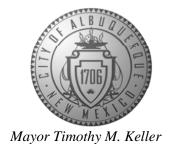
CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



January 16, 2020

Verlyn Miller Miller Engineering Consultants, Inc. 3500 Comanche NE Albuquerque, NM 87107

RE: 4517 Las Hermanas NW Grading and Drainage Plan Engineer's Stamp Date: 12/4/19 Hydrology File: G15D066

Dear Mr. Miller,

Based on the submittal received on 1/6/20, the above-referenced Grading and Drainage Plan cannot be approved until the following are corrected:

PO Box 1293

Prior to Grading Permit:

Albuquerque

NM 87103

1. This project is located in a floodplain (AH) and a floodplain development permit must be obtained. The permit application must demonstrate zero rise to the base flood elevation (through displaced volume), unless a Letter of Map Revision (LOMR) is being prepared. Please contact Rudy Rael, CFM for more information regarding floodplain development permits (rrael@cabq.gov or 924-3977).

www.cabq.gov

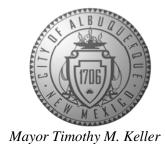
2. As part of the floodplain development permit, the following criteria will also need to be meet (A new elevation certificate will be necessary for the addition):

A portion of the proposed Building is located in a SFHA but the project does not include any storm drain improvements and/or channel modifications so:					
Storm o	tain improvements and/of chainer modifications so.				
1.	Approved G&D Plan is required (Engineer's Stamp Date) prior to issuance				
	of a Floodplain Development Permit,				
2.	Draft Elevation Certificate (Date) is required prior to issuance of a Building				
	Permit, and				
3.	Final Elevation Certificate and Engineer's Certification is required prior to Certificate of				
	Occupancy.				

3. No increased runoff to overcapacity systems can be authorized per § 14-5-2-12 (G) of the Albuquerque Code of Ordinances. Because this site is in a floodplain, capacity has already been exceeded and all increased runoff will need to be ponded onsite. You can use this pond volume to help show displaced volume, per comment 1, above; but the plan must state the excavated soil will be removed and disposed offsite.

CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



4. Stormwater Quality requirements do not need to be meet for individual residences, so this narrative can be removed. Also, sidewalk culverts are not required for less than collector streets, so this work (and the SO-19 permit requirement) can be removed if desired.

Prior to Building Permit (For Information):

- 5. An Engineer's Certification of the compacted pad and grading (Pad Certification), per the DPM Chapter 22.7: *Engineer's Certification Checklist for Non-Subdivision*, is required prior to issuing Building Permit.
- 6. A Draft Elevation Certificate is required prior to issuance of a Building Permit.

Prior to Certificate of Occupancy (For Information):

7. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision*, will be required to ensure the pond(s) remained intact and the finished floor was built to the design elevation.

PO Box 1293

8. A Final Elevation Certificate is required prior to Certificate of Occupancy.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Albuquerque

Sincerely,

NM 87103

www.cabq.gov

Dana Peterson, P.E.

Senior Engineer, Planning Dept. Development Review Services



City of Albuquerque

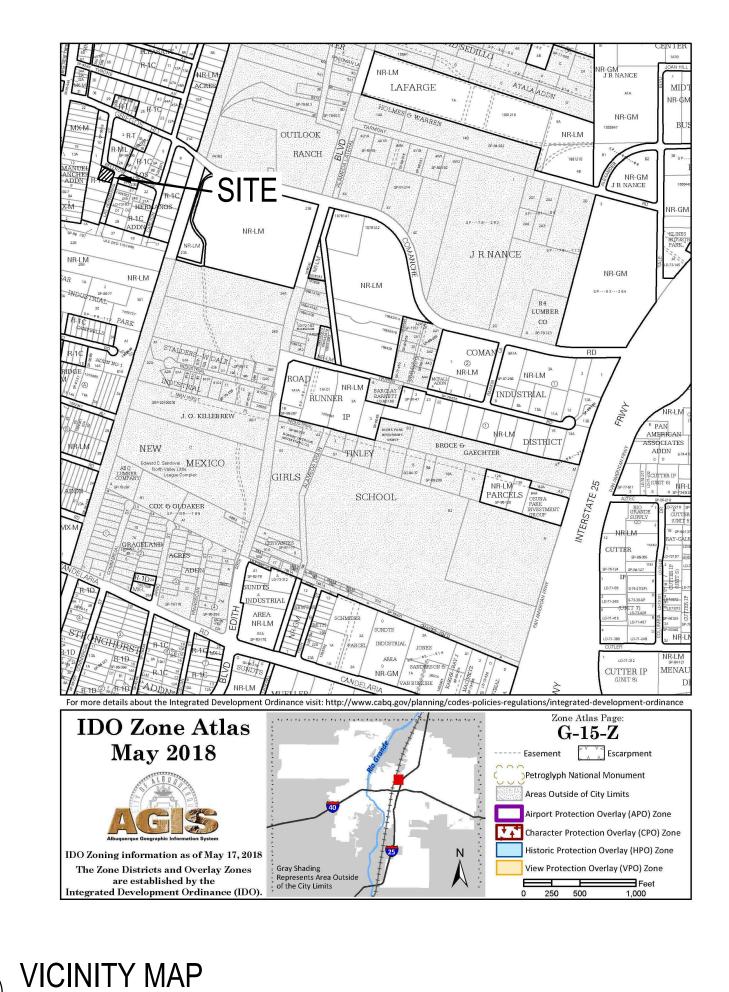
Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Ambriz Rivas			
DRB#:	_EPC#:	W	ork Order#:
Legal Description: *033 Los Hermonos			
City Address: 4517 Las Hermanas St. , Albuq	uerque, New Mexico 87107	7	
Applicant: Jose Rivas		Con	tact:
Address: 206B Sanchez Rd. NW, Albuqu	erque, New Mexico 87107		
Phone#: 505-730-6971	_Fax#:	E-m	ail: _ambrizrivas@gmail.co
Other Contact: Miller Engineering Consultants	Inc.	Con	tact: Verlyn Miller
Address: 3500 Comanche NE, Bldg. F, Albuque			
Phone#: 505-888-7500	Fax#: 505-888-3800	E-m	ail:vmiller@mecnm.com
TYPE OF DEVELOPMENT: PLAT			
IS THIS A RESUBMITTAL? Yes	XNo		
DEPARTMENT TRANSPORTATION	X HYDROLOGY	//DRAINAGE	
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATION PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT A ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TCL TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	APPLIC	BUILDING PERMIT A CERTIFICATE OF OG PRELIMINARY PLA' SITE PLAN FOR SUI SITE PLAN FOR BLI FINAL PLAT APPRO SIA/ RELEASE OF FI FOUNDATION PERMIT SO-19 APPROVAL PAVING PERMIT AI GRADING/ PAD CEI WORK ORDER APPRO CLOMR/LOMR FLOODPLAIN DEVE	CCUPANCY T APPROVAL B'D APPROVAL DG. PERMIT APPROVAL DVAL INANCIAL GUARANTEE MIT APPROVAL APPROVAL APPROVAL PPROVAL RTIFICATION DVAL
DATE SUBMITTED: 1-6-2019	By:Joste Ri	vas	
COA STAFF:	ELECTRONIC SUBMITTA	L RECEIVED:	

FEE PAID:_____



FEMA

SITE LOCATION

The proposed site is an approximate ¼ acre site located on Bellrose Ave. NW and Las Hermanas NW. The site is bound on the south by residential homes, on the north by Bellrose Ave. and on the east side by Las Hermanas NW.

EXISTING CONDITIONS

The existing site is estimated at 0.28 acres and is currently developed with an existing single-family residence with a driveway, sidewalks, and landscaping on the site. The site lies within an existing FEMA Floodplain (Zone AH) with a BFE of 4972, per the FEMA panel on this sheet.

PROPOSED CONDITIONS

The proposed project would consist of an addition to the existing single-family dwelling as indicated on the grading and drainage plan. The finish flood of the addition will be required to match the finish floor elevation of the existing single-family dwelling. A drainage swale and proposed first flush pond will be constructed on the site as indicated on the grading and drainage plan.

CONCLUSIONS

With BFE or Depth zone AE, Ad, AH, VE, AA

0.2% Annual Chance Flood Hazard, Areas

depth less than one foot or with drainag areas of less than one square mile Intelligence

Area with Reduced Flood Risk due to Levee. See Notes. Jone X

Area of Undetermined Flood Hazard 🕬

(a) 20.2 Cross Sections with 1% Annual Change

Base Flood Elevation Line (BFE)

Coastal Transect Baseline

Digital Data Available No Digital Data Available

The pindisplayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

Hydrographic Feature

17.5 Water Surface Elevation

- - Coastal Transact

Area with Flood Risk due to Levee 2044

NO SCREEN Area of Minimal Flood Hazard 2644 X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Effective LOMRs

Limit of Study

Jurisdiction Boundary

OTHER - Profile Baseline

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap

authoritative NFHL web services provided by FEMA. This map was exported on 11/12/2018 at 10:11:38 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for

When developed as indicated on the grading and drainage plan, the increased runoff from the site is estimated at 0.47 cfs, and 174 cf during the 100-year event. The first flush pond volume required for the project estimated at 36 cf. An SO-19 permit will be required for the installation of the sidewalk culvert that will be used for the overflow from the first flush pond.

Precipitation Zone 2 - 100-year Storm

GENERAL NOTES:

- EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY HARRIS SURVEYING, INC. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- 2. ELEVATIONS ARE BASED ON CITY OF ALBUQUERQUE STATION No. "18-G14", HAVING AN ELEVATION OF 4972.50, NAVD 1988.
 - TBM FOUND #4 REBAR WITH CAP "PS 11463" ELEV. 4973.161
- 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- 4. CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
- 5. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260–1990 FOR LOCATION OF EXISTING UTILITIES.
- 6. ALL EMBANKMENTS SHALL BE PLACED AND COMPACTED IN LIFTS OF MAXIMUM OF 8". THE EMBANKMENTS SHALL BE WETTED AND COMPACTED TO 95% OPTIMUM DENSITY PER ASTM D1557 AND 95% UNDER ALL STRUCTURES INCLUDING DRIVEWAYS AND PARKING LOTS.
- 7. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
- 8. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 9. APPROX. HALF OF SUBJECT PROPERTY IS LOCATED WITHIN ZONE X (SOUTH EASTERN % OF 4TH STREET FRONTAGE). THE REMAINING WESTERN AND NORTHERN PORTION OF THE PROPERTY IS LOCATED IN ZONE X (500 YEAR) DESIGNATING AREAS DETERMINED TO BE OUTSIDE THE 100-YEAR FLOOD PLANE ACCORDING TO THE FLOOD INSURANCE RATE MAP, ALBUQUERQUE, NEW MEXICO AND UNINCORPORATED AREAS PER MAP NO 35001C 0332G.
- 10. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE STORM DRAINAGE REGULATIONS. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF ALBUQUERQUE "GRADING AND DRAINAGE DESIGN REQUIREMENTS AND POLICIES FOR LAND DEVELOPMENT."
- 11. THE OWNER, CONTRACTOR AND/OR BUILDER SHALL COMPLY WITH ALL APPROPRIATE LOCAL, STATE AND FEDERAL REGULATIONS AND REQUIREMENTS.

- 12. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE AND REASONABLE MEASURES TO PREVENT SEDIMENT OR POLLUTANT LADEN STORM WATER FROM EXITING THE SITE DURING CONSTRUCTION. STORMWATER MAY BE DISCHARGED IN A MANNER, WHICH COMPLIES WITH THE APPROVED GRADING AND DRAINAGE PLAN.
- 13. THE CONTRACTOR SHALL TAKE ALL APPROPRIATE MEASURES TO PREVENT THE MOVEMENT OF CONSTRUCTION RELATED SEDIMENT, DUST, MUD, POLLUTANTS, DEBRIS, WASTE, ETC FROM THE SITE BY WIND, STORM FLOW OR ANY OTHER METHOD EXCLUDING THE INTENTIONAL, LEGAL TRANSPORTATION OF SAME IN A MANNER ACCEPTABLE BY THE CITY.
- 14. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE AREAS SHOWN AS "SLOPE LIMITS" ON THE GRADING AND DRAINAGE PLAN.
- 15. SEE ARCHITECTURAL DRAWINGS FOR SIDEWALK AND HANDICAPPED RAMPS, DETAILS AROUND THE BUILDING.
- 16. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE ANY SPOT ELEVATIONS ON THE GRADING AND DRAINAGE PLAN WHICH APPEAR TO BE AMBIGUOUS OR DO NOT MEET THE INTENT OF THE GRADING AND DRAINAGE PLAN.
- 17. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER FOR CLARIFICATION IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DOES NOT MEET ADA ACCESSIBILITY REQUIREMENTS. ALL SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2.0%, ALL SIDEWALKS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5.0%, AND ALL RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 15:1.
- 18. ALL SIDEWALKS AND CONCRETE FLATWORK SHALL HAVE A MINIMUM OF 0.5% SLOPE. CONTRACTOR SHALL CONTACT PROJECT ENGINEER IF THERE ARE SIDEWALKS OR CONCRETE FLATWORK WHICH DO NOT MEET THIS REQUIREMENT.
- 19. THE CONTRACTOR SHALL SUBMIT MATERIAL SUBMITTALS, CUT SHEETS AND SHOP DRAWINGS FOR ALL CIVIL RELATED ITEMS FOR REVIEW PRIOR TO CONSTRUCTION.
- 20. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS (UPDATE 8, AMENDMENT 1)
- 21. ALL EXISTING MANHOLES, VALVES AND METERS SHALL BE ADJUSTED TO NEW FINISH GRADE.

SPECIAL ORDER 19 DRAINAGE FACILITIES WITHIN THE 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 FOR HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7
- AMENDMENT 1.

 3) TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL 260—1990, FOR LOCATION OF EXISTING

CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

- UTILITIES.

 4) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACT SHALL NOTIFY THE ENGINEER SO THAT THE
- 5) BACK FILL 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.

 8) CONTRACTOR MUST CONTACT JASON RODRIGUEZ AT 235—8016 AND CONSTRUCTION COORDINATION AT 924—3416 TO SCHEDULE AN INSPECTION

CIVIL DRAWING INDEX

SHEET No.	SHEET TITLE
C-100	DRAINAGE REPORT AND DRAWING INDEX
C-101	GRADING AND DRAINAGE PLAN
C-501	MISCELLANEOUS DETAILS

DRAINAGE DATA

	Basin	I	and Treatr	nent Factor	· C				
Basin	Area	A	B	C	D D	Ew	V/(100 6)	V(100-24)	0/100
Dasiii		_ ^			D		,	, ,	•
	(Ac)		(Acres)		(in)	(af)	(af)	(cfs)
Existing Conditions									
Site	0.280	0.000	0.000	0.254	0.026	1.222	0.029	0.029	0.920
Total	0.280							0.029	0.920
Proposed	d Conditions	3							
Cita	0.280	0.000	0.000	0.224	0.056	1.33	0.031	0.033	0.967
Site	0.200								
Total	0.280		torm	P(360) -	1 52	in.	D(1/4/0) -	0.033	
Total		- 10-year S		P(360) = nent Factor	1.52 s	in	P(1440) =		0.967 in
Total	0.280 tion Zone 2	- 10-year S				in Ew	P(1440) =	1.8	in
Total Precipita	0.280 tion Zone 2	- 10-year S	and Treatr	nent Factor C	S			1.8	in
Total Precipita Basin	0.280 tion Zone 2 Basin Area	- 10-year S	and Treatr B	nent Factor C	S	Ew	V(10-6)	1.8 V(10-24)	in Q(10)
Total Precipita Basin	tion Zone 2 · Basin Area (Ac)	- 10-year S	and Treatr B	nent Factor C	S	Ew	V(10-6)	1.8 V(10-24)	in Q(10) (cfs)
Precipita Basin Existing (tion Zone 2 Basin Area (Ac) Conditions	- 10-year S L A	and Treatr B (Acres	nent Factor C	s D	Ew (in)	V(10-6) (af)	1.8 V(10-24) (af)	in Q(10) (cfs)
Precipita Basin Existing (Site Total	0.280 tion Zone 2 Basin Area (Ac) Conditions 0.280	- 10-year S L A	and Treatr B (Acres	nent Factor C	s D	Ew (in)	V(10-6) (af)	1.8 V(10-24) (af)	in Q(10) (cfs)
Precipita Basin Existing (Site Total	0.280 tion Zone 2 Basin Area (Ac) Conditions 0.280 0.280	- 10-year S L A	and Treatr B (Acres	nent Factor C	s D	Ew (in)	V(10-6) (af)	1.8 V(10-24) (af)	in Q(10)

Pond Rating Table							
Pond #1							
Pond Rating T	able	Spillway	Crest = 71.1				
Side Slope	2:1						
Depth	Area	Volume	Cum Volume				
(ft)	(sq ft)	(cubic fet)	(cubic feet)				
71.5	200	0	0				
72.1	308	152	152				
Pond Invert		71.5					
Spillway Crest		72.1					
WSE (First Flus	sh)	71.7					
WSE (100-year	•)	72.1					

FIRST FLUSH CALCULATIONS

BASIN A

VFF = (0.34 IN *1265 SF)/12

2.75 in

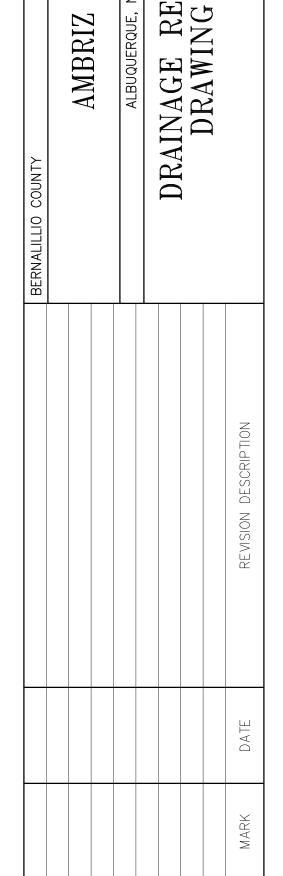
VFF = 35.8 CF

VOLUME PROVIDED = 152 CF



ZONE ATLAS MAP G-15-Z

National Flood Hazard Layer FIRMette



 \triangleleft

RIVAS

ORTS

C - 100



LEGEND:

PROPOSED SPOT ELEVATIONS	(FINISHED GRADE)		GRADE BREAK-HIGH POINT
MATCH EXISTING ELEVATIONS			SWALE
TOP OF CONCRETE		SD	STORM DRAIN LINE
FLOW LINE, CURB		EOOE	DDODOGED MA IOD CONTOU
INVERT		3893	PROPOSED MAJOR CONTOU
FINISH GRADE			PROPOSED MINOR CONTOUR
		5895	EXISTING MAJOR CONTOUR
			EXISTING MINOR CONTOUR
TOP OF GRATE			TOP OF CUT SLOPE
	MATCH EXISTING ELEVATIONS TOP OF CONCRETE FLOW LINE, CURB INVERT FINISH GRADE TOP OF BASE COURSE TOP OF CURB	FLOW LINE, CURB INVERT FINISH GRADE TOP OF BASE COURSE TOP OF CURB	MATCH EXISTING ELEVATIONS TOP OF CONCRETE FLOW LINE, CURB INVERT FINISH GRADE TOP OF BASE COURSE TOP OF CURB

TOP OF CUT SLOPE

GENERAL NOTES:

TOP OF ASPHALT

FLOW ARROW

- 1. TWO WORKING DAYS PRIOR TO ANY EXCAVATION CONTRACTOR MUST CONTACT LINE LOCATING SERVICE 260-1990 FOR LOCATION OR EXISTING UTILITIES.
- 2. BACKFILL AND COMPACTION FOR SITEWORK SHALL BE ACCORDING TO THE GEOTECHNICAL REPORT FOR THE PROJECT.
- 3. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER(S) OF THE PROPERTY SERVED.
- 4. THE CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- 5. ALL DISTURBED AREAS SHALL RECEIVE LANDSCAPE FABRIC WITH SEEDING, SEE GENERAL NOTES.
- 6. CONTRACTOR SHALL FIELD VERIFY THE FINISH FLOOR ELEVATIONS ON THE EXISTING BUILDINGS AND NOTIFY THE PROJECT ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 7. CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER IF THERE IS A CONFLICT BETWEEN THE STORM DRAIN LINES AND EXISTING UTILITIES, SO THAT THE PROPER ADJUSTMENTS CAN BE MADE PRIOR TO CONSTRUCTION.

KEYED NOTES

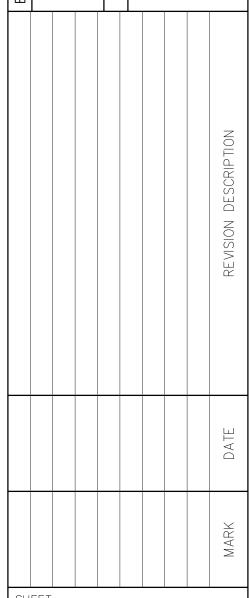
SCALE: 1"=10' CONTOUR INTERVAL = 1'

- 2. PROPOSED NEW BUILDING.
- 3. NEW EARTHEN SWALE SEE DETAIL SHEET C-501.
- 4. BUILD NEW FIRST FLUSH POND. SEE DETAIL SHEET C-501 FOR DETAILS. INV=71.0 DEPTH=6"
- 5. NEW 1' WIDE SIDEWALK CULVERT. SEE DETAIL SHEET C-501 FOR DETAILS. INV(IN) = 72.05INV(OUT) = 71.95
- 6. EXISTING CONCRETE DRIVEWAY TO REMAIN.
- 7. EXISTING CONCRETE SLAB AND SIDEWALK TO REMAIN.

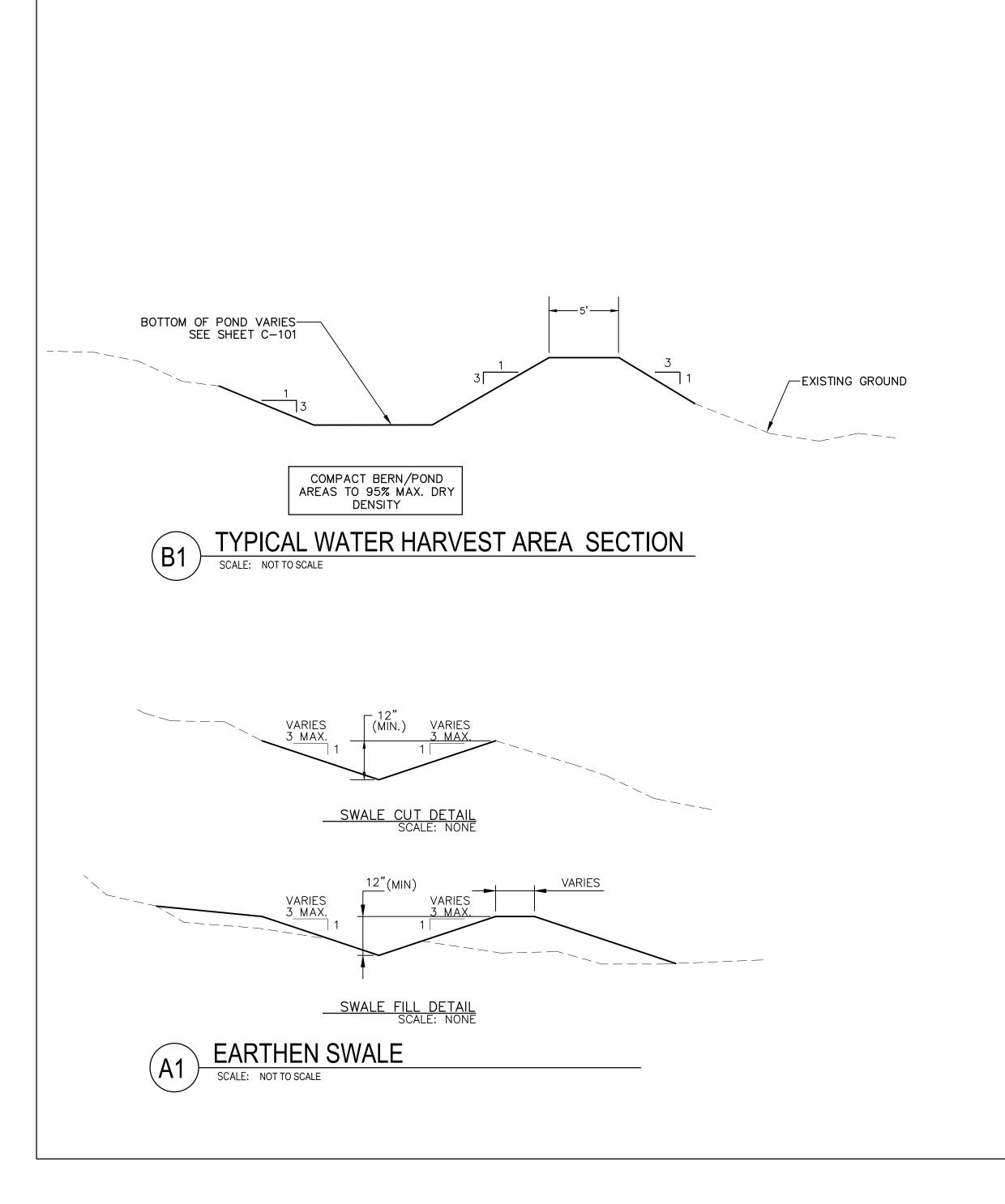
	MILLER ENGINI	MILLER ENGINEERING CONSULTANTS
		Engineers • Planners
	10B #	3500 COMANCHE NE
MEC	E	DEDG F AI BLIOTTEROTTE NM 87107
MEC	FILE	(505)888-7500 (505)888-7500 (505)888-3800 (FAX)
X	DATE 10 17 10	

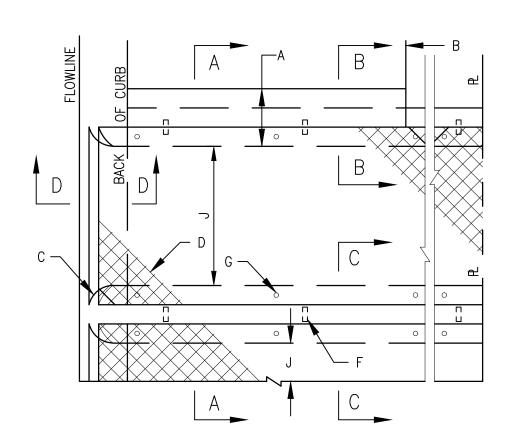


BERNALILLIO COUNTY NEW MEXICO	AMBRIZ RIVAS	ALBUQUERQUE, NEW MEXICO	GRADING AND DRAINAGE PLAN	
-------------------------------	--------------	-------------------------	---------------------------	--



C - 101





SINGLE CULVERT
OR TRIPLE CULVERT
SYMMETRICAL
ABOUT Q
ABOUT Q
ABOUT Q

INVERT

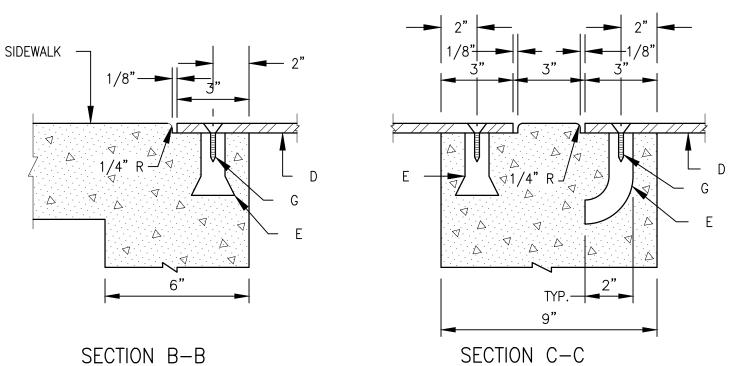
1/2" LIP

1/2" LIP

BOTTOM OF C. & G.

FLOWLINE ELEV.

PLAN SINGLE AND OR MULTIPLE CULVERT



5. SIDEWALK REPLACED DURING CONSTRUCTION SHALL BE POURED MONOLITHICALLY WITH CULVERT WALLS.

6. IF ROD ANCHORS ARE USED, DRILL & TAP FOR F.H.

7. LENGTH OF EACH PLATE SHALL BE SUCH THAT THE WEIGHT WILL NOT EXCEED 300 LBS. AND SHALL BE

SHOP COAT RED OXIDE AND TWO FINISH COATS

MAINTENANCE OF ANY SIDEWALK CULVERT INSTALLED

8. THE CITY WILL NOT ASSUME RESPONSIBILITY FOR

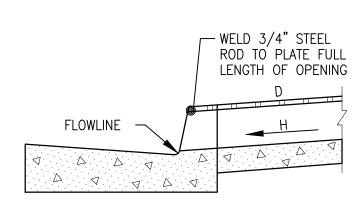
BY OR FOR PRIVATE PROPERTY OWNERS.

ALUMINUM PAINT (AASHTO M 69).

MACHINE SCREW. ATTACH ANCHORS TO PLATE AND

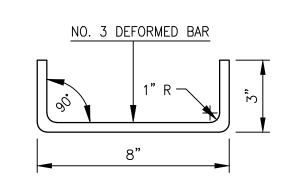
SECURE PLATE IN PLACE PRIOR TO POURING OF WALLS.

STRESS RELIEVED AFTER FABRICATION. CLEAN SURFACE OF PLATE AND FRAMING MEMBERS AND PAINT W/ ONE



SECTION A-A

SECTION D-D



DOWEL DETAIL

SIDEWALK CULVERT CONSTRUCTION NOTES:

- A. MATCH NEAREST CONTROL JOINT, INSTALL $rac{1}{2}$ " EXPANSION
- B. EDGE OF SIDEWALK OR SETBACK (VARIABLE).
- C. 3" RADIUS (TYPICAL).
- D. 3/8" CHECKERED STEELE PLATE (PRINT PER NOTE 7, ABOVE.
 E. FOR SECURING PLATE USE 1" x 5" S.S. ROD ANCHOR, "RED
 HEAD MULTI—SEE II SRM—38 ANCHOR" OR APPROVED EQUAL.
 INSTALL PER MANUFACTURER'S INSTRUCTIONS AT MAX. 24"
 O.C., A MINIMUM OF 2 PER SIDE AND ONE WITH 6" OF OF
 EACH END.
- F. CONSTRUCTION JOINT IS OPTIONAL. IF USED, SPACE DOWELS AT 18" O.C. MAX., 1½" MINIMUM FROM FACE OF CONCRETE G. 3/8 16 X 1 ¼" COUNTERSUNK, F.H., STAINLESS STEEL
- MACHINE SCREW. H. SLOPE 1/4" PER FT. MIN
- DRAIN WIDTH PER PLAN (12"., MIN., 24" MAX.).



AND SIDEWALK.

GENERAL NOTES:

DETAILED HEREIN.

SIDEWALK CULVERT DETAIL

SCALE: NOT TO SCALE

1. PLACING OF DRAIN THRU EXIST. SIDEWALK AND CURB

& GUTTER REQUIRES THAT ENTIRE SIDEWALK AND

C & G STONES BE REMOVED AND REPLACED AS

2. BOTTOM SLAB OF CULVERT SHALL BE POURED

3. THE INVERT SHALL BE TROWELED TO PRODUCE A

HARD POLISHED SURFACE OF MAX. DENSITY AND

SMOOTHNESS. INVERT SHALL BE V-SHAPED TO

WITHIN 3" OF OUTLET, THEN WARPED TO PARALLEL

COLOR, FINISH AND SCORING OF ADJACENT CURB

FLOWLINE AT OUTLET, UNLESS OTHERWISE SHOWN.

4. ALL EXPOSED CONC. SURFACE SHALL MATCH GRADE,

MONOLITHICALLY WITH NEW GUTTER.

RIVAS MISCELLANEOU AMBRIZ C - 501

T:\Clients\AMBRIZ RIVAS\LOS HERMANOS G & D\ACAD\SHEETS\C-501_Misc.Details.dwg, C-501_Misc. I