# CITY OF ALBUQUERQUE



Timothy M. Keller, Mayor

January 22, 2018

John Jacquez, E.I. Miller Engineering Consultants, Inc 3500 Comanche NE Bldg. F Albuquerque, NM, 87107

RE: Coors and Central – 100 Coors Blvd NW

**Grading Plan** 

Engineer's Stamp Date: 01/16/18

Hydrology File: K10D017

Dear Mr. Jacquez:

PO Box 1293

Based upon the information provided in your resubmittal received 01/16/2018, the Grading Plan is approved for Building Permit and SO-19 Permit.

Albuquerque

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.

NM 87103

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

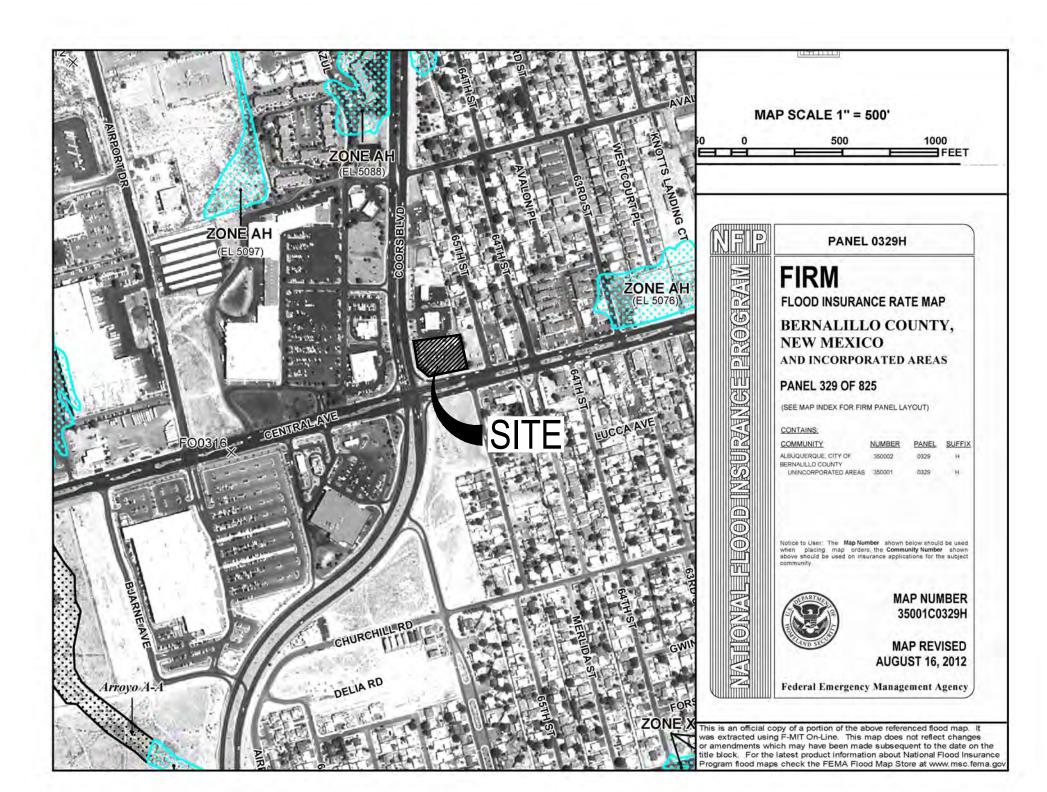
www.cabq.gov

Sincerely,

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology Planning Department

Renée C Brissette





SITE LOCATION

100 COORS BLVD. N.W. IN ALBUQUERQUE, NM. THE BOUNDARY IS RECTANGULAR IN SHAPE AND BOUNDED BY EXISTING BUSINESS TO THE EAST, EXISTING BUSINESS TO THE NORTH, CENTRAL AVE. N.W. TO THE SOUTH, AND COORS STREET N.W. TO THE

EXISTING ON SITE CONDITIONS

THE SITE IS PARTIALLY DEVELOPED WITH AN EXISTING BUILDING AND AN EXISTING ASPHALT PAVED PARKING AREA ALONG CENTRAL NW AND COORS STREET NW. THE SITE IS ACCESSED FROM CENTRAL STREET NW ON THE SOUTH SIDE OF THE SITE. THE PROPERTY HAS ONE DRAINAGE BASIN, WHICH IS IDENTIFIED AS BASIN A. THIS REPORT FOCUSES ON THE PRE AND POST HYDROLOGY. BASIN A DRAINS TO THE WEST SOUTHWEST TO SOUTHEAST CORNER OF THE SITE VIA SURFACE FLOWS. THE DRAINAGE DATA ON THIS PAGE SUMMARIZES THE EXISTING PEAK DISCHARGE AND RUNOFF VOLUME FOR BASIN A.

#### PROPOSED CONDITIONS

THE PROPOSED DEVELOPMENT OF THE SITE WILL CONSIST OF 10,831 SQUARE FOOT BUILDING, ASSOCIATED CONCRETE FLATWORK, SIDEWALKS, ASPHALT PARKING LOT, AND LANDSCAPING. THE PROPOSED IMPROVEMENTS ARE ALL LOCATED IN PROPOSED DRAINAGE BASIN A. A SMALL PORTION OF OF BASIN A WILL FREE DISCHARGE INTO CENTRAL STREET VIA SURFACE FLOW. THE REMAINDER OF BASIN A, INCLUDING THE PROPOSED BUILDING WILL DISCHARGE INTO THE WATER HARVEST AREA (RETENTION) ALONG THE SOUTHEAST PORTION OF THE PROPERTY. THE DRAINAGE DATA ON THIS PAGE SUMMARIZES THE PROPOSED PEAK DISCHARGE AND RUNOFF VOLUME FOR BASIN A.

#### OFFSITE FLOWS

THERE ARE NO OFFSITE FLOWS THAT DRAIN ONTO THE SITE.

#### CONCLUSION

RUNOFF VOLUME AND FLOW RATE INCREASED AS A RESULT OF CHANGES IN LAND TREATMENTS FOR BASIN A BY 0.027 ACRE FEET AND THE PEAK FLOW RATE HAS INCREASED BY 0.43 CFS. THE PROPOSED RUNOFF VOLUME OF 0.168 AF MINUS THE 7 PROPOSED POND VOLUME OF 0.050 AF IS 0.118 AF WHICH IS LESS THAN THE EXISTING RUNOFF VOLUME OF 0.141 AF. THEREFORE THE PROPOSED IMPROVEMENTS ON THE SITE WILL IMPROVE THE DOWNSTREAM CAPACITY.

THE PROPOSED GRADING IMPROVEMENTS WILL INCLUDE SIDEWALK CULVERTS, DRAINAGE SWALES, CURB AND GUTTERS AND CURB CUTS ALLOWING STORMWATER INTO AND OUT OF THE PROPOSED WATER HARVESTING AREA. THIS WATER HARVESTING AREA WILL BE USED TO MANAGE THE FIRST FLUSH AS REQUIRED BY THE RECENT CITY OF ALBUQUERQUE DRAINAGE ORDINANCE CHANGES. THE VOLUME OF THE FIRST FLUSH FOR THE SITE (0.44-0.1 INCHES \* IMPERVIOUS AREA)= 936.89 cf. THE WATER HARVEST AREA VOLUME = 2,178 cf (@ SPILLWAY INVERT) > 936.89 cf. THEREFORE THE PROPOSED POND MANAGES THE FIRST FLUSH. (SEE CALCULATIONS BELOW). ALL PROPOSED IMPERVIOUS AREAS WILL BE DISCHARGED THROUGH THE PROPOSED WATER HARVEST AREA.

#### GENERAL NOTES:

- EXISTING TOPOGRAPHIC DATA SHOWN ON THESE PLANS WAS PROVIDED BY SURV-TEK SURVEYING, INC. MILLER ENGINEERING CONSULTANTS HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION.
- 2. VERTICAL DATUM IS BASED ON THE ALBUQUERQUE CONTROL SURVEY BENCHMARK "12-E14" HAVING A PUBLISHED ELEVATION OF 4978.63' (NAVD 1988).

TBM SET PK NAIL WITH ALUMINUM DISK "LS 9750" IN ALLEY JUST SOUTHWEST OF THE SOUTHWEST PROPERTY CORNER. ELEV. 4965.21.

- 3. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES DURING THE CONSTRUCTION PHASE.
- CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF ALBUQUERQUE, PRIOR TO ANY GRADING OR CONSTRUCTION.
- 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.
- 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. THE SUBJECT PROPERTY (AS SHOWN HEREON) APPEARS TO LIE WITHIN ZONE "X" (AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.) IN ACCORDANCE WITH THE NATIONAL FLOOD INSURANCE PROGRAM RATE MAP NO. 35001C0329 H, EFFECTIVE DATE 8-16-2012.
- 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.

WATER HARVEST VOLUMES

WATER HARVEST AREA 1 proposed

Pond Rating Table

Depth Area

(ft) (sq ft) (ac)

415 0.010

910 0.021

1149 0.026

499 0.011

Side Slope

89

- 15. THE CONTRACTOR SHALL SUBMIT A SEED MIX DESIGN TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO STARTING THE SEEDING ON THE PROJECT. THE SEED MIX DESIGN SHALL BE A SEED MIX RECOMMENDED BY THE NRCS FIELD OFFICE REPRESENTATIVE THAT IS APPROPRIATE FOR THE PROJECT LOCATION. ALL DISTURBED AREAS WITH SLOPES LESS THAN 3:1 SHALL RECEIVE CLASS "A" SEEDING. ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 3:1 SHALL RECEIVE STEEP SLOPE SEEDING. THE STEEP SLOPE SEEDING SHALL CONSIST OF SEEDING IN CONJUNCTION WITH A 100% COCONUT FIBER BLEND EROSION BLANKET (NORTH AMERICAN GREEN C125) OR APPROVED EQUAL. ALL MATERIALS, EQUIPMENT AND LABOR ASSOCIATED WITH THE PROPER CONSTRUCTION OF THE STEEP SLOPE SEEDING WILL BE CONSIDERED INCIDENTAL AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE FOR THIS MATERIAL OR WORK. THE COCONUT FIBER EROSION BLANKET AND ASSOCIATED SEEDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE PROJECT ENGINEER PRIOR TO CONSTRUCTION.
- 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.

#### Private Drainage Facilities within City Right-of-Way **Notice to Contractor** (Special Order 19 ~ "SO-19")

- 1. An excavation permit will be required before beginning any work within City Right-Of-Way.
- 2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
- 3. Two working days prior to any excavation, the contractor must contact New Mexico One Call, dial "811" [or (505) 260-1990] for the location of existing utilities.
- 4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. 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.

#### CITY INSPECTOR APPROVAL

Signature Date



## DRAINAGE DATA

Volume

(ac-ft)

0.000

0.010

0.016

0.024

Cum Volume

(ac-ft)

0.000

0.010

0.027

0.050

	Basin	Land Treatment Factors							
Basin	Area	Α	В	С	D	Ew	V(100-6)	V(100-24)	Q(100)
	(Ac)	4.2	(Acres	)		(in)	(af)	(af)	(cfs)
Existing	Conditions				2 4 6 4 4				
A	1.00	0.20	0.00	0.24	0.56	1.43	0.119	0.141	3.39
Total	1.00				1				3.39
Propose	d Conditions	5							
A	1.00	0.12	0.00	0.12	0.76	1.67	0.139	0.168	3.82
Total	1.00								3.82

F	Basin	Land Treatment Factors							
Basin	Area	Α	В	С	D	Ew	V(10-6)	V(10-24)	Q(10)
	(Ac)		(Acres			(in)	(af)	(af)	(cfs)
Existing (	Conditions								
Α	1.00	0.20	0.00	0.24	0.56	0.82	0.068	0.082	2.02
Total	1.00								2.02
Proposed	d Conditions	3				Çe.E.I			
A	1.00	0.12	0.00	0.12	0.76	1.00	0.084	0.103	2.40
Total	1.00								2.40

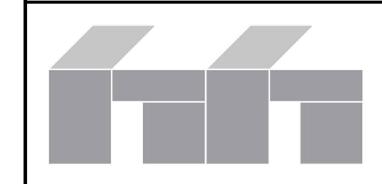
CONSULTANT:

MILLER ENGINEERING CONSULTAN

Engineers • Planne 3500 COMANCHE, NE BUILDING F ALBUQUERQUE, NM 8710 (505)888-7500 (505)888-3800 (FAX)

WWW.MECNM.COM

ARCHITECT:



Architect:

Clint Wilsey / 66Architect, LLC clint.wilsey@gmail.com 505 280-0043

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ISS	UE:	PERMIT SET	

## **COORS AND CENTRAL**

100 COORS BLVD. NW Albuquerque, NM

DATE.	

SHEET TITLE:

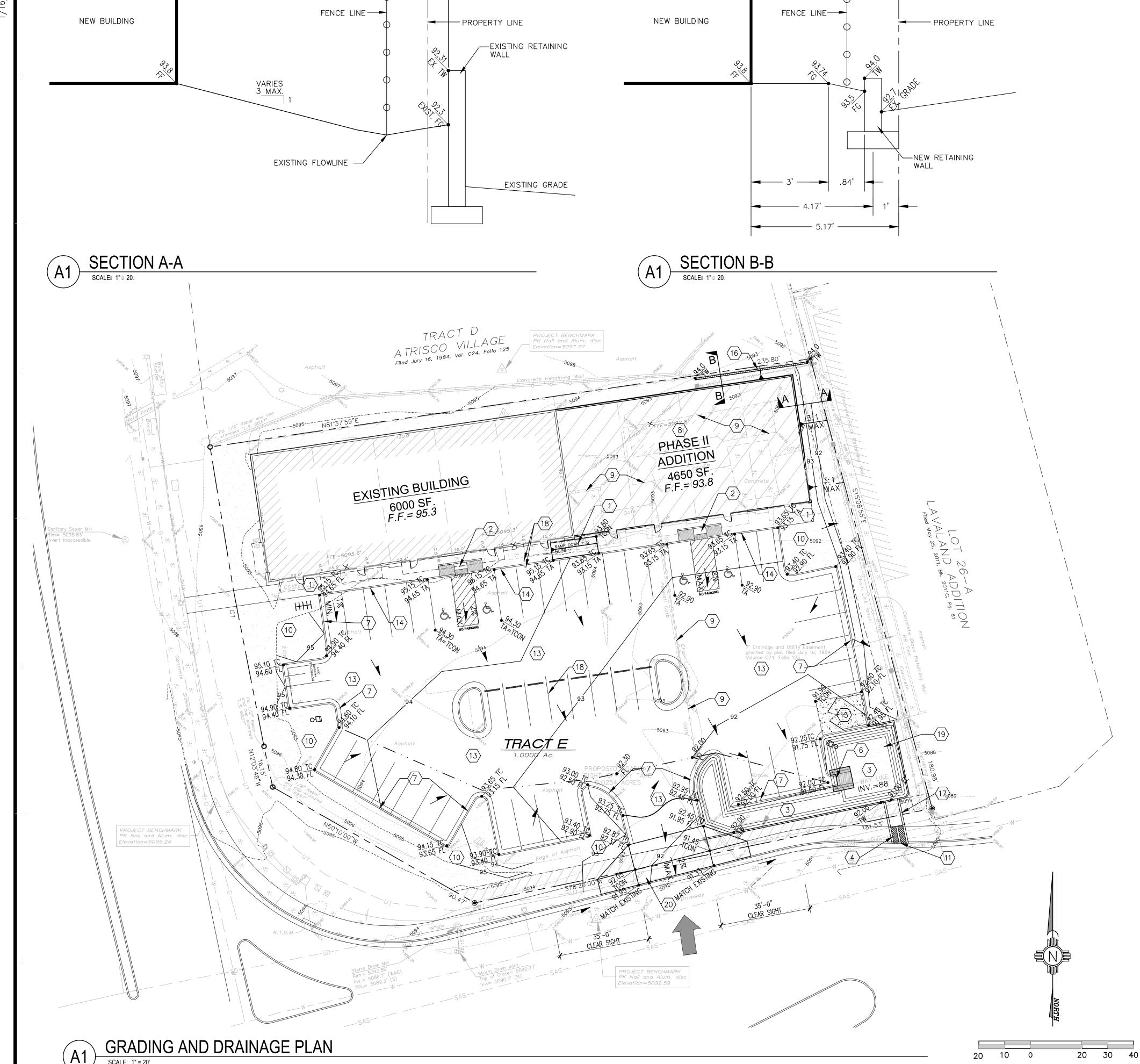
**GRADING AND** 

DRAINAGE **REPORT** 

9/20/17

C-001





### LEGEND:

• 38.00 FG	PROPOSED SPOT ELEVATIONS (FINISHED GRADE)		GRADE BREAK-HIGH POINT
• <u>MAT</u> CH (95.19)	MATCH EXISTING ELEVATIONS	· · · ·	SWALE
TCON FL	TOP OF CONCRETE FLOW LINE, CURB	SD	STORM DRAIN LINE
INV	INVERT	<del></del>	PROPOSED MAJOR CONTOUR
FG	FINISH GRADE		PROPOSED MINOR CONTOUR
TBC	TOP OF BASE COURSE		
TC	TOP OF CURB	5895	EXISTING MAJOR CONTOUR
TG	TOP OF GRATE		EXISTING MINOR CONTOUR
	FLOW ARROW		

# GRADING AND DRAINAGE NARRATIVE

THE PROJECT SITE IS LOCATED AT 100 COORS BLVD. N.W. IN ALBUQUERQUE, NM. THE PROPERTY BOUNDARY IS MOSTLY RECTANGULAR IN SHAPE WITH A PORTION OF THE SOUTHWEST CORNER OUT TO RIGHT-OF-WAY. THE PROPERTY IS BOUNDED BY AN EXISTING BUSINESS TO THE EAST, AN EXISTING BUSINESS TO THE NORTH, CENTRAL AVE. N.W. TO THE SOUTH, AND COORS ROAD N.W. TO THE WEST. THE SITE IS PARTIALLY DEVELOPED WITH AN EXISTING BUILDING AND AN EXISTING ASPHALT PAVED PARKING AREA LOCATED SOUTH OF THE BUILDING ALONG CENTRAL AVENUE N.W. AND COORS ROAD N.W. THE SITE IS ACCESSED FROM CENTRAL AVENUE N.W. ON THE SOUTH SIDE OF THE SITE. THE PROPERTY GENERALLY SLOPES FROM THE NORTHWEST TO THE SOUTHEAST AT APPROXIMATELY 1.7%.. THERE ARE EXISTING RETAINING WALLS THAT RUN ALONG THE NORTH SIDE OF THE PROPERTY AND ALONG THE EAST SIDE OF THE PROPERTY. THE PROPOSED BUILDING WILL BE CONSTRUCTED NEAR THE EAST SIDE OF THE PROPERTY, ADJACENT TO, AND ATTACHED TO THE EXISTING BUILDING LOCATED NEAR THE WEST SIDE OF THE PROPERTY. THE NEW BUILDING WILL HAVE A NEW ASPHALT PARKING LOT IMMEDIATELY SOUTH OF THE BUILDING.

THE PROPOSED DEVELOPMENT OF THE SITE WILL CONSIST OF 10831 SQUARE FOOT BUILDING, ASSOCIATED CONCRETE FLATWORK, SIDEWALKS, ASPHALT PARKING LOT, AND LANDSCAPING. THE GRADING IMPROVEMENTS WILL CONTINUE TO ALLOW STORM WATER TO FLOW FROM THE NORTHWEST TO THE SOUTHEAST. NEW CURB AND GUTTER, A CURB CUT, AND NEW RIP RAP RUNDOWN WILL CONVEY THE STORMWATER INTO A PROPOSED WATER HARVESTING AREA LOCATED AT THE SOUTHEAST CORNER OF THE PROPERTY. THIS WATER HARVESTING AREAS WILL BE USED TO MANAGE THE 90TH PERCENTILE STORM EVENTS (REQUIRED VOLUME = (0.33 IN. \* 33,106 S.F.)/12 = 937 C.F.) THE PROPOSED WATER HARVEST AREA VOLUME IS GREATER THAN 937 CF, AS REQUIRED BY THE RECENT CITY OF ALBUQUERQUE DRAINAGE ORDINANCE CHANGES. ALL ROOF DRAINAGE AND PROPOSED ASPHALT PARKING AREAS WILL DISCHARGE INTO THE PROPOSED WATER HARVEST AREA LOCATED AT THE SOUTHEAST CORNER OF THE PROPERTY.

THE SUBJECT PROPERTY IS NOT LOCATED WITHIN A F.E.M.A. DESIGNATED FLOOD ZONE AS ACCORDING TO F.E.M.A. MAP 35001C0329H.

### KEYED NOTES:

- NEW CONCRETE SIDEWALK OR CONCRETE FLATWORK AS PER C.O.A. STANDARD DWG 2430. CONTRACTOR SHALL SUBMIT A JOINT PATTERN TO THE PROJECT ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- $\left\langle 2\right\rangle$  NEW TYPE A HANDICAP RAMP, SEE DETAIL SHEET C-501.
- NEW WATER HARVEST AREA. TOP=91.50 (INV IN), INV=91.00 (INV OUT). REQ'D. VOL.=0.049 AF. PROVIDED VOL. @ 91.00 (SPILLWAY ELEV.)=0.055 AF. MAX WSEL=91.00. SIDE SLOPE 2:1 WITH FILTER FABRIC. SEE DETAIL ON SHEET C-501.
- NEW DOUBLE 24" WIDE SIDEWALK CULVERT AND EMERGENCY SPILLWAY WITH STEEL PLATE TOP. (FIELD VERIFY ELEVATIONS PRIOR TO CONSTRUCTION) INV. SLOPE AT 2% MIN. AS PER C.O.A. STANDARD DETAIL 2236.
- $\langle 5 \rangle$  NOTE NOT USED.
- 6 NEW CONCRETE RUNDOWN. INV.=91.5
- $\overline{7}$  NEW CURB AND GUTTER. SEE DETAIL SHEET C-501.
- $\langle 8 \rangle$  NEW BUILDING. SEE ARCHITECTURAL PLANS FOR DETAILS.
- 9 EXISTING BUILDING, ASPHALT, CONCRETE, FENCING AND WALL TO BE DEMOLISHED. SEE ARCHITECTURAL PLANS.
- (10) LANDSCAPE AREA. SEE ARCHITECTURAL PLANS FOR DETAILS.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND EXISTING FLOWLINE ELEVATIONS PRIOR TO CONSTRUCTION.
- (12) NOTE NOT USED
- NEW LIGHT DUTY HOT MIX ASPHALT (HMA) PAVING. SEE DETAIL SHEET C-501 FOR PAVING SECTIONS.
- $\langle 14 \rangle$  NEW CONCRETE TURNDOWN EDGE. SEE DETAIL SHEET C-501.
- $\langle 15 \rangle$  NEW TRASH ENCLOSURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- $\langle 16 \rangle$  NEW RETAINING WALL. SEE DETAIL SHEET C-502.
- $\langle 17 \rangle$  NEW CONCRETE CHANNEL. SEE DETAIL SHEET C-501.
- $\langle 18 \rangle$  EXISTING CLEANOUTS. ADJUST EXISTING CLEANOUT TO NEW GRADE ELEVATION.
- $\langle 19 \rangle$  NOTE NOT USED.

SCALE: 1"=20'

CONTOUR INTERVAL=1'

- NEW TYPE 3A DRIVE PAD. SEE DETAIL SHEET C-502. CONTRACTOR SHALL FIELD VERIFY THE LOCATION AND EXISTING FLOWLINE ELEVATIONS AT DRIVE PAD PRIOR TO
- ALL ROOF DRAINS SHALL CONVEY STORMWATER TOWARDS THE FRONT OF THE BUILDING AND DISCHARGE FREELY ONTO THE SIDEWALK UTILIZING SCUPPERS. SEE ARCHITECTURAL



CONSULTANT:

MILLER ENGINEERING CONSULTANT

(505)888-7500 (505)888-3800 (FAX)

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3500 COMANCHE, NE BUILDING F ALBUQUERQUE, NM 8710

ARCHITECT:



Architect:

Clint Wilsey / 66Architect, LLC clint.wilsey@gmail.com 505 280-0043

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$\sqrt{1}$	7 <del></del> 20-17.	REVISED PER COA COMMENTS.
ISS	UE:	PERMIT SET

## COORS AND CENTRAL

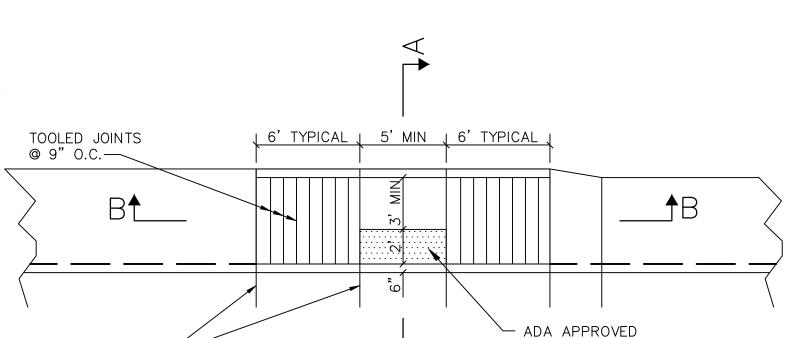
100 COORS BLVD. NW Albuquerque, NM

SHEET TITLE:

**GRADING AND** DRAINAGE PLAN

9/20/17

C-101

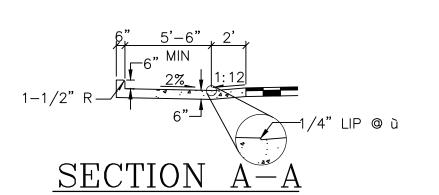


TYPE A 

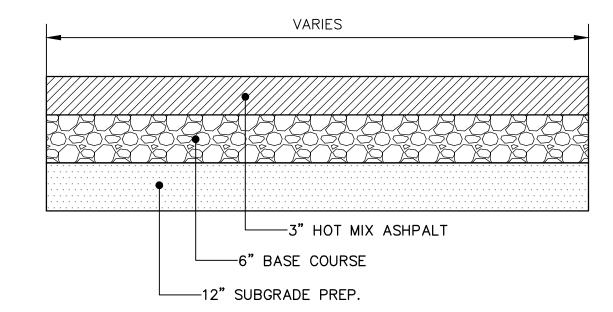
ANDICAP RAMP DETAIL

### GENERAL NOTES

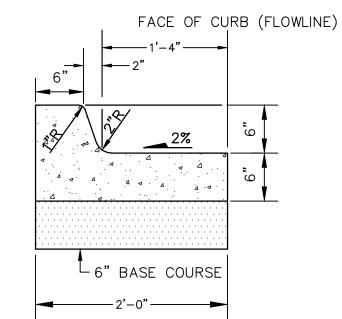
- 1. AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL EQUIPMENT, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.
- 2. RAMP SLOPES SHALL NOT BE STEEPER THAN 2%. THE TRANSITIONS SHALL HAVE A MAXIMUM SLOPE OF 1:12.
- 3. DETECTABLE WARNINGS SHALL BE ARMOR-TILE TACTILE SYSTEMS, CAST-IN-PLACE SYSTEMS, BRICK RED OR APPROVED EQUAL. INSTALLATION SHALL BE DONE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.



6' TYP.		6' TYP.
, 15' MAX	, 5' MIN	, 15' MAX ,
TRANSITION	LANDING	TRANSITION
1:12 MAX		1:12 MAX
44.4		4 . 4
SEC	ΓΙΟΝ	B-B



LIGI T DUTY I OT MII ASPI ALT PAVING SECTION SCALE: NOT TO SCALE



TERMINATE ALL CONCRETE WORK WITH -8" MIN. TURN DOWN EDGE WITH 2 - #4CONTINUOUS REBAR REINFORCEMENT SEE ARCHITECTURAL FOR DIMENSIONS 

4'-9" - #4 REBAR, 12" O.C.E.W.

CONSULTANT:

ARCHITECT:

Architect:

ISSUE:

DATE:

SHEET TITLE:

505 280-0043

DRAWN BY: **CJW** 

Clint Wilsey / 66Architect, LLC

PERMIT SET

9/20/17

COORS AND CENTRAL

100 COORS BLVD. NW

Albuquerque, NM

clint.wilsey@gmail.com

MILLER ENGINEERING CONSULTAN

Engineers • Planner

3500 COMANCHE, NE BUILDING F ALBUQUERQUE, NM 87107 (505)888-7500 (505)888-3800 (FAX) WWW.MECNM.COM

CONCRETE CI ANNEL DETAIL

SCALE: NOT TO SCALE

SIDEWAL CULVERT DETAIL

SCALE: NOT TO SCALE

TYPICAL CURB AND GUTTER SCALE: NOT TO SCALE

CONCRETE TURN DOWN EDGE SCALE: NOT TO SCALE



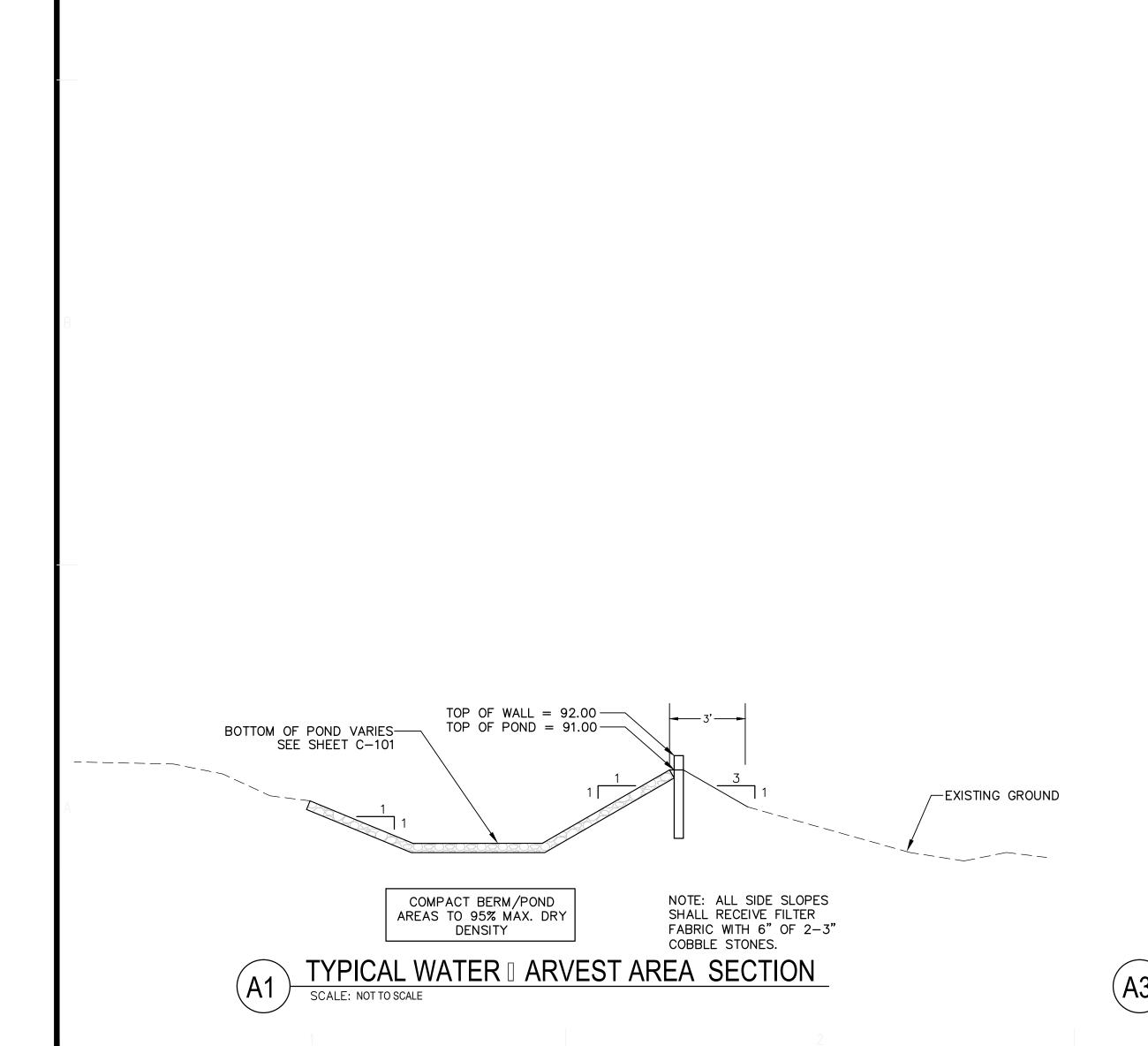
DWG. 2236

AUG. 1986

C-501

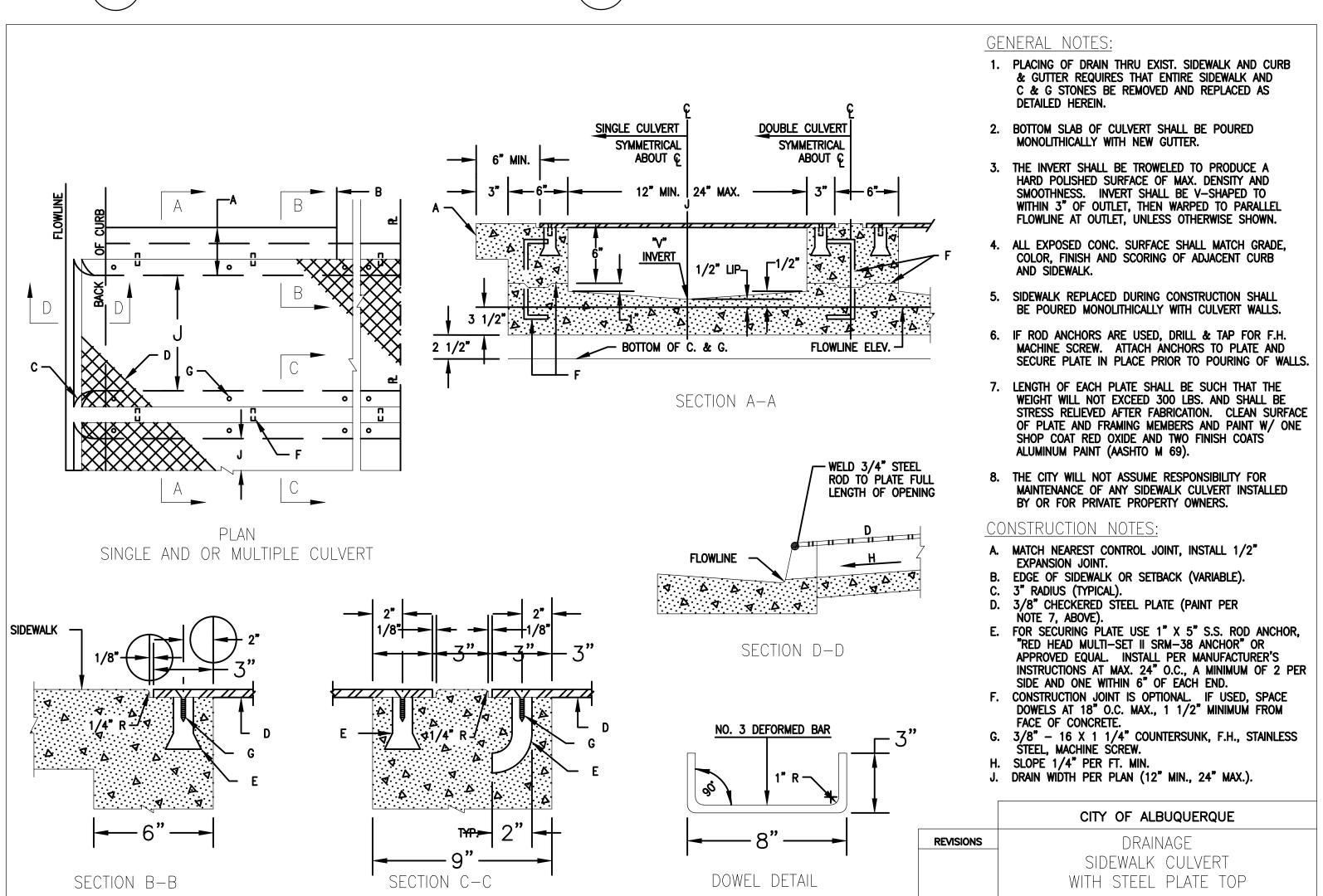
**MISCELLANEOUS** 

**DETAILS** 



DETECTABLE WARNING FIELD WITH TRUNCATED

DOMES



MASONRY SITE RETAINING WALL NOTES

WALL DURING CONSTRUCTION.

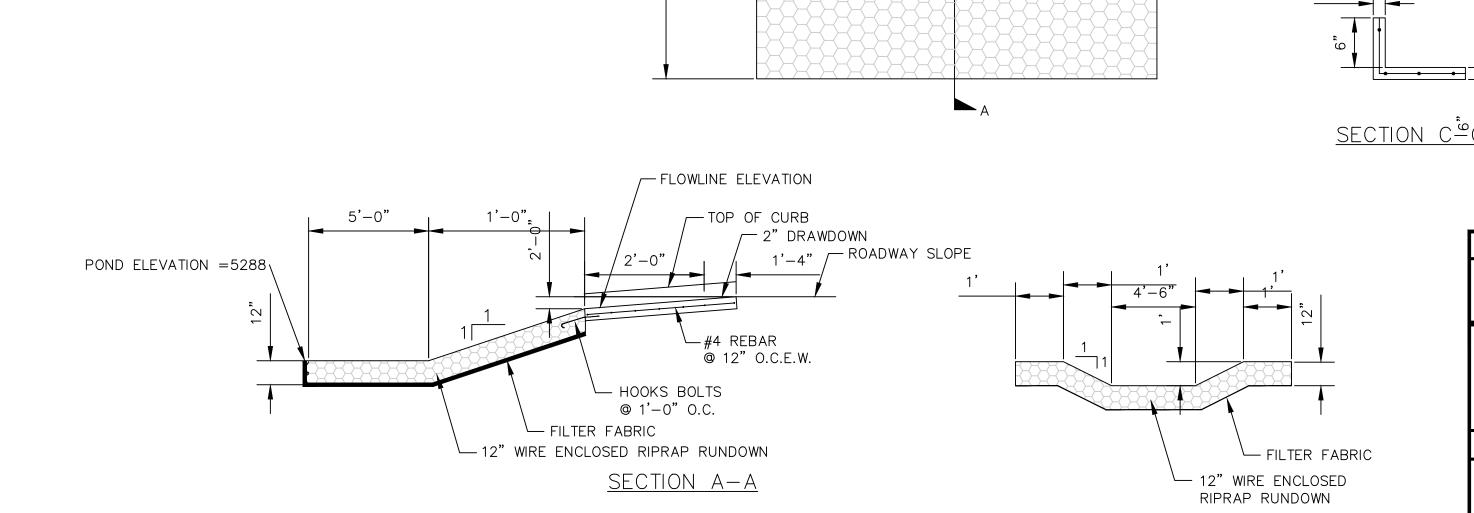
- 1. ALL MASONRY CELLS SHALL BE SOLID GROUTED W/ 2000psi GROUT FROM TOP TO BOTTOM OF WALL CLEANOUTS SHALL BE PROVIDED AT THE BOTTOM OF WALL WHERE GROUT PLACEMENT EXCEEDS 4'-0" IN HEIGHT.
- 2. LONGITUDINAL FOOTING REINFORCEMENT SHALL BE EQUALLY SPACED IN FOOTING WIDTH
- 3. WALL EXPANSION JOINTS SHALL BE INSTALLED AT A MAX. OF 20'-0" O.C.
- 4. ALL MASONRY SHALL BE TYPE 1 UNITS WITH TYPE M MORTAR. f'm=1900psi FULLY GROUTED ON THE NET AREA AND
- f'm=1900psi FULLY GROUTED ON GROSS AREA.

  5. LAP ALL REINF. 40 BAR DIAMETERS OR 24" MINIMUM UNLESS OTHERWISE NOTED.
- 6. CONTRACTOR RESPONSIBLE FOR LATERAL BRACING OF CMU
- 7. CONCRETE COMPRESSIVE STRENGTH SHALL BE f'c=2500 psi @ 28 DAYS.
- REINFORCING STEEL SHALL BE GRADE 60ksi.
   MINIMUM COMPACTION UNDER FOOTINGS SHALL BE AT 95% OF OPTIMUM PER ASTM D 1557 FOR A DEPTH OF 12" BELOW FOOTINGS.
- 10. MOISTURE CONTENT SHALL BE +/- 2% OF OPTIMUM.
  11. BACKFILL ADJACENT TO WALLS SHALL BE COMPACTED WITH RELATIVELY LIGHT, HAND OPERATED EQUIPMENT TO PREVENT OVER STRESSING THE WALL AND EXCESSIVE LATERAL DEFLECTIONS.

МА	NO2,	IRY	SITE	ERE	TAIN	IING	WAL	L S	CHED	ULE	
WALL TYPE	"H"	"W"	"A"	"B"	"C"	"D"	"E"	"a"	"b"	"c"	"d"
(1)	3'-0"	2'-0"	1'-0"	0'-8"	0'-8"	0'-8"	2'-6"	#4@24"	#4@48"	#4@16"	(3)#
2	4'-0"	2'-7"	1'-0"	0'-11"	0'-8"	0'-11"	2'-6"	#4@24"	#4@48"	#4@16"	(3)#
3	5'-0"	3'-2"	1'-0"	1'-3"	0'-8"	1'-3"	2'-6"	#5 <b>@</b> 8"	#4@48"	#4@16"	(4)#

(C1) MASONRY SITE RETAINING WALL DETAIL

SCALE: NOT TO SCALE



CONSTRUCTION JOINT (TYP)-

FLOWLINE-

STANDARD CURB AND GUTTER  $-\!\!\!\!/$ 

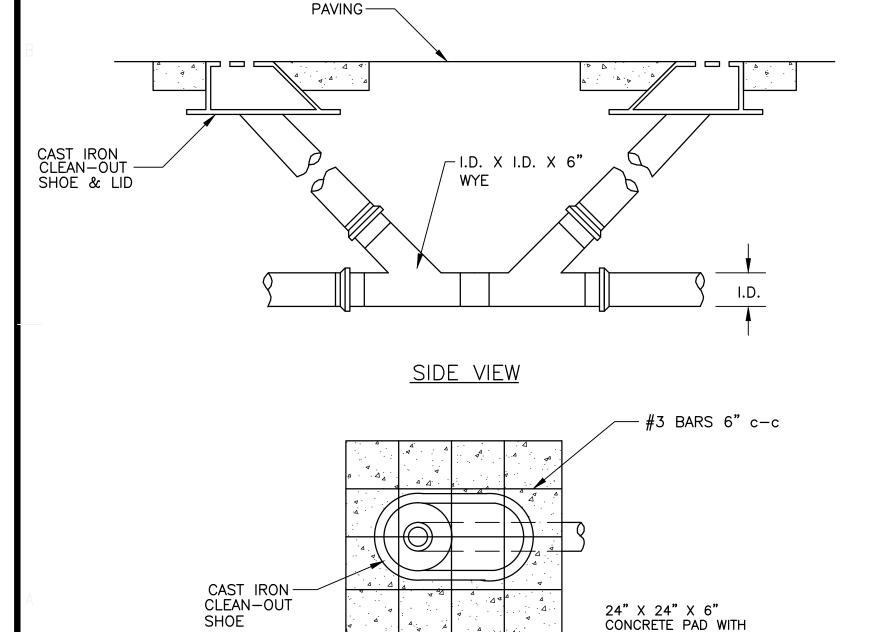
FLOW\_

R=2'-0"-

C4 CONCRETE RUNDOWN DETAIL

SCALE: NOT TO SCALE

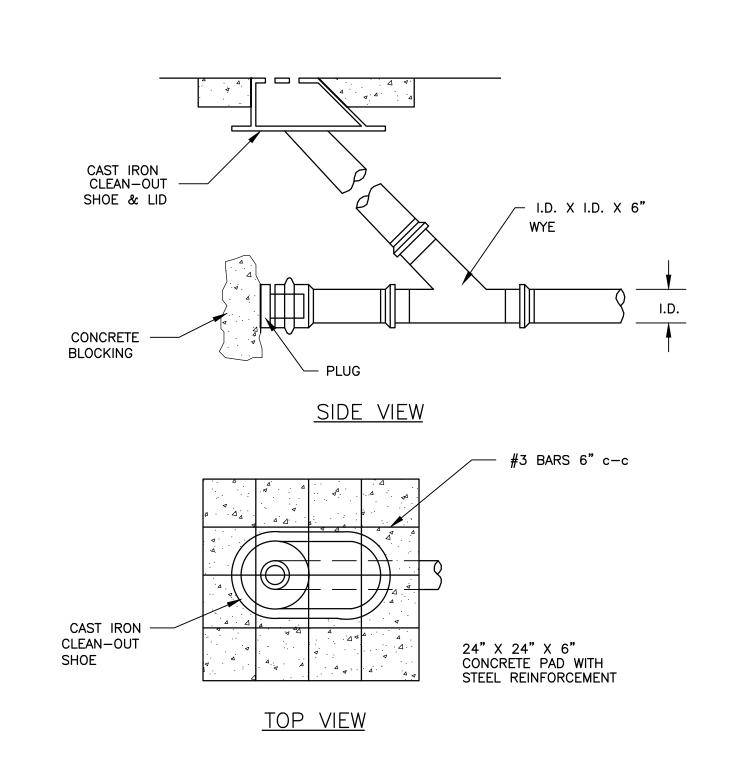
FACE OF CURB-



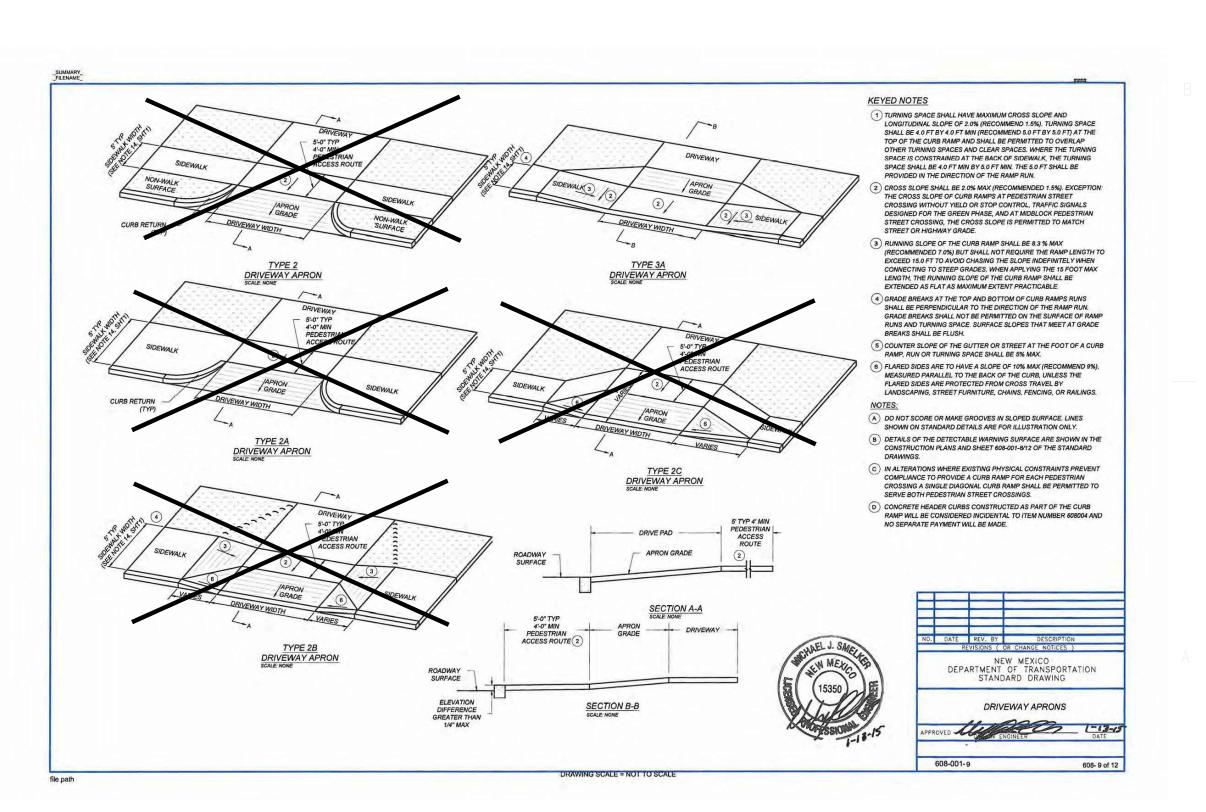


TOP VIEW

STEEL REINFORCEMENT











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ARCHITECT:

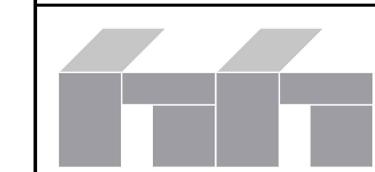
SECTION B-B

—BACK OF CURB

SECTION D-D

- STANDARD CURB AND GUTTER

—FLOWLINE



Architect:

Clint Wilsey / 66Architect, LLC clint.wilsey@gmail.com 505 280-0043

DRA	WN BY:	CJW
I	•	-
ISS	UE:	PERMIT SET

# **COORS AND CENTRAL**

100 COORS BLVD. NW Albuquerque, NM

DATE: 9/20/17
SHEET TITLE:

MISCELLANEOUS

**DETAILS** 

C-502