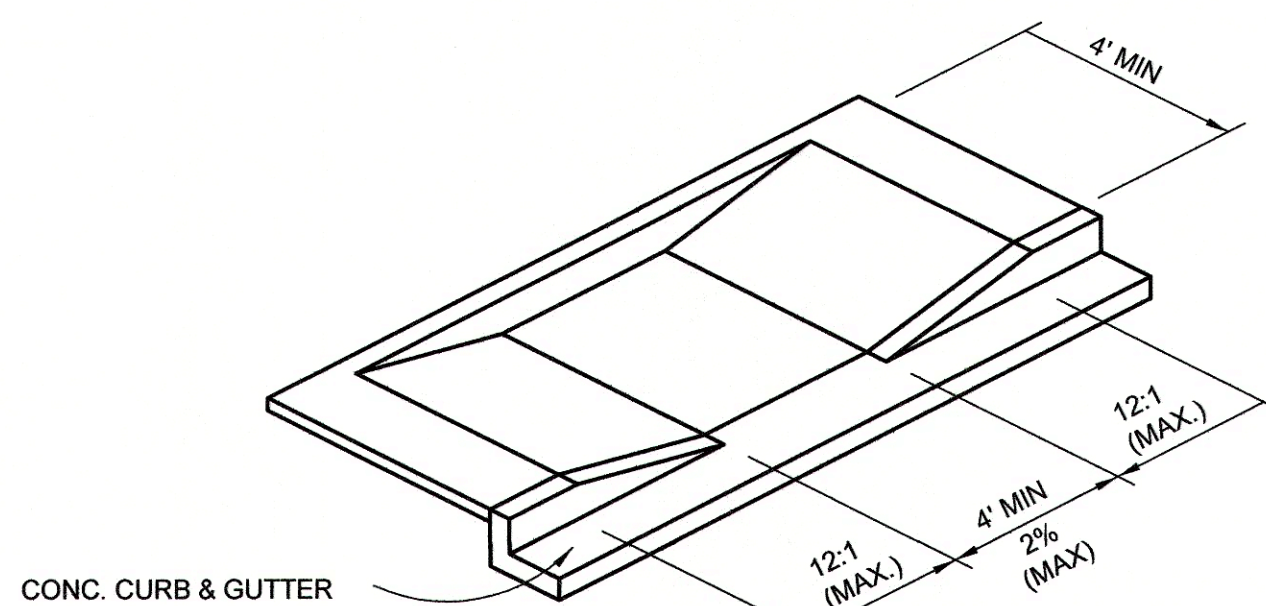
C
C-2.0



HEADER CURB DETAIL

NTS

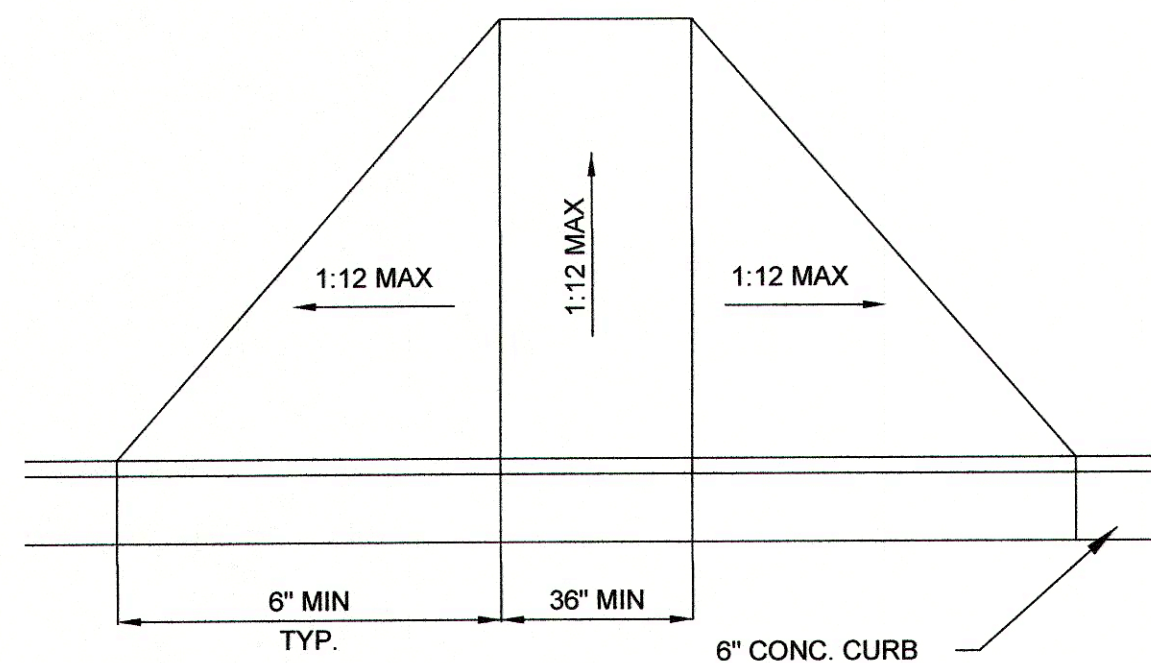
D
C-2.0



HANDICAP RAMP DETAIL - TYPE I

NTS

E
C-2.0

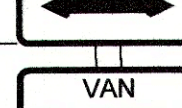
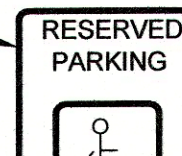


HANDICAP RAMP DETAIL - TYPE II

NTS

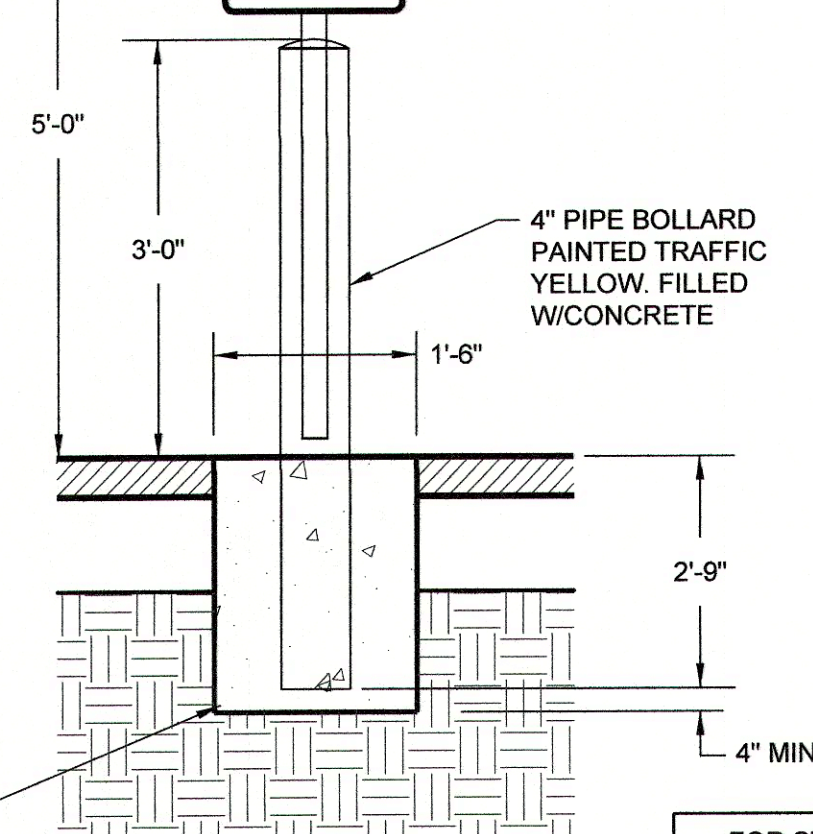
F
C-2.0

THIS SIGN TYPICAL AT
ALL HANDICAP PARKING
SPACES



THIS SIGN TYPICAL AT
ALL VAN ACCESSIBLE
PARKING SPACES

PENALTY SIGN WITH
WORDING AS REQUIRED
BY STATE OR LOCAL LAW

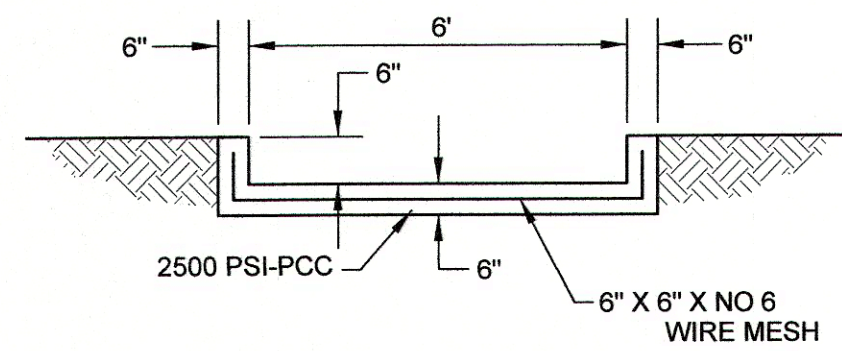


FOR STATIONARY
BOLLARD INSTALLATION
OMIT SIGN ASSEMBLY

HC SIGN ASSEMBLY / BOLLARD DETAIL

NTS

G
C-2.0



POND OVERFLOW SPILLWAY

NTS

H
C-2.0

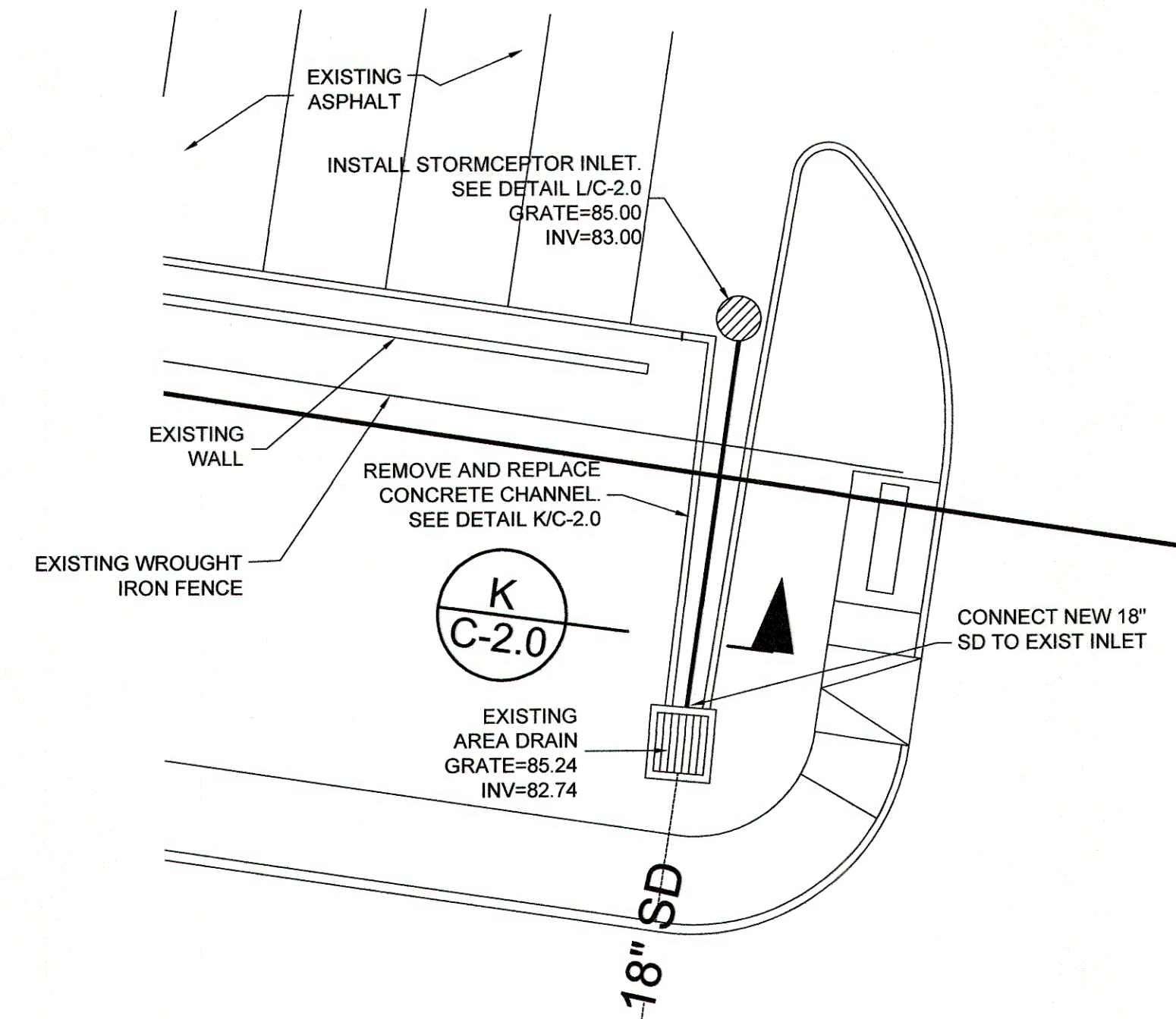
DRAINAGE FACILITIES WITHIN CITY RIGHT-OF WAY NOTICE TO CONTRACTOR

1. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", 1986 EDITION, AS AMENDED THROUGH UPDATE NO. 7.
3. THREE WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE.
4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

APPROVALS:

INSPECTOR

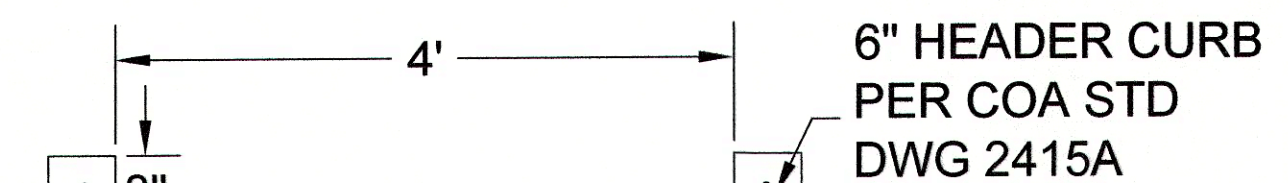
DATE



DRAINAGE CHANNEL DETAIL

NTS

J
C-2.0



ASPHALT PAVEMENT
PER A/C-2.0

DRAINAGE CHANNEL CROSS SECTION

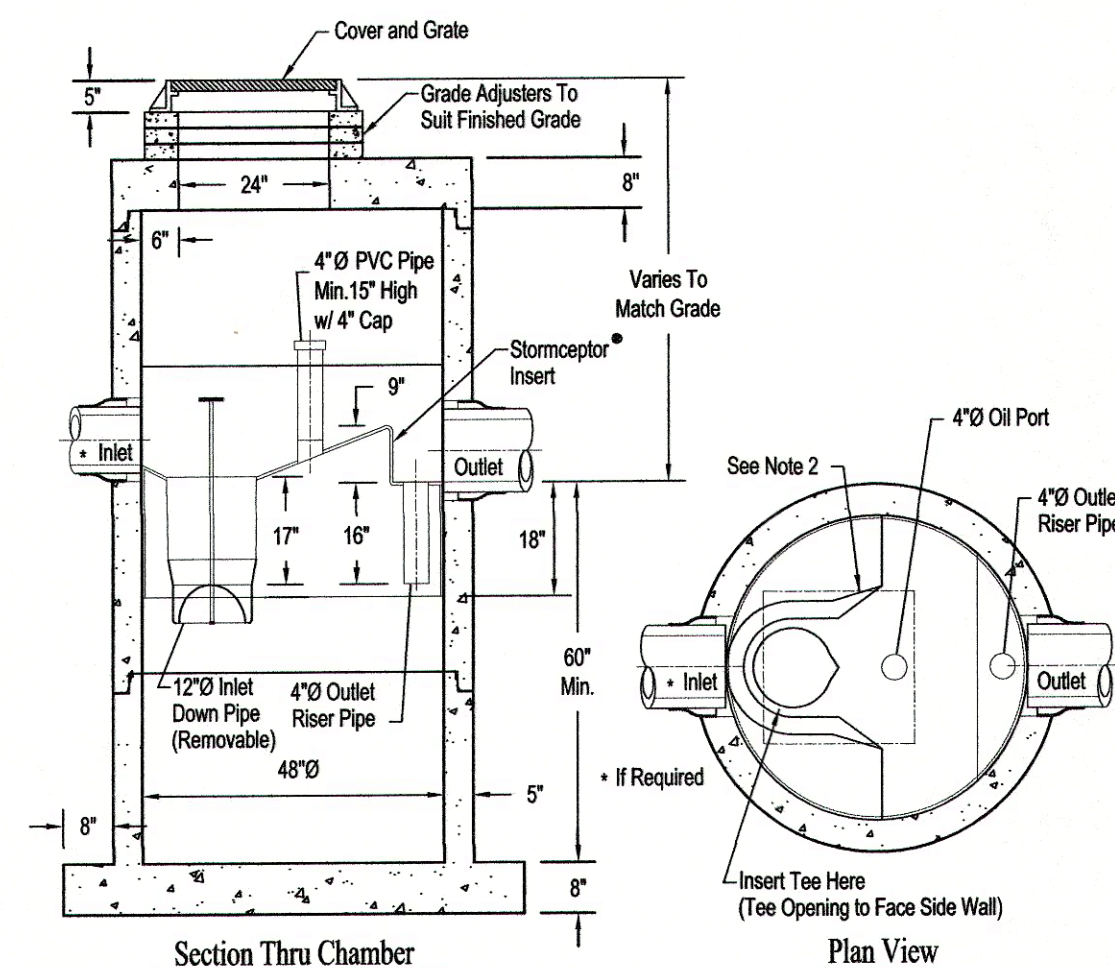
NTS

K
C-2.0

Rinker
MATERIALS

Concrete Pipe Division

STC 450i Precast Concrete Stormceptor® (450 U.S. Gallon Capacity)



Notes:

1. The Use Of Flexible Connection is Recommended at The Inlet and Outlet Where Applicable.
2. The Cover Should be Positioned Over The Inlet Drop Pipe and The Oil Port.
3. The Stormceptor System is protected by one or more of the following U.S. Patents: #4985148, #5498331, #5725760, #5753115, #5849181, #6068765, #6371690.
4. Contact a Concrete Pipe Division representative for further details not listed on this drawing.

Rinker 027

STORMCEPTOR INLET

L
C-2.0

SUPPLEMENTAL CALCULATIONS ABUNDANT LIFE GYMNASIUM

ALBUQUERQUE, NEW MEXICO

Prepared For:

Abundant Life Ministries
2851 Arenal Road SW
Albuquerque, New Mexico 87121

Prepared by:



August 2015



① POMS REQUIREMENT

- PROVIDE POMS FOR 1ST FLUSH OF NEW TYPE 'D' SURFACE.
- 1ST FLUSH VOL = 1416 CF

<u>POMS VOL</u>		
ELEV	AREA SF	VOL CF
84	855	—
87	3130	1992
88	5266	6190

* ADDITIONAL VOLUME PROVIDED FOR FUTURE DEVELOPMENT

② POMS SPILLWAY

Q₁₀₀ MAIN A = 4.66 CFS



$$Q = CLH^{3/2}$$

$$C = 2.5$$

$$L = 6'$$

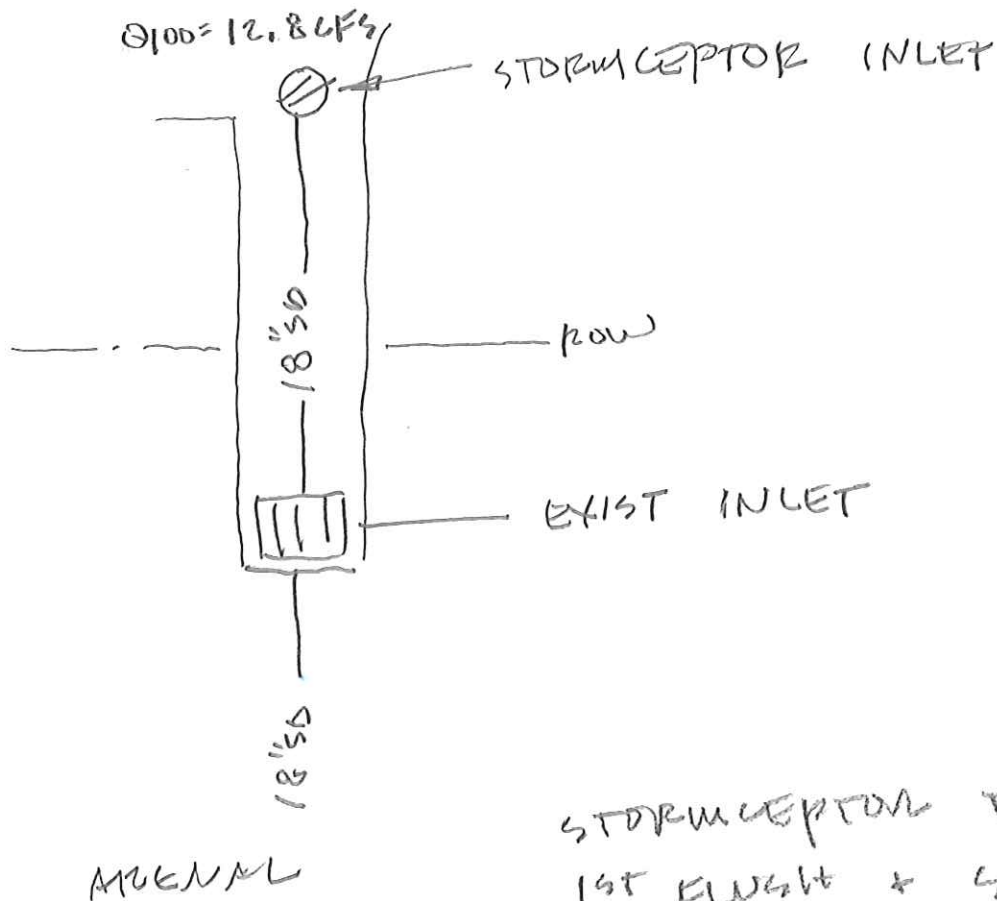
$$H = 0.5'$$

$$Q = 5.3 \text{ CFS} > Q_{100} \checkmark$$

3.78

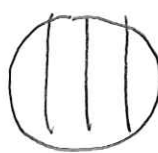
③ PROJECT OUTLET

Ⓐ INSTALL OIL/TRANS INLET UPSTREAM OF PUBLIC INLET.



STORMCEPTOR TO COLLECT
1ST FLUSH + SMALL STORMS
TO REMOVE TRASH + OIL
PUBLIC INLET TO COLLECT
100-YR FLOW.

(A) STORMWATER CAPACITY



24" DIA

OPEN $A = 1.57 \text{ SF}$

$$Q = CA \sqrt{2gh}$$

$$C = 0.6$$

$$A = 1.57 \text{ SF}$$

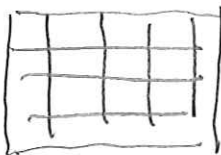
$$q = 32.2 \text{ F/s}^2$$

$$h = 6"$$

$$\Rightarrow Q = 5.35 \text{ cfs}$$

APPROX 2 LR STORM

(B) PUBLIC INLET



MINOR GRATE

OPEN $A = 7.33 \text{ SF}$

$$Q = CA \sqrt{2gh}$$

$$C = 0.6$$

$$A = 7.33 \text{ SF}$$

$$q = 32.2 \text{ F/s}^2$$

$$h = 0"$$

$$\Rightarrow Q = 28.9 \text{ cfs} > Q_{100}$$

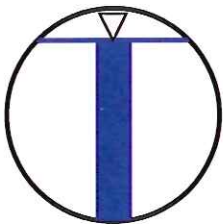
Free Online Manning Pipe Flow Calculator

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[Language](#)

Manning Formula Uniform Pipe Flow at Given Slope and Depth

[Can you help me translate this calculator to your language or host this calculator at your web site?](#)

Printable Title		STORMWATER OUTLET	
Printable Subtitle		Q = 5.35 cfs	
Set units: <input type="text" value="m"/> <input type="text" value="mm"/> <input type="text" value="ft"/> <input type="text" value="inches"/>		Results:	
Pipe diameter, d_0	1.5 ft ▼	Flow, q	10.8233 cfs ▼
Manning roughness, n ?	.013	Velocity, v	6.7607 ft/sec ▼
Pressure slope (possibly ? equal to pipe slope), S_0	.01 rise/run ▼	Velocity head, h_v	0.7104 ft ▼
Percent of (or ratio to) full depth (100% or 1 if flowing full)	.85 fraction ▼	Flow area	1.6010 ft ² ▼
		Wetted perimeter	3.5193 ft ▼
		Hydraulic radius	0.4549 ft ▼
		Top width, T	1.0712 ft ▼
		Froude number, F	0.98
		Shear stress (tractive force), τ	0.7961 psf ▼



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Last Modified 08/24/2015 09:50:31

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[Language](#)

Manning Formula Uniform Pipe Flow at Given Slope and Depth

[Can you help me translate this calculator to your language or host this calculator at your web site?](#)

Printable Title

PUMP INLET OUTLET

Printable Subtitle

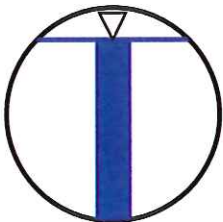
Q_{max} = 12.8 cfs

Set units:

Pipe diameter, d_0	<input type="text" value="1.5"/> <input type="text" value="ft"/>
Manning roughness, n ?	<input type="text" value=".013"/>
Pressure slope (possibly ? equal to pipe slope), S_0	<input type="text" value=".02"/> <input type="text" value="rise/run"/>
Percent of (or ratio to) full depth (100% or 1 if flowing full)	<input type="text" value=".85"/> <input type="text" value="fraction"/>

Results:

Flow, q	15.3065	<input type="text" value="cfs"/>
Velocity, v	9.5611	<input type="text" value="ft/sec"/>
Velocity head, h_v	1.4207	<input type="text" value="ft"/>
Flow area	1.6010	<input type="text" value="ft^2"/>
Wetted perimeter	3.5193	<input type="text" value="ft"/>
Hydraulic radius	0.4549	<input type="text" value="ft"/>
Top width, T	1.0712	<input type="text" value="ft"/>
Froude number, F	1.38	
Shear stress (tractive force), τ	1.5922	<input type="text" value="psf"/>



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Last Modified 08/24/2015 09:50:31

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 04/2009)

PROJECT TITLE: ABUNDANT LIFE GYMNASIUM ZONE MAP: M-10 D0006
DRB#: _____ EPC#: NA WORK ORDER#: NA

LEGAL DESCRIPTION: TRACT 2-A, SAN JOSE ARENAL

CITY ADDRESS: 2851 ARENAL ROAD SW

ENGINEERING FIRM: LORENZ DESIGN & CONSULTING CONTACT: DENNIS LORENZ
ADDRESS: 2501 RIO GRANDE BLVD. NW SUITE A PHONE: 888-6088
CITY, STATE: ALBUQUERQUE, NEW MEXICO ZIP CODE: 87104

OWNER: ABUNDANT LIFE MINISTRIES CONTACT: LOREN MILLER
ADDRESS: 2851 ARENAL ROAD SW PHONE: 401-2526
CITY, STATE: ALBUQUERQUE, NEW MEXICO ZIP CODE: 87121

ARCHITECT: RICK BENNETT ARCHITECTS CONTACT: R. BENNETT
ADDRESS: 1104 PARK AVENUE SW PHONE: 242-1859
CITY, STATE: ALBUQUERQUE, NEW MEXICO ZIP CODE: 87103

SURVEYOR: HARRIS SURVEYING CONTACT: G. MAPLES
ADDRESS: 2815-A MONROE NE PHONE: 889-8056
CITY, STATE: ALBUQUERQUE, NM ZIP CODE: 87110

CONTRACTOR: UNKNOWN CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

TYPE OF SUBMITTAL:

____ DRAINAGE REPORT
____ DRAINAGE PLAN 1st SUBMITTAL
xx DRAINAGE PLAN RESUBMITTAL
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ EROSION CONTROL PLAN
____ ENGINEER'S CERT (HYDROLOGY)
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT
____ ENGINEER'S CERT (TCL)
____ ENGINEER'S CERT (DRB SITE PLAN)
____ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL SOUGHT:

____ SIA/FINANCIAL GUARANTEE RELEASE
____ PRELIMINARY PLAT APPROVAL
____ S. DEV. PLAN FOR SUB'D APPROVAL
____ S. DEV. FOR BLDG. PERMIT APPROVAL
____ SECTOR PLAN APPROVAL
____ FINAL PLAT APPROVAL
____ FOUNDATION PERMIT APPROVAL
xx BUILDING PERMIT APPROVAL
____ CERTIFICATE OF OCCUPANCY (PERM)
____ CERTIFICATE OF OCCUPANCY (TEMP)
____ GRADING PERMIT APPROVAL
____ PAVING PERMIT APPROVAL
____ WORK ORDER APPROVAL
____ GRADING CERTIFICATION
____ OTHER (SPECIFY) SO-19 _____

WAS A PRE-DESIGN CONFERENCE ATTENDED:

xx YES
____ NO
____ COPY PROVIDED

DATE SUBMITTED: 04-18-2015 BY: DENNIS A. LORENZ

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** 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 subdivision containing more than ten (10) lots or constituting five (5) acres or more.



April 18, 2016

Rita Harmon, PE
Senior Engineer, Hydrology
Planning Department
City of Albuquerque
PO Box 1293
Albuquerque, New Mexico 87103

SUBJECT: ABUNDANT LIFE GYMNASIUM
Updated Grading and Drainage Plan (M10-D0006)

Dear Rita:

Submitted herewith for review and approval are 2 copies of the Updated Grading and Drainage Plan and Supplemental Calculations. The Plan and Calculations have been updated and revised to show adjustments to the finish floor elevation of the gymnasium and re-design of the accessibility improvements. The first flush pond is a bit smaller, but functions the same. No other changes were made. Building permit has been issued; therefore this submittal is made to ready the file for project closeout and CO approval.

I have made a submittal to Bernalillo County Public Works as well.

If you have any questions, please call.

Sincerely,

LORENZ DESIGN & CONSULTING, LLC

Dennis A. Lorenz, PE

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