

NOTICE TO CONTRACTORS (SO 19)

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE 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 CITY OF ALBIJQUERQUE STANDARD SPECS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #7

3. TWO WORKING DAYS PRIOR TC) ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF

EXISTING UTILITIES. 4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND

VERIFY THE HORIZONTAL AND VERTICAL 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 THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR

APPROVAL	NAME	DATE
INSPECTOR		

○ GRADING KEYNOTES

- 1. CONSTRUCT 2 18" WIDE SIDEWALK CULVERTS PER COA STD
- 2. CONSTRUCT CONCRETE RIBBON CHANNEL, SEE DETAIL "E" SHEET C101.
- 3. CONSTRUCT RETAINING WALL, SEE STRUCTURAL PLANS FOR
- 4. SUMP PUMP, SEE MECHANICAL DRAWINGS.
- 5. DEPRESSED LANDSCAPE/WATER HARVESTING AREA.
- 6. CONSTRUCT 24" SIDEWALK CULVERT PER COA STD DWG 2236.
- 7. CONSTRUCT RIP-RAP SWALE, SEE SECTION "D" SHEET C101.
- 8. CONSTRUCT CHECK DAM, SEE DETAIL "G" SHEET C101.
- 9. CONSTRUCT TRENCH DRAIN WITH ADA COMPLIANT GRATE.
- 11. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER TO ADJUST/RELOCATE COMMUNICATION PEDESTAL AND
- UNDERGROUND UTILITY IF REQUIRED.
- 13. CONSTRUCT CURB OPENING, SEE DETAIL F SHEET C101. 14. 2" TO 6" CRUSHED STONE SLOPE PROTECTION, 12" THICK—PLACED OVER NON-WOVEN FILTER FABRIC.
- 15. INSTALL EXTRUDED ASPHALT CURB PER COA STD DWG 2415B.
- *** FOR TYPICAL CROSS-SECTIONS SEE SHEET C101

LEGEND

PROPERTY LINE EXISTING CONTOURS

> PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE TW=TOP OF WALL, BW=BOTTOM OF WALL EX=EXISTING, TG=TOP OF GRADE

PROPOSED DIRECTION OF FLOW S=2.0%

^ WATER BLOCK

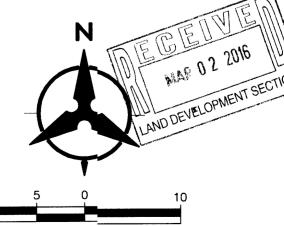
PROPOSED RETAINING WALL PROPOSED INDEX CONTOURS PROPOSED INTER CONTOURS

PROPOSED CURB & GUTTER

---- PRGPOSED STORM DRAIN LINE

STONE CHECK DAM

CRUSHED STONE SLOPE PROTECTION



Bohannan A Huston www.bhinc.com

Mullen Heller Architecture P.C.

924 Park Avenue SW

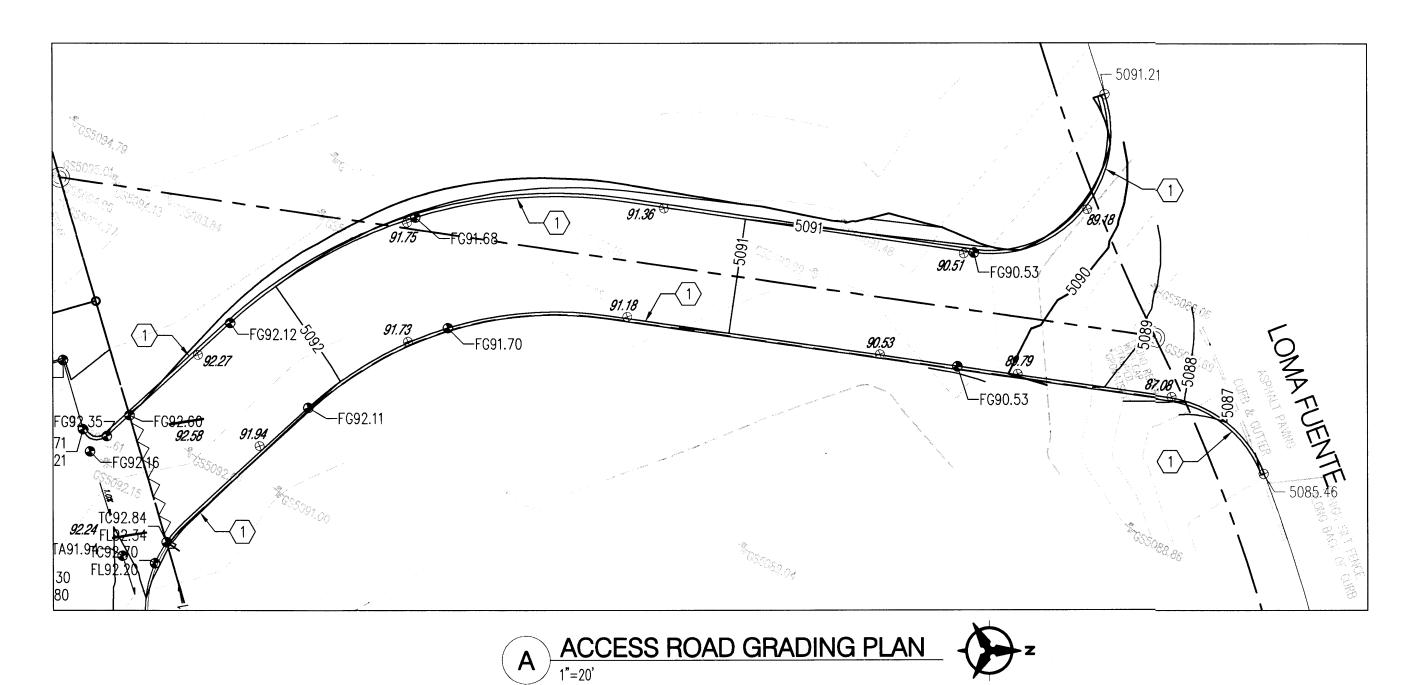
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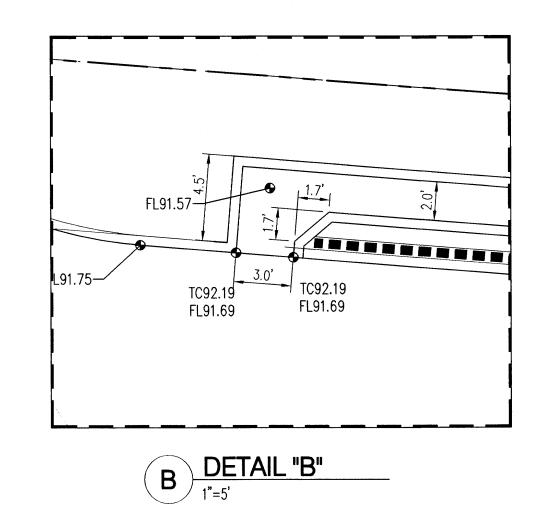


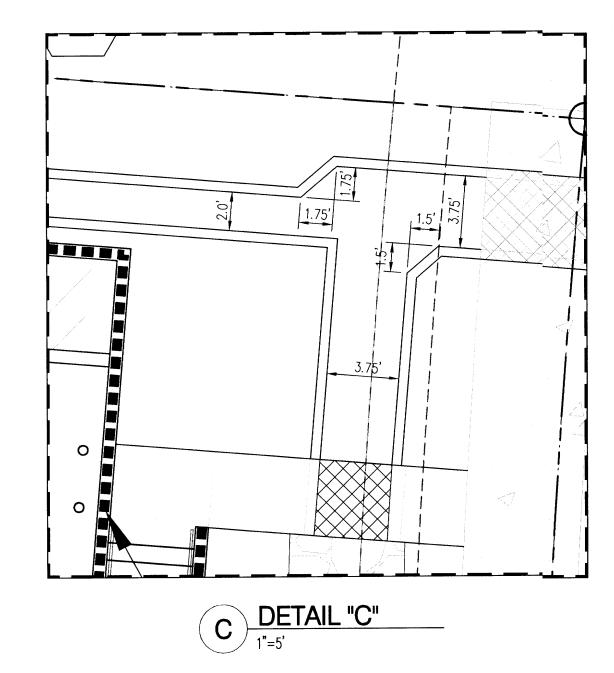
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○ GRADING KEYNOTES

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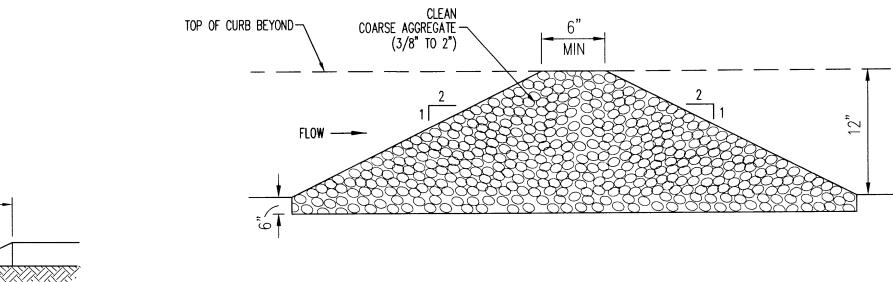


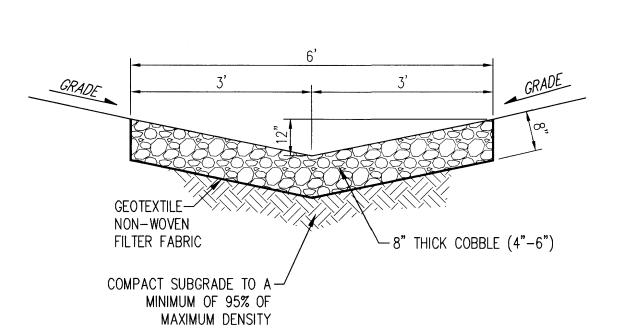




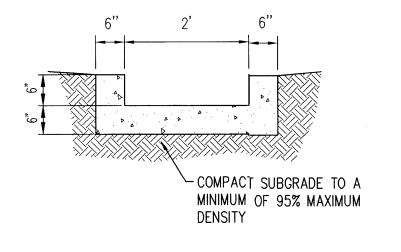
NOTES:

- 1. SEE PLANS FOR LOCATION OF DAMS.
- 2. CHECK DAMS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN THE DEPOSITS REACH APPROXIMATELY ONE—HALF THE HEIGHT OF THE CHECK DAM.

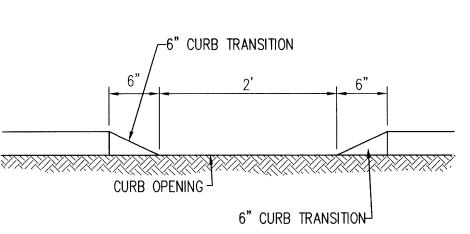








E CONCRETE RIBBON CHANNEL



F TYPICAL CURB OPENING



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3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION". ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.

7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

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9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.

10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

DRAINAGE CERTIFICATION

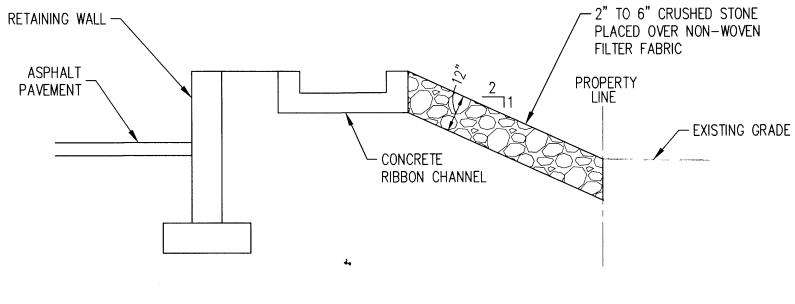
I, GLENN S. BROUGHTON, NMPE 14171, OF THE FIRM BOHANNAN HUSTON INC., HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 6/25/2015. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY TIM MARTINEZ, NMPS 13982, OF THE FIRM TM SURVEYING, INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED, THE PROJECT SITE ON 3/01/2016 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR A TEMPORARY CERTIFICATE OF OCCUPANCY.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT F()R ANY OTHER

PURPOSE.

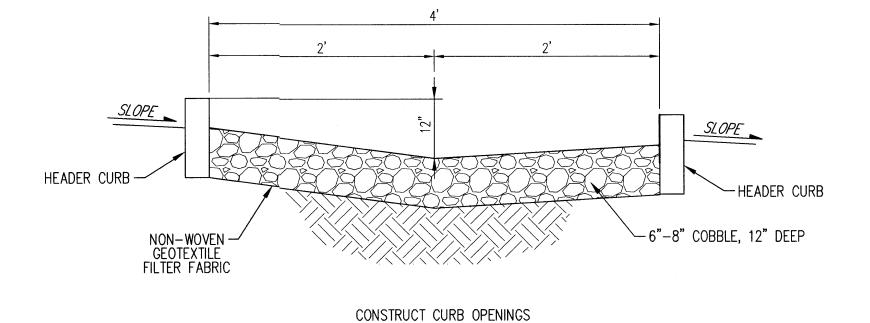
3/02/2016

LEGEND DESIGN GRADE



H TYPICAL RETAINING WALL SECTION

N.T.S



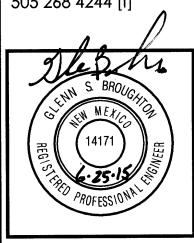
TYPICAL WATER HARVESTING SECTION

AS SHOWN ON SHEET C100

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Mullen Heller Architecture P.C.

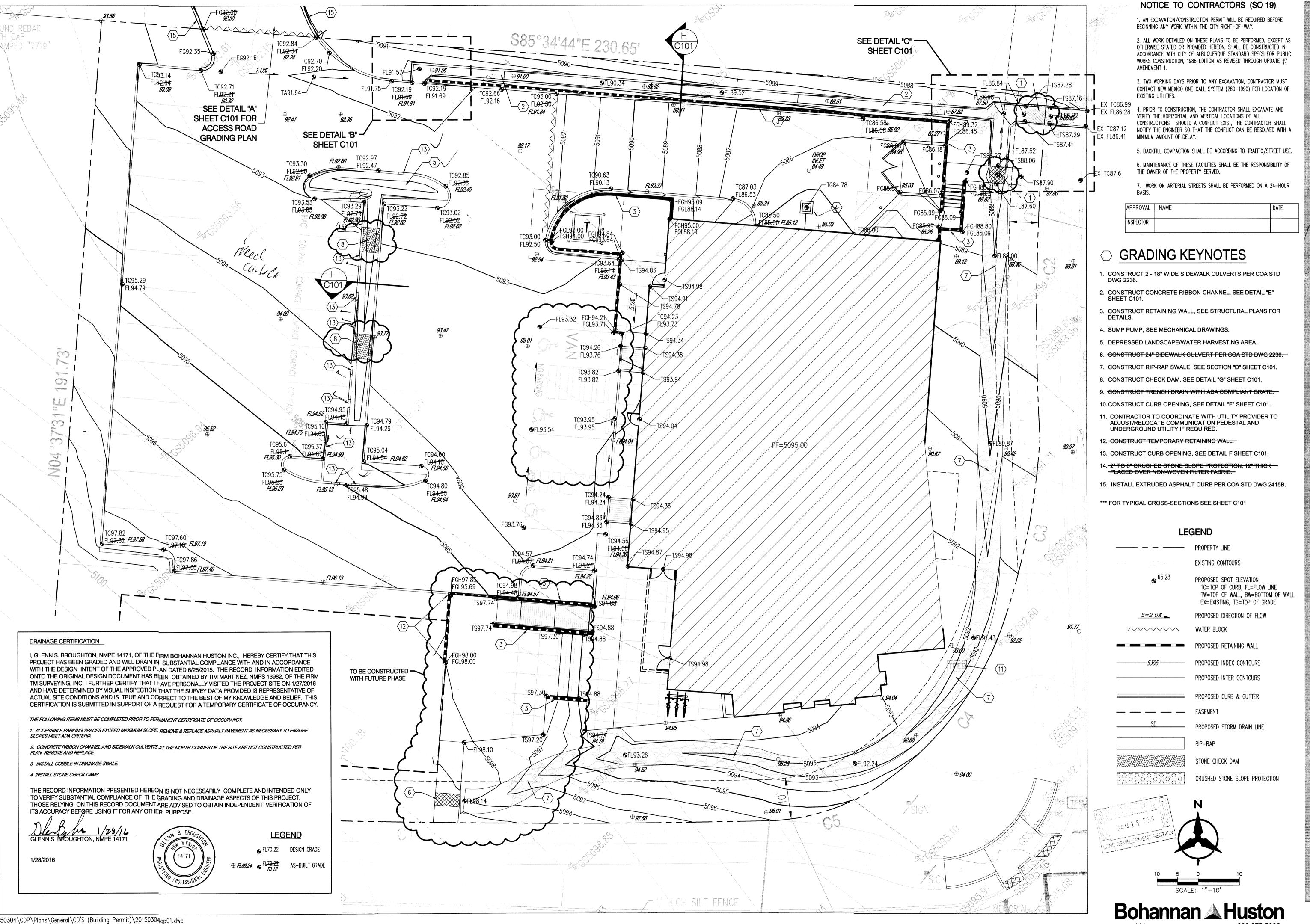
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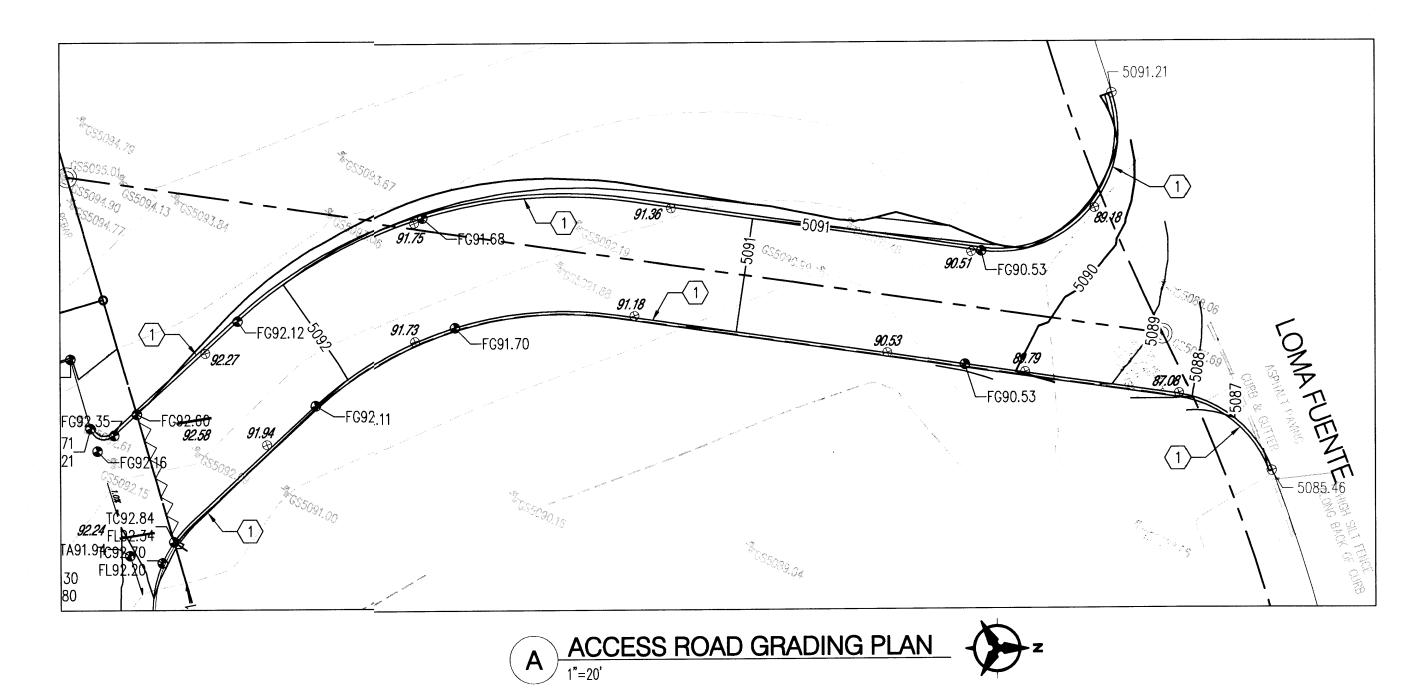
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K Z

1. INSTALL EXTRUDED ASPHALT CURB PER COA STD DWG 2415B.

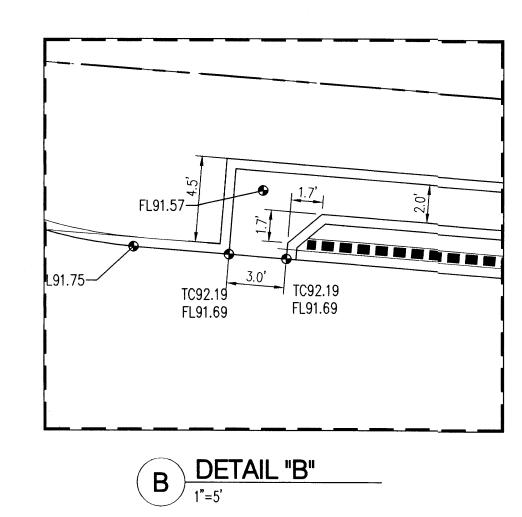


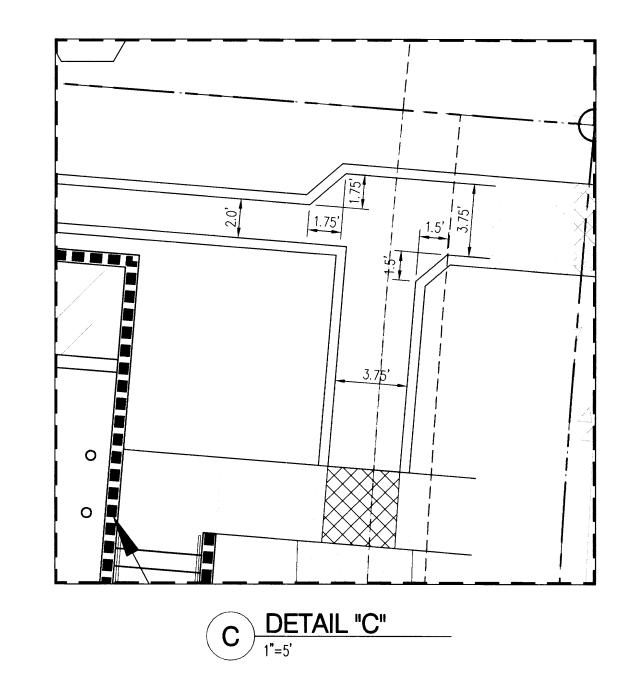
2" TO 6" CRUSHED STONE

PLACED OVER NON-WOVEN

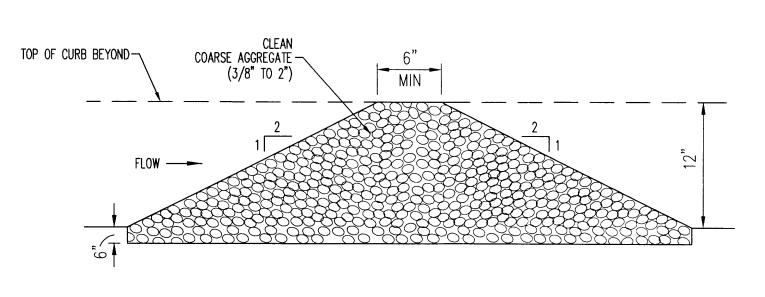
-EXISTING GRADE

FILTER FABRIC





NOTES:
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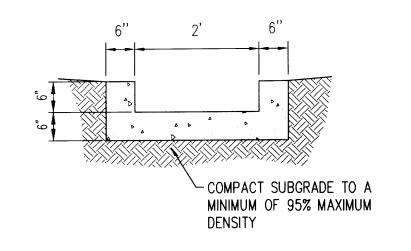
N.T.S

GEOTEXTILE
NON-WOVEN
FILTER FABRIC

COMPACT SUBGRADE TO A
MINIMUM OF 95% OF
MAXIMUM DENSITY

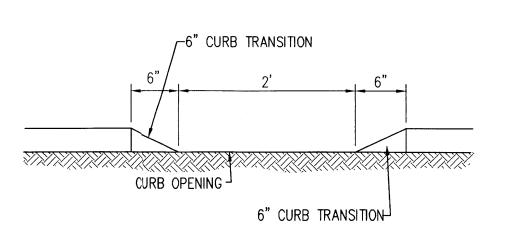
D LARGE RIP-RAP SWALE

H TYPICAL RETAINING WALL SECTION
N.T.S



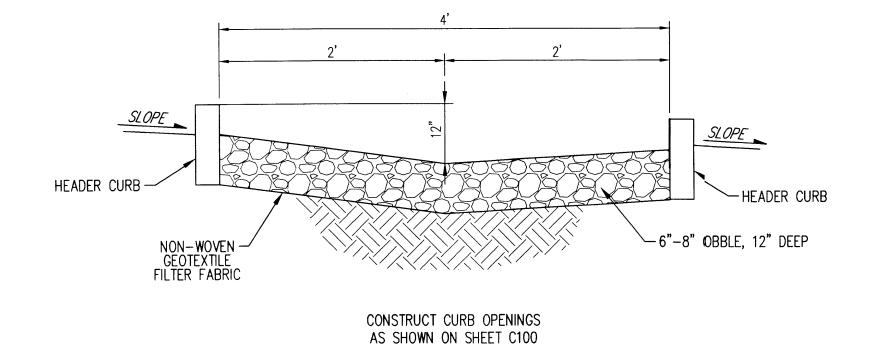
E CONCRETE RIBBON CHANNEL

N.T.S.



F TYPICAL CURB OPENING

N.T.S



TYPICAL WATER HARVESTING SECTION
N.T.S

GRADING SHEET NOTES

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THE FOLLOWING ITEMS MUST BE COMPLETED PRIOR TO PERMANENT CERTIFICATE OF

1. ACCESSIBLE PARKING SPACES EXCEED MAXIMUM SLOPE. REMOVE & REPLACE ASPHALT PAVEMENT AS NECESSARY TO ENSURE SLOPES MEET ADA CRITERIA.

2. CONCRETE RIBBON CHANNEL AND SIDEWALK CULVERTS AT THE NORTH CORNER OF THE SITE ARE NOT CONSTRUCTED PER PLAN. REMOVE AND REPLACE.

3. INSTALL COBBLE IN DRAINAGE SWALE.

4. INSTALL STONE CHECK DAMS.

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PURPOSE.

9 Les July 1/28/12

GLENN S. BROUGHTON, NMPE 14171

1/28/2016

<u>LEGEND</u>

FL70.22 DESIGN GRADE

FL69.24 \odot FL70.22 AS-BUILT GRA

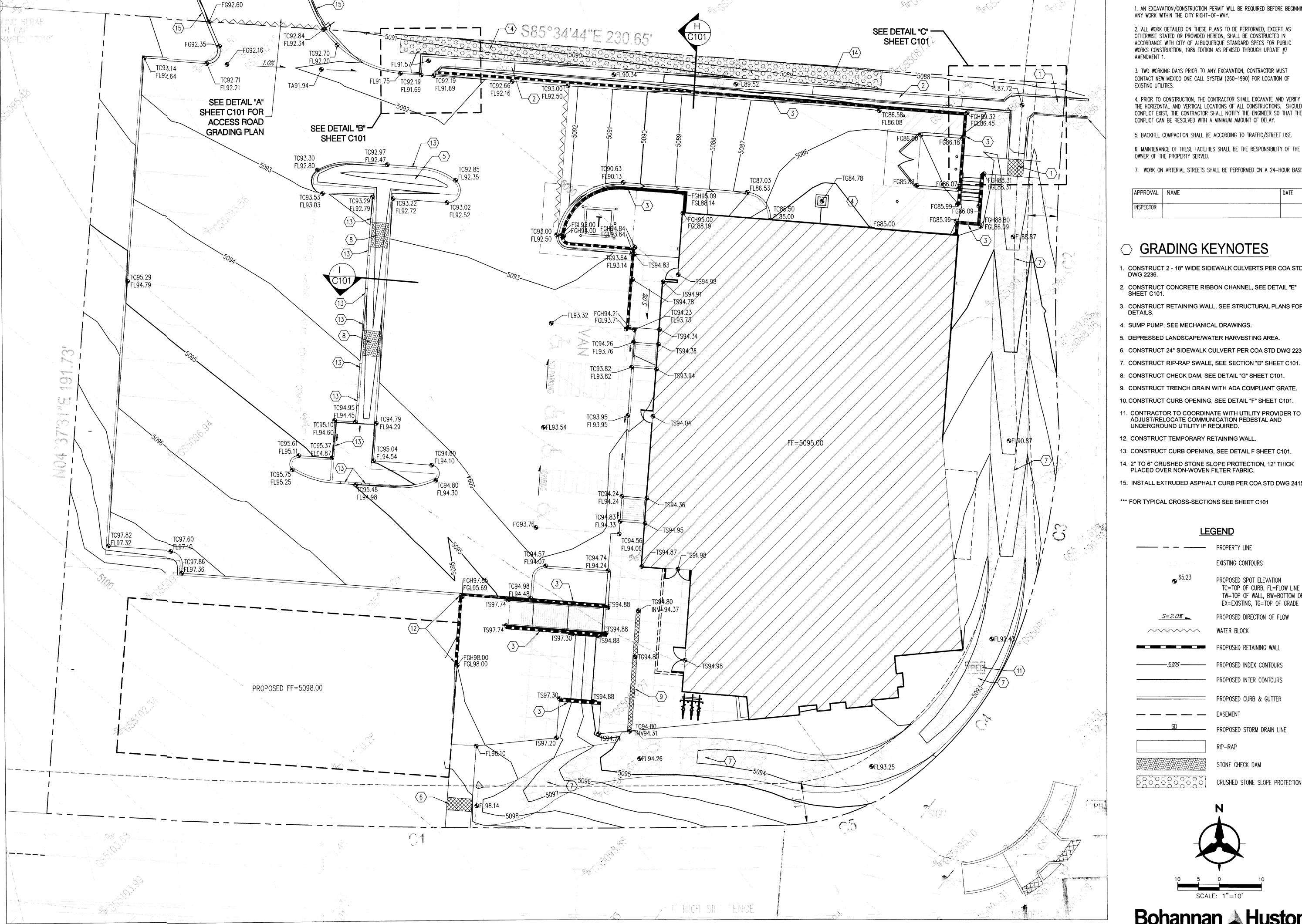




Smiles for Kids Dental Office
9201 Eagle Ranch Road, NW.
Albuquerque, New Mexico 87114
sheet title

RETAINING WALL -

ASPHALT PAVEMENT



NOTICE TO CONTRACTORS (SO 19)

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APPROVAL	NAME	DATE
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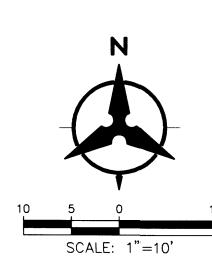
○ GRADING KEYNOTES

- 1. CONSTRUCT 2 18" WIDE SIDEWALK CULVERTS PER COA STD
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- 3. CONSTRUCT RETAINING WALL, SEE STRUCTURAL PLANS FOR
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- 6. CONSTRUCT 24" SIDEWALK CULVERT PER COA STD DWG 2236.
- 8. CONSTRUCT CHECK DAM, SEE DETAIL "G" SHEET C101.
- 9. CONSTRUCT TRENCH DRAIN WITH ADA COMPLIANT GRATE.
- 10. CONSTRUCT CURB OPENING, SEE DETAIL "F" SHEET C101.
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LEGEND PROPERTY LINE EXISTING CONTOURS PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE TW=TOP OF WALL, BW=BOTTOM OF WALL EX=EXISTING, TG=TOP OF GRADE S=2.0% _ PROPOSED DIRECTION OF FLOW WATER BLOCK PROPOSED RETAINING WALL

-5305 — PROPOSED INDEX CONTOURS ---- PROPOSED INTER CONTOURS PROPOSED CURB & GUTTER --- EASEMENT

PROPOSED STORM DRAIN LINE RIP-RAP STONE CHECK DAM CRUSHED STONE SLOPE PROTECTION





Mullen Heller Architecture P.C.

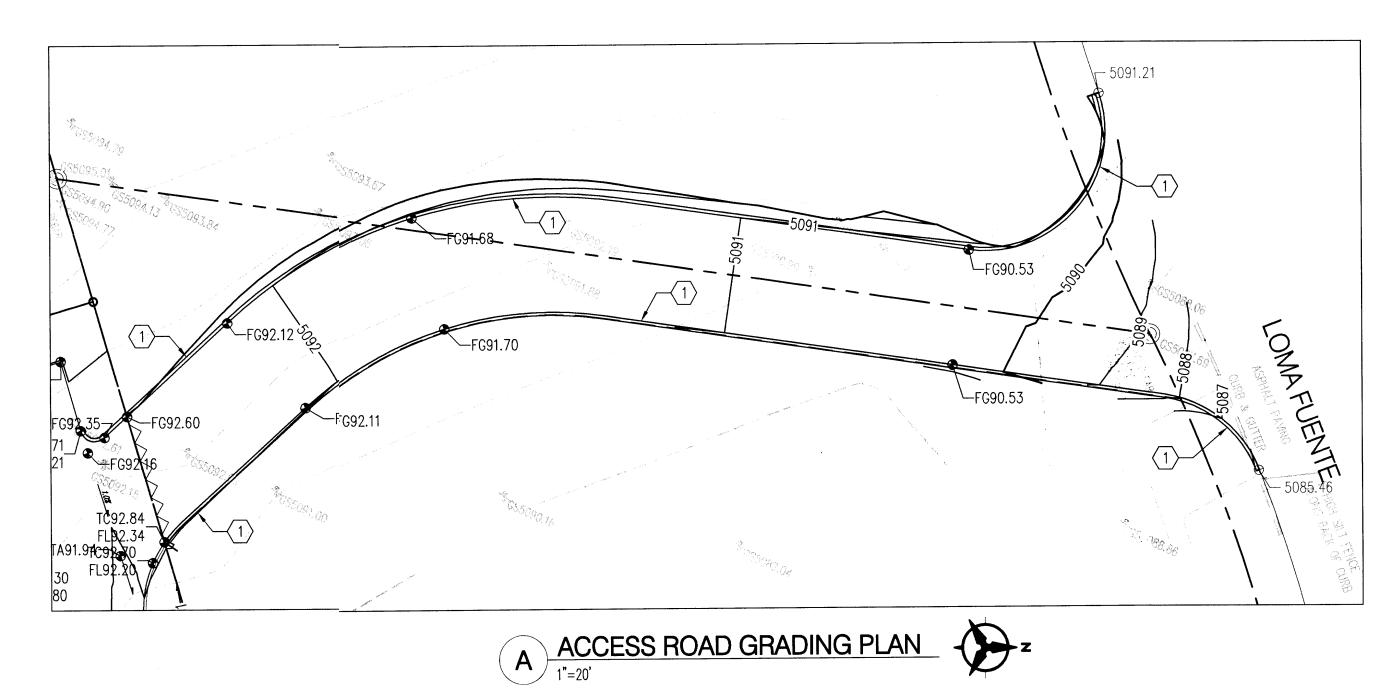
924 Park Avenue SW Suite B Albuquerque 87102 505 268 4144[p] 505 268 4244 [f]

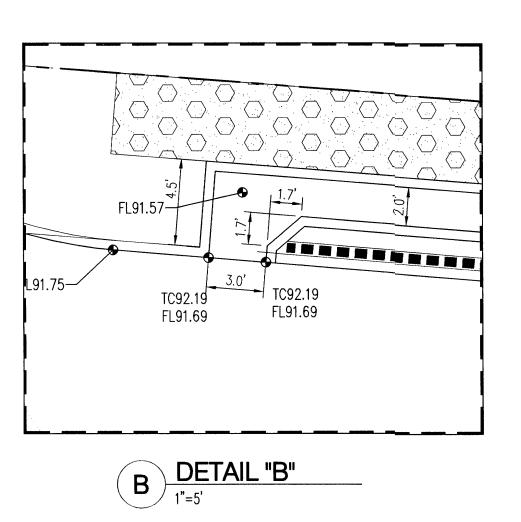


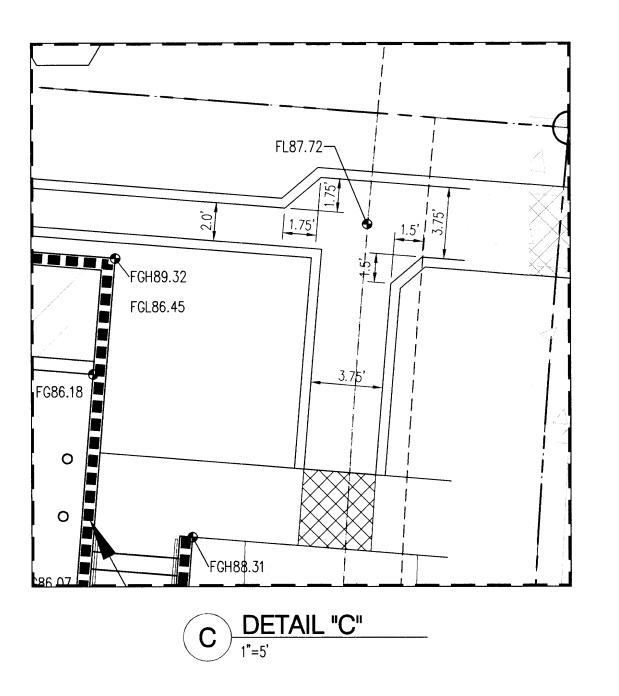
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○ GRADING KEYNOTES

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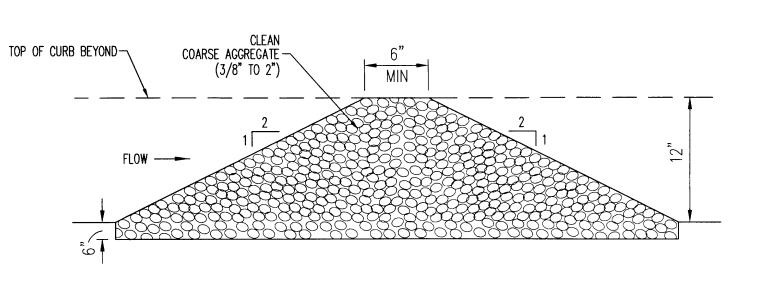




NOTES:

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G CHECK DAM

GEOTEXTILE—
NON-WOVEN
FILTER FABRIC

COMPACT SUBGRADE TO A

MINIMUM OF 95% OF MAXIMUM

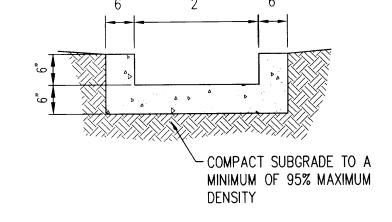
DENSITY

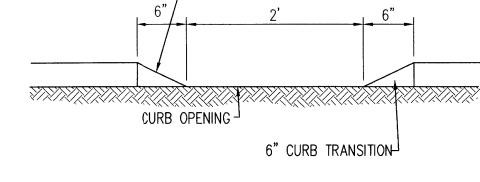
GRADE

12" THICK - TYPE "VL"

ANGULAR RIP RAP PER COA

STD SPEC SECTION 109



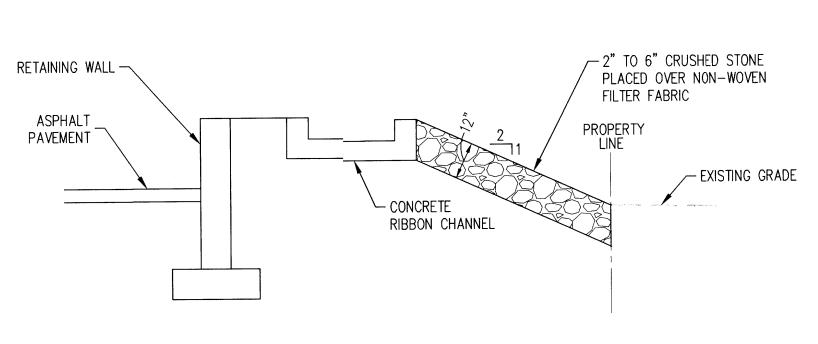


-6" CURB TRANSITION

E CONCRETE RIBBON CHANNEL

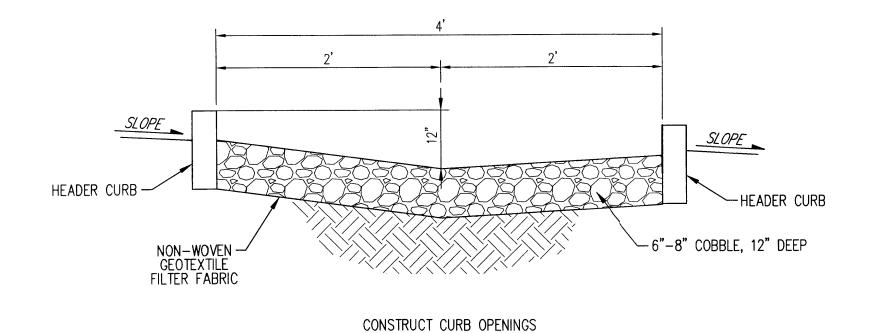
N.T.S.





H TYPICAL RETAINING WALL SECTION

N.T.S



TYPICAL WATER HARVESTING SECTION

N.T.S

AS SHOWN ON SHEET C100

GRADING SHEET NOTES

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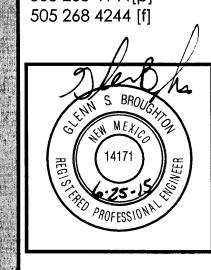
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10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

Bohannan A Huston

rev date by revision

Mullen Heller Architecture P.C. 924 Park Avenue SW Suite B Albuquerque 87102 505 268 4144[p] 505 268 4244 [f]



job number 20150304
drawn by MHS
project manager GSB
date 07.21.2015

s for Kids Dental Office le Ranch Road, NW. ue, New Mexico 87114

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INTRODUCTION:

THE PROJECT IS LOCATED ON THE NORTHWEST INTERSECTION OF PASEO DEL NORTE BLVD AND EAGLE RANCH RD. THIS SITE IS NOT WITHIN A DEFINED FLOOD ZONE AS SHOWN CIN FIRM MAP NUMBER 35001C0116G (THIS SHEET). THE PURPOSE OF THIS SUBMITTAL IS TO PROVIDE A DRAINAGE MANAGEMENT PLAN FOR THE DEVELOPMENT OF SMILES FOR KIDS DENTIST OFFICE AND REQUEST BUILDING PERMIT APPROVAL.

EXISTING CONDITIONS:

THE 0.98 ACRE SITE IS CURRENTLY UNDEVELOPED. THE SITE SLOPES TO THE NORTH / NORTHEAST WHERE THE RUNOFF OPENLY DISCHARGES INTO EAGLE RANCH RD.

BASED ON THE DRAINAGE STUDY FOR FOUNTAIN HILLS (CITY OF ALBUQUERQUE DRAINAGE FILE #C12/D3B), THE ALLOWABLE PEAK DISCHARGE FROM THE SITE IS APPROXIMATELY 4.08 CFS.

METHODOLOGY:

THE HYDROLOGIC ANALYSIS PROVIDED WITH THIS DRAINAGE MANAGEMENT PLAN HAS BEEN PREPARED IN ACCORDANCE WITH SECTION 22.2 OF THE DPM. THE SITE IS LOCATED WEST OF THE RIO GRANDE WITHIN PRECIPITATION ZONE 1. LAND TREATMENT PERCENTAGES WERE CALCULATED BASED ON THE ACTUAL CONDITIONS IN EACH ONSITE BASIN AND ARE SUMMARIZED IN THE "PROPOSED BASIN DATA TABLE" (THIS SHEET).

PROPOSED CONDITIONS:

THIS DRAINAGE MANAGEMENT PLAN WAS DEVELOPED IN ACCORDANCE WITH A FULLY DEVELOPED SITE. IT WAS DETERMINED THAT THE MAXIMUM ALLOWABLE PEAK DISC; HARGE FROM THE SITE IS APPROXIMATELY 4.08 CFS (AS MENTIONED ABOVE).

THE SITE IS DIVIDED INTO TWO SMALL DRAINAGE BASINS, THE ULTIMATE OUTFALL LOCATION FOR "BASIN 1" IS EAGLE RANCH ROAD THROUGH MEANS OF RIBBON CHANNEL AND A SMALL POND (POND 1) IN THE PARKING LOT USED TO MITIGATE THE FIRST FLUSH. THE SOUTHERN AND EASTERN PORTIONS ()F THE SITE (BASIN 2) DIRECT THE RUNOFF TO THE SAME DISCHARGE POINT AS "BASIN 1". THE RAMP INTO THE PARKING GARAGE DRAINS INTO AN INLET. RUNOFF FROM THE RAMP AND PARKING GARAGE ARE CONVEYED TO A SUMP PUMP WHICH DISCHARGES TO THE SANITARY SEWER. THE TOTAL AREA OF THE RAMP IS 0.07 ACRES.

OFFSITE PRIVATE ACCESS ROAD IS NOT INCLUDED IN THE CALCULATION. RUNOFF FROM TRACT 10-A-1 WILL BE ADDRESSED WITH THE DEVELOPMENT OF THAT TRACT.

RUNDOWN CAPACITIES:

THE CONCRETE RIBBON CHANNEL WAS DESIGNED USING MANNING'S EQUATION AND THE WEIR EQUATION.

THE SITE CONTAINS ONE LARGE RIBBON CHANNEL TO DIRECT THE FLOW TO EAGLE RANCH ROAD. THE BEGINNING OF THE RIBBON CHANNEL (DENOTED AS "R-1") WAS SIZED USING THE WEIR EQUATION TO ACCEPT RUNOFF FROM "BASIN 1". ONCE THE FLOW ENTERS THE RIBBON CHANNEL (DENOTED AS 'R-2"), THERE IS ENOUGH CAPACITY GIVEN THE RELATIVELY STEEP SLOPE TO DIRECT THE FLOW TO EAGLE RANCH ROAD. THE RIBBON CHANNEL WAS WIDENED IN THE NORTHEAST CORNER OF THE SITE (DENOTED AS "R-3") TO INCLUDE RUNOFF FROM "BASIN 2". FOR MORE DETAILS, SEE THE RUNDOWN CAPACITY TABLE (THIS SHEET).

SWALE CAPACITY:

THE RIPRAP SWALE WAS DESIGNED USING MANNING'S EQUATION.

THE LARGE SWALE RUNNING FROM THE SOUTH TO THE NORTHEAST CORNER WAS SIZED TO ACCEPT THE FLOWS FROM "BASIN 2". THE SLOPE OF THE SWALE CHANGES THROUGHOUT, TO PROPERLY DETERMINE CAPACITY, THE FLATTEST SLOPE WAS USED TO. FOR MORE DETAILS, SEE THE SWALE CAPACITY TABLE (THIS SHEET).

SIDEWALK CULVERT CAPACITIES:

THE SIDEWALK CULVERTS WERE DESIGNED USING THE WEIR EQUATION.

BOTH SIDEWALK CULVERTS ARE THE SAME WIDTH AND HEIGHT, MEANING THEY HAVE THE SAME CAPACITY. THE CULVERTS HAVE MORE THAN ENOUGH CAPACITY FOR THE DESIGN STORM EVENT. IN THE EVENT OF CLOGGING OR LARGER STORM EVENT, RUNOFF WILL FLOW OVER THE TOP OF THE SIDEWALK CULVERT IN THE DIRECTION OF ITS INTENDED FLOWPATH.

FIRST FLUSH CALCULATIONS:

IMPERVIOUS AREA: 29,952 SF (PAVED AREA 22,216 & ROOF AREA 7,736 SF) *RAINFALL DEPTH: ROOF AREA = 0.44", PAVED AREA = 0.33"

VOLUME REQUIRED: 895 CF VOLUME PROVIDED: 315 CF

*INITIAL ABSTRACTION OF 0.1" WAS USED FOR PAVED AREAS PER DPM CHAPTER 22, TABLE A-7.

THERE WERE MANY CONTRIBUTING FACTORS THAT LIMITED THE VOLUME THAT COULD BE INCORPORATED INTO THE SITE DESIGN. THE SITE HAS AN EXISTING SLOPE OF APPROXIMATELY 10.00%. STEEP SLOPE SITES MAKE IT CHALLENGING TO INCORPORATE SHALLOW RETENTION AREAS IN THE LANDSCAPE DESIGN AND REDUCE THE ACTUAL VOLUME INTERCEPTED. IN ADDITION, BUILDING AND SITE PARKING SET BACKS LIMITED THE AREA AVAILABLE TO PROVIDE RETENTION PONDS WHERE THEY WOULD BE MOST EFFECTIVE AT TREATING THE FIRST FLUSH. ANOTHER SITE CONSTRAINT IS AN EXISTING UTILITY EASEMENT (ALONG EAGLE RANCH AND PASEO DEL NORTE) CONTAINING COMMUNICATION AND GAS LINES. GIVEN THE SITE CONSTRAINTS, THIS DESIGN MAXIMIZED THE FIRST FLUSH RETAINED WITHIN THE PARKING LOT PONDING AREA.

CONCLUSION:

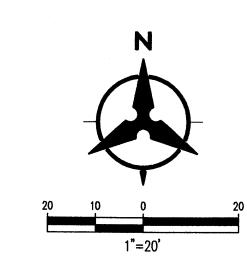
THE PEAK DISCHARGE FROM THE SITE IS 3.65 CFS WHICH IS LESS THAN THE ALLOWABLE PEAK DISCHARGE RATE, THEREFORE WE ARE IN CONFORMANCE WITH CITY OF ALBUQUERQUE HYDROLOGY REQUIREMENTS AND REQUEST BUILDING PERMIT APPROVAL.

					s for Kid						
		Prop	osed Ult	imate De	evelopme	ent Cond	itions Ba	sin Data 🖰	Table		
This ta	able is based	on the DPM	Section 22.2,	Zone:	1						
Basin	Area	Area	Lan	Land Treatment Percentages Q(100yr) Q(10	Q(100yr-6hr)	WTE	V(100yr-6hr)	V(100yr-10day			
ID	(SQ. FT)	(AC.)	A	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	CF
Prop	osed									<u> </u>	
1	26589	0.61	0.0%	0.0%	17.0%	83.0%	4.12	2.51	1.80	3996	6699
2	13140	0.30	0.0%	0.0%	40.0%	60.0%	3.77	1.14	1.58	1728	2694
TOTAL	39729	**0.91						3.65			***9393

	CONCRETE RUNDOWN TABLE										
Rundown #	Basin ID	Rundown Type	Required Flow	Weir Height ft	Weir Length ft	Weir Capacity**	Channel Width ft	Channel Height ft	Minimum Slope	Capacity* CFS	
R-1	BASIN 1	Rectangle	2.51	0.50	3.00	3.00	N/A			<u> </u>	
R-2	BASIN 1	Rectangle	2.51	N/A			2.00	0.50	2.80%	9.20	
R-3	BASINS 1 & 2	Rectangle	3.65	N/A			3.00	0.50	0.70%	7.46	
Capacity Based Weir Eq: Q=2.65	on Manning's Eq w/ N=0.	013 - *							deren er 	len o e e e e e e e e e e e e e e e e e e	

# Flow Coefficient Slope Ca							
	Contributing Basins & Flows	•	1 -		Stream Capacity*		
SW-1	BASIN 2	1.14	0.035	1.40%	22.47		

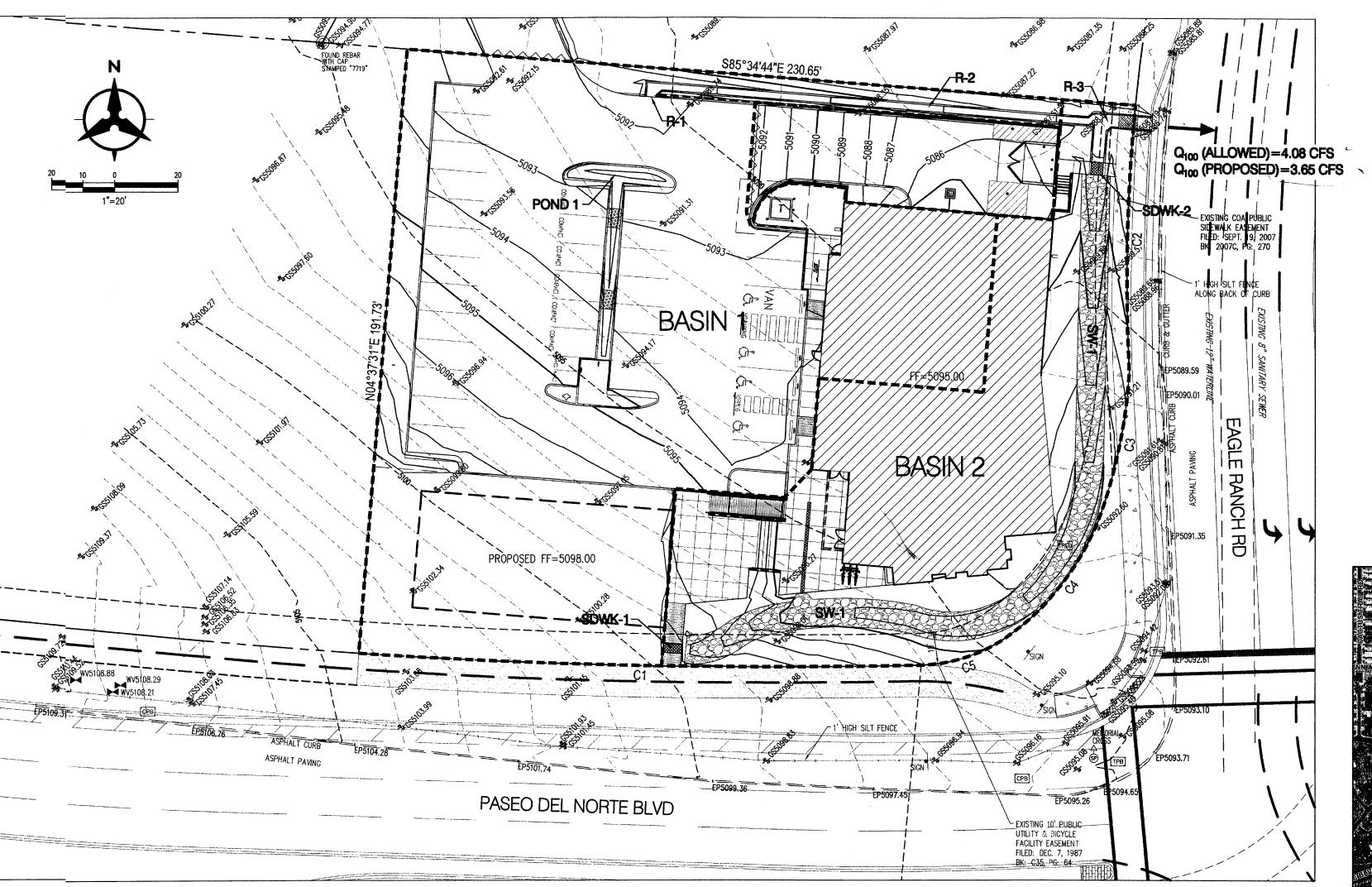
SIDEWALK CULVERT CAPACITY TABLE									
WEIR #	Contributing Basins & Flows	Required Flow	Weir Height (FT)	Weir Length (FT)	Weir Capacity*				
SDWK-1	MINIMAL ONSITE	0.50	0.50	3.00	3.00				
SDWK-2	BASIN 2	1.14	0.50	3.00	3.00				

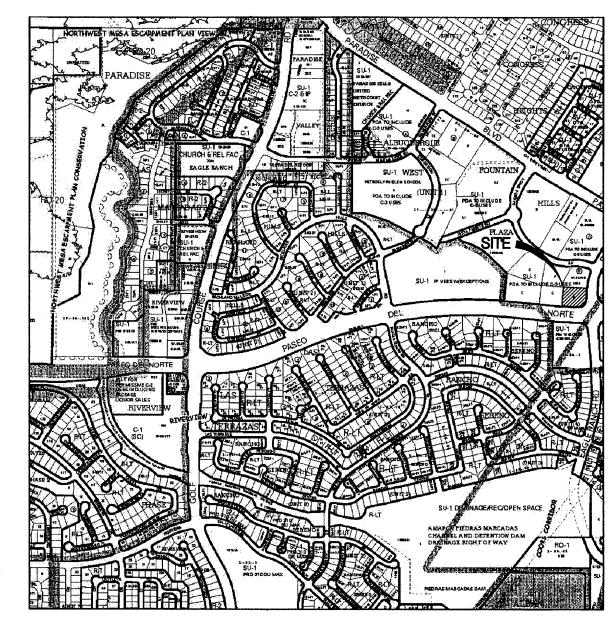




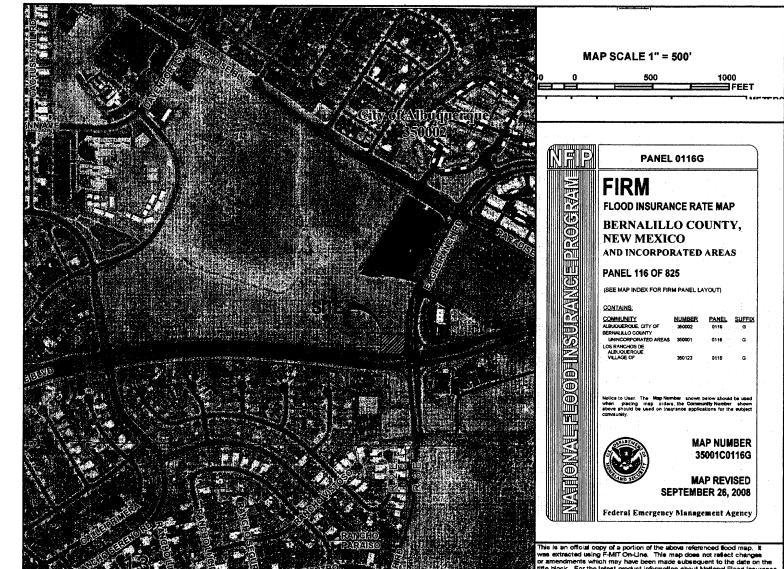
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Kids



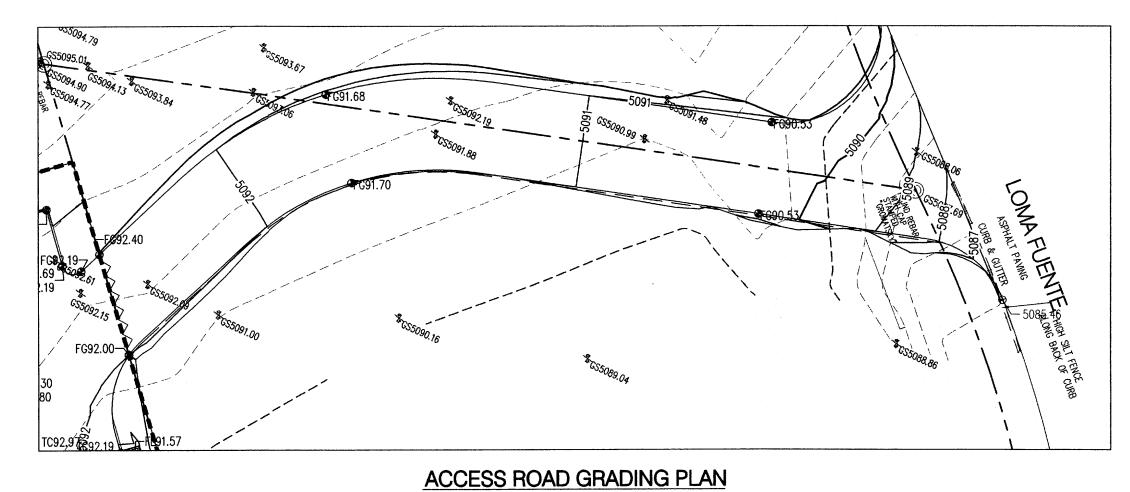


VICINITY MAP: C-12



FEMA FIRM MAP # 35001C0116G

SITE DRAINAGE MANAGEMENT PLAN



	PROPERTY LINE
	EXISTING CONTOURS
€ 65.23	PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE TW=TOP OF WALL, BW=BOTTOM OF WALL EX=EXISTING, TG=TOP OF GRADE
S=2.0%	PROPOSED DIRECTION OF FLOW
********	WATER BLOCK
	PROPOSED RETAINING WALL
5305	PROPOSED INDEX CONTOURS
	PROPOSED INTER CONTOURS
	PROPOSED CURB & GUTTER
	EASEMENT
SD	PROPOSED STORM DRAIN LINE

LEGEND

Bohannan A Huston
www.bhinc.com 800.877.5332

project title

P: $\20150304\CDP\Plans\General\CD'S$ (Building Permit) $\20150304dmp01.dwg$ Thu, 25-Jun-2015 — 4: 26:pm, Plotted by: GBROUGHT

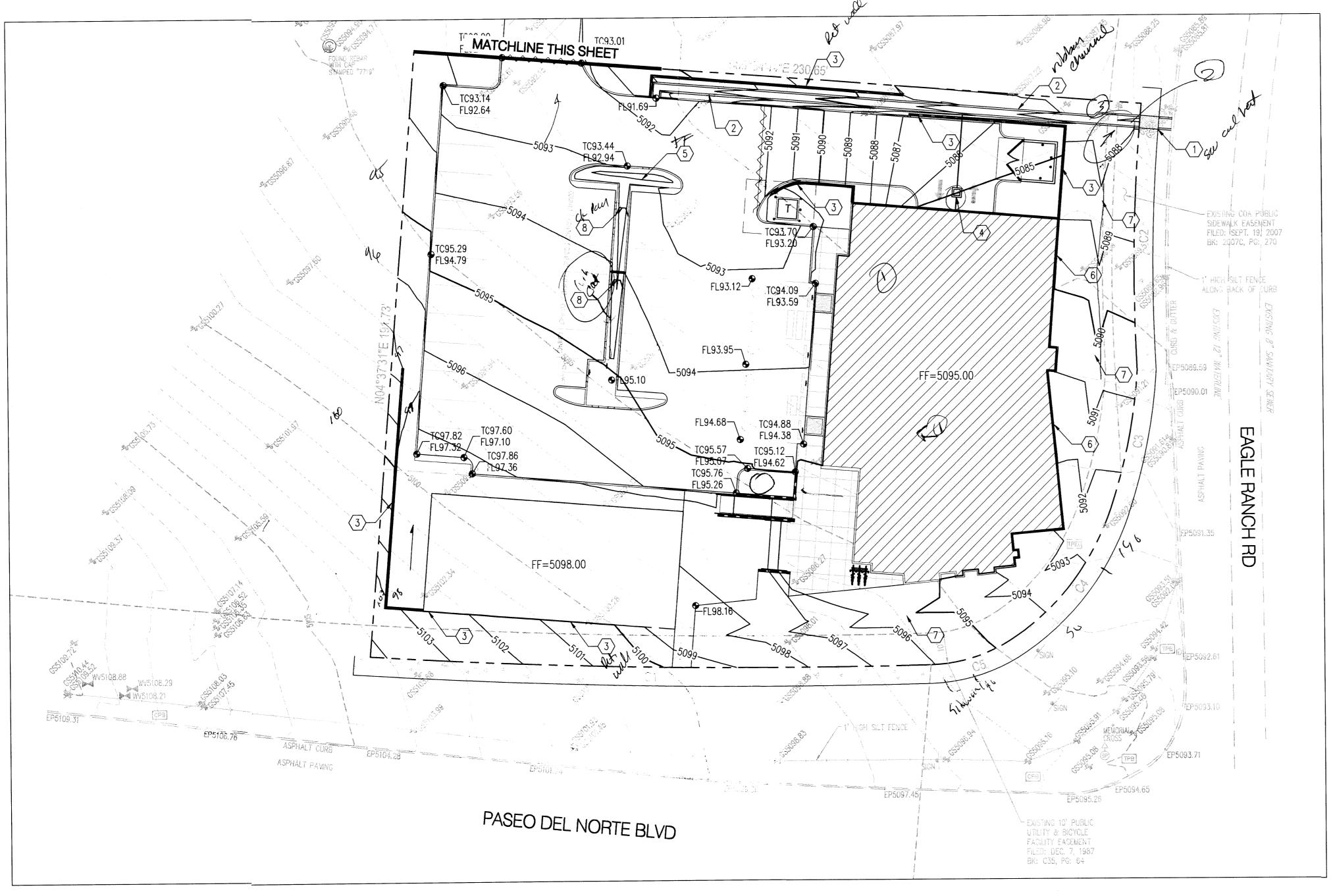
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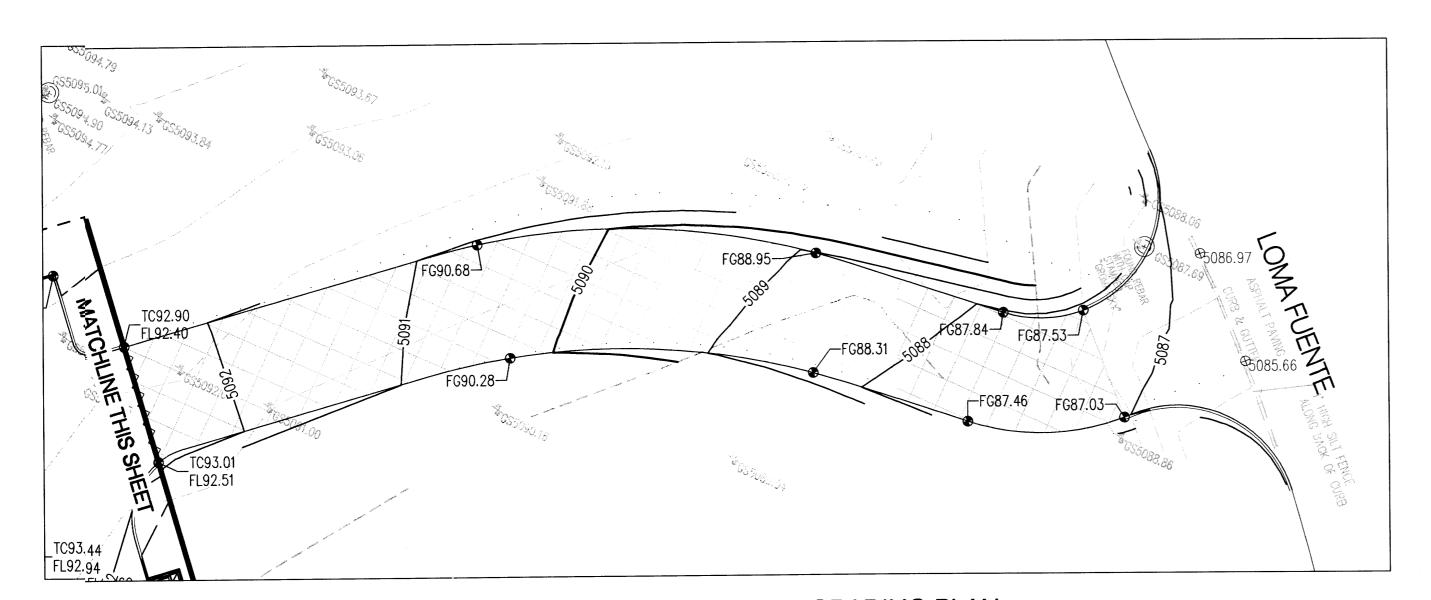
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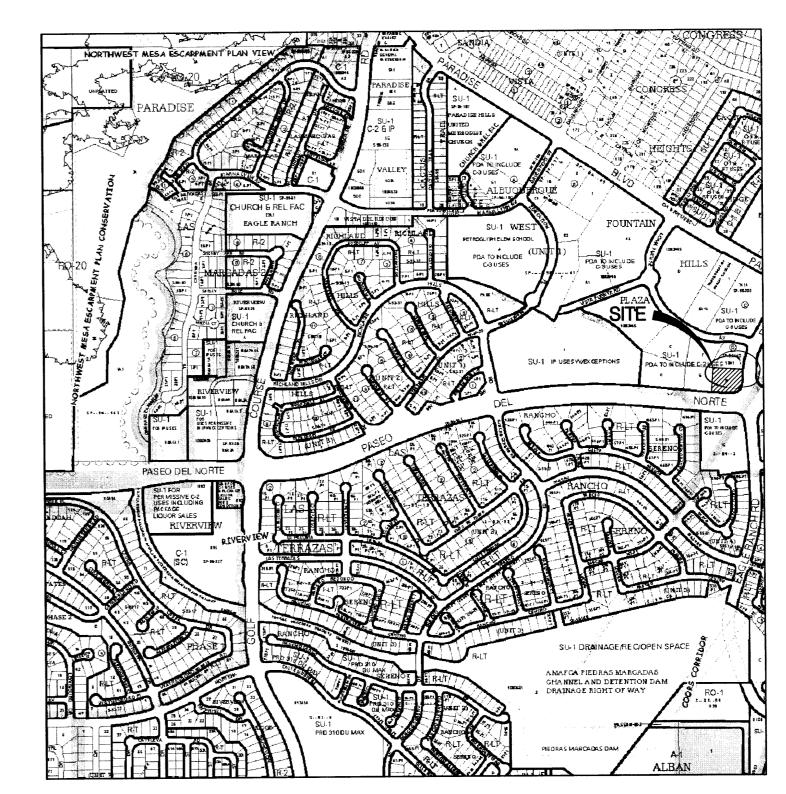
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ACCESS ROAD CONCEPTUAL GRADING PLAN



VICINITY MAP: C-12

GRADING KEYED NOTES

- 1. INSTALL SIDEWALK CULVERT
- 2. INSTALL RIBBON CHANNEL
- 3. INSTALL RETAINING WALL
- 4. INSTALL SUMP PUMP
- 5. POND FOR FIRST FLUSH
- S. BUILDING STEM WALL
- SWALE TO KEEP RUNOFF AWAY FROM BUILDING AND RETAINING WALLS
- 8. CHECK DAM





PROPERTY LINE

EXISTING CONTOURS

LEGEND

PROPOSED SPOT ELEVATION

TC=TOP OF CURB, FL=FLOW LINE

TW=TOP OF WALL, BW=BOTTOM OF WALL

EX=EXISTING, TG=TOP OF GRADE

S=2.0% PROPOSED DIRECTION OF FLOW

WATER BLOCK

WATER BLOCK

PROPOSED RETAINING WALL

PROPOSED INDEX CONTOURS

PROPOSED INTER CONTOURS

PROPOSED CURB & GUTTEREASEMENTPROPOSED STORM DRAIN LINE

Bohannan A Huston
www.bhinc.com 800.877.5332

by revisio

Mullen Heller

Architecture P.C.

924 Park Avenue SW
Suite B

Suite B Albuquerque 87102 505 268 4144[p] 505 268 4244 [f]

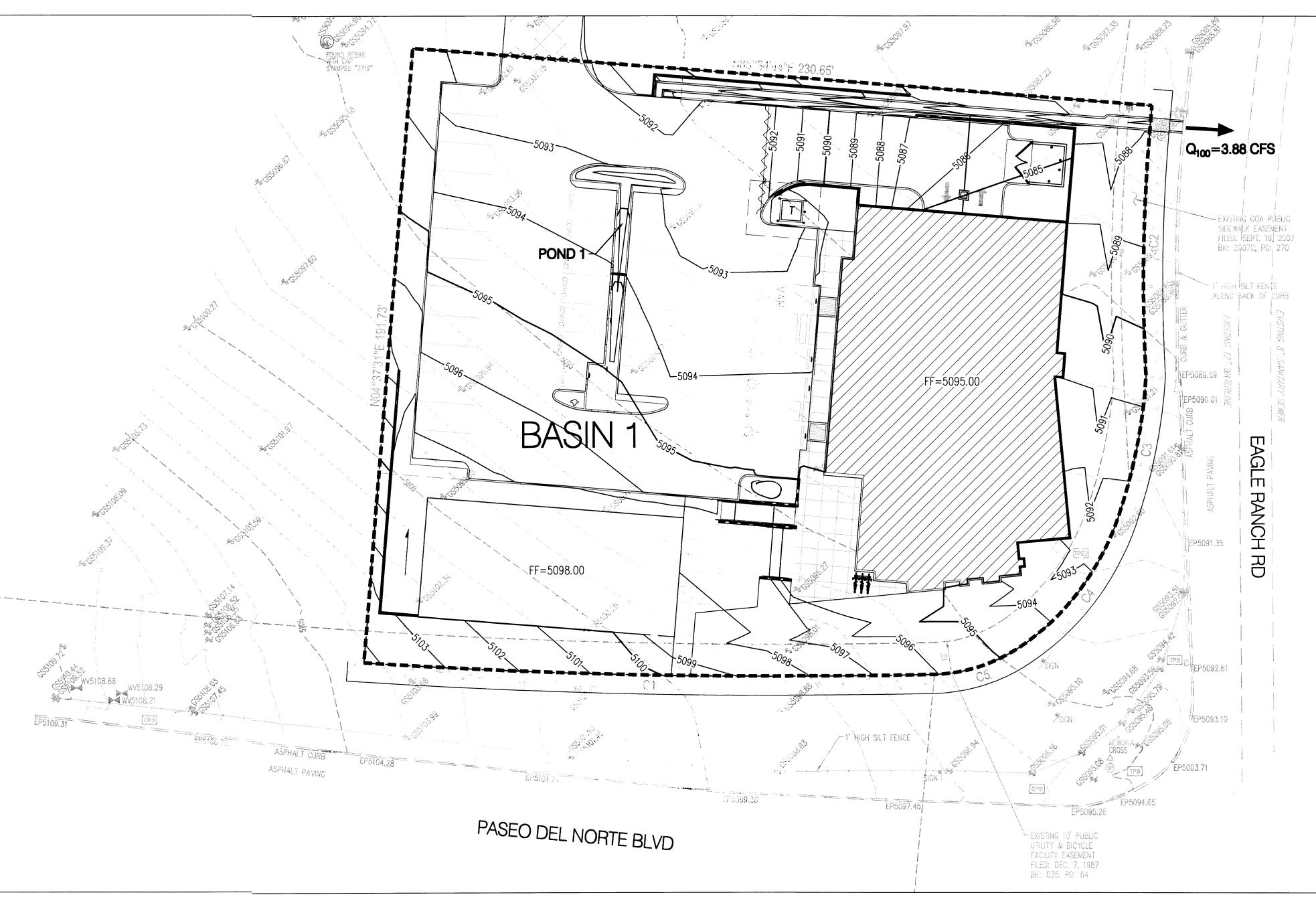
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ob number 2015036
drawn by Mt
project manager G8

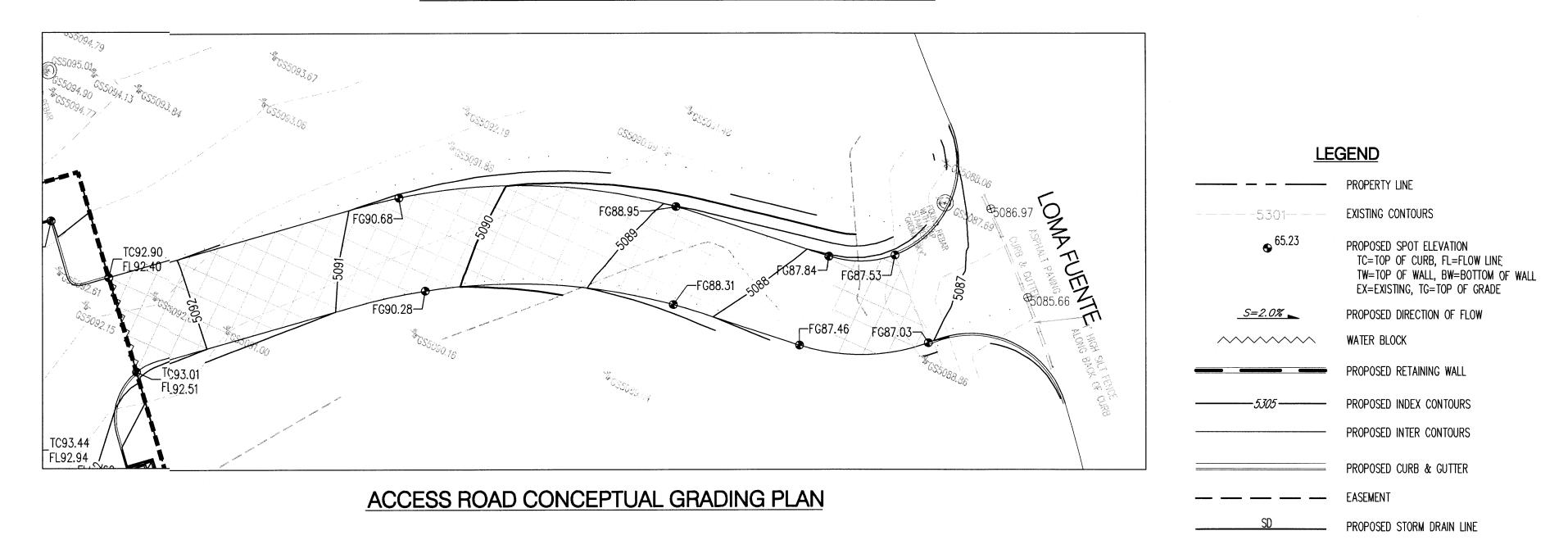
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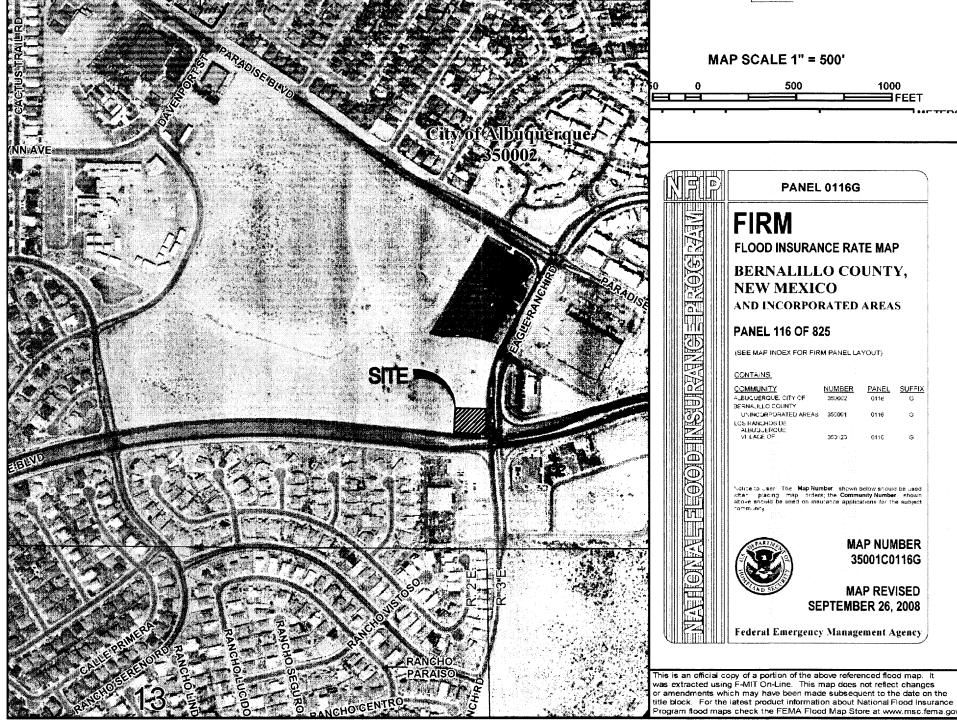
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SITE CONCEPTUAL DRAINAGE MANAGEMENT PLAN





FEMA FIRM MAP # 35001C0116G

				Smile	s for Kia	ls Denta	I Office				
		Prop	osed Ult	imate De	evelopme	ent Cond	itions Ba	sin Data	Table		
This t	able is based	on the DPM	Section 22.2,	Zone:	1						
Basin	Area	Area	Lan	and Treatment Percentages		Q(100yr)	Q(100yr-6hr)	WT E	V (100yr-6hr)	V (100yr-10day	
ID	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	CF
Prop	osed										
1	42493	0.98	0.0%	0.0%	26.0%	74.0%	3.98	3.88	1.72	6074	9926
TOTAL	42493	**0.98						3.88			***9926

PROPOSED BASIN DATA TABLE

INTRODUCTION:

THE PROJECT IS LOCATED ON THE NORTHWEST INTERSECTION OF PASEO DEL NORTE BLVD AND EAGLE RANCH RD. THIS SITE IS NOT WITHIN A DEFINED FLOOD ZONE AS SHOWN ON FIRM MAP NUMBER 35001C0116G (THIS SHEET). THE PURPOSE OF THIS SUBMITTAL IS TO PROVIDE A DRAINAGE MANAGEMENT PLAN FOR THE DEVELOPMENT OF SMILES FOR KIDS DENTIST OFFICE AND REQUEST SITE DEVELOPMENT PLAN FOR BUILDING PERMIT APPROVAL.

EXISTING CONDITIONS:

THE 0.98 ACRE SITE IS CURRENTLY UNDEVELOPED. THE SITE SLOPES TO THE NORTH / NORTHEAST WHERE THE RUNOFF OPENLY DISCHARGES INTO EAGLE RANCH RD.

BASED ON THE DRAINAGE STUDY FOR FOUNTAIN HILLS (CITY OF ALBUQUERQUE DRAINAGE FILE #C12/D3B), THE ALLOWABLE PEAK DISCHARGE FROM THE SITE IS APPROXIMATELY 4.08 CFS.

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THE ULTIMATE OUTFALL LOCATION IS EAGLE RANCH ROAD THROUGH MEANS OF RIBBON CHANNEL AND A SMALL POND (POND 1) IN THE PARKING LOT USED TO MITIGATE THE FIRST FLUSH. A PORTION OF THE SITE DRAINS INTO THE PARKING GARAGE, THAT FLOW IS THEN DIRECTED INTO A SUMP PUMP WHERE IT DISCHARGES INTO SANITARY SEWER

OFFSITE PRIVATE ACCESS ROAD IS NOT INCLUDED IN THE CALCULATION. RUNOFF FROM TRACT 10—A—1 WILL BE ADDRESSED WITH THE DEVELOPMENT OF THAT TRACT.

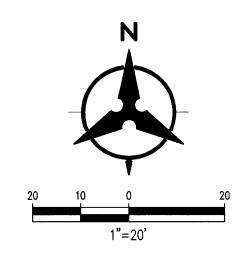
FIRST FLUSH CALCULATIONS:

IMPERVIOUS AREA: 28,868 SF VOLUME REQUIRED: 1,058 CF VOLUME PROVIDED: 315 CF

THERE WERE MANY CONTRIBUTING FACTORS THAT LIMITED THE VOLUME THAT COULD BE INCORPORATED INTO THE SITE DESIGN. THE SITE HAS AN EXISTING SLOPE OF APPROXIMATELY 10.00%. STEEP SLOPE SITES MAKE IT CHALLENGING TO INCORPORATE SHALLOW RETENTION AREAS IN THE LANDSCAPE DESIGN AND REDUCE THE ACTUAL VOLUME INTERCEPTED. IN ADDITION, BUILDING AND SITE PARKING SET BACKS LIMITED THE AREA AVAILABLE TO PROVIDE RETENTION PONDS WHERE THEY WOULD BE MOST EFFECTIVE AT TREATING THE FIRST FLUSH. ANOTHER SITE CONSTRAINT IS AN EXISTING UTILITY EASEMENT (ALONG EAGLE RANCH AND PASEO DEL NORTE) CONTAINING COMMUNICATION AND GAS LINES. GIVEN THE SITE CONSTRAINTS, THIS DESIGN MAXIMIZED THE FIRST FLUSH RETAINED WITHIN THE PARKING LOT PONDING AREA.

CONCLUSION:

THE PEAK DISCHARGE FROM THE SITE IS 3.88 CFS WHICH IS LESS THAN THE ALLOWABLE PEAK DISCHARGE RATE, THEREFORE WE ARE IN CONFORMANCE WITH CITY OF ALBUQUERQUE HYDROLOGY REQUIREMENTS AND REQUEST SITE DEVELOPMENT PLAN FOR BUILDING PERMIT APPROVAL.



Bohannan Huston
www.bhinc.com
800.877.5332

Aullen Heller

Mullen Heller

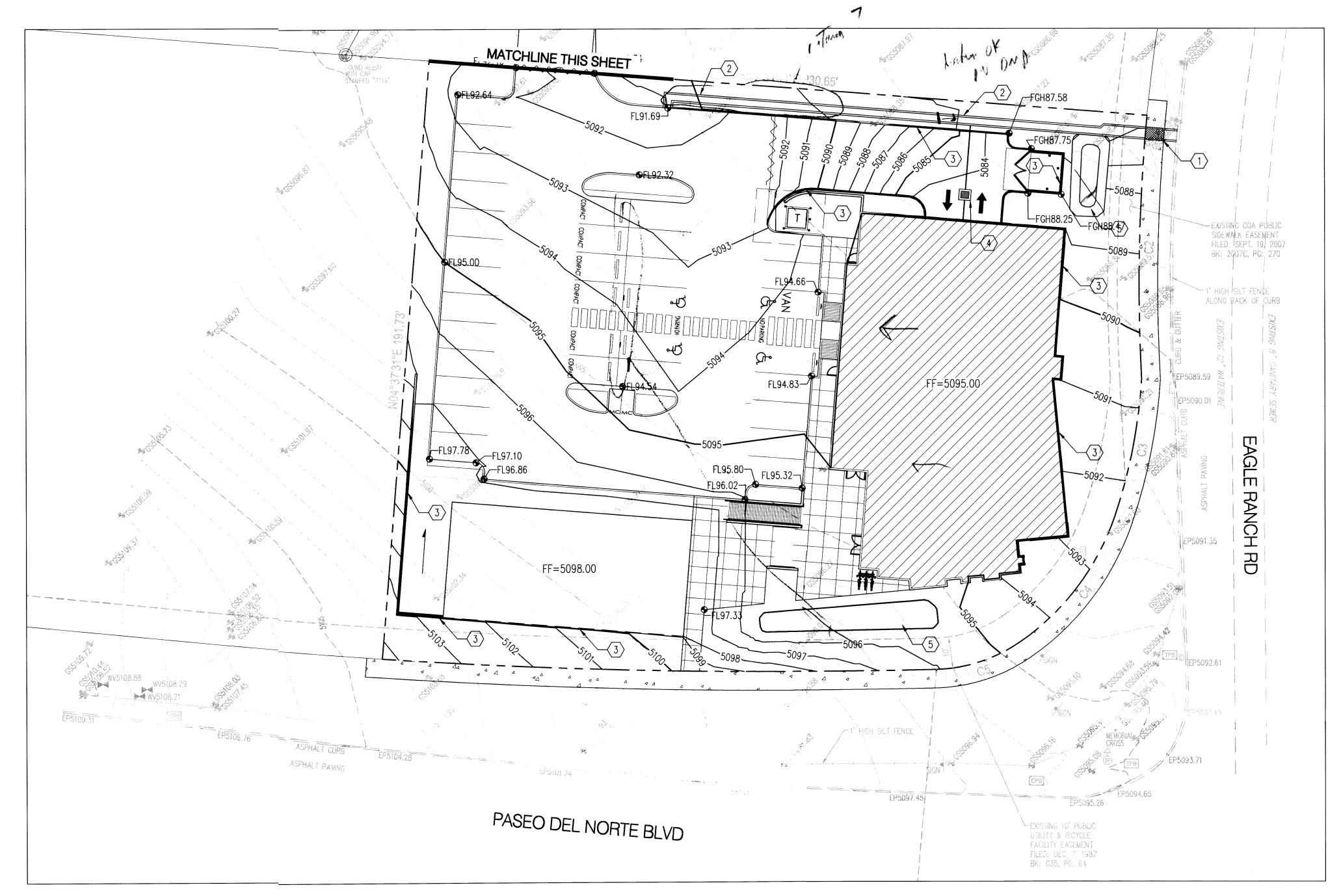
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Architecture P.C.

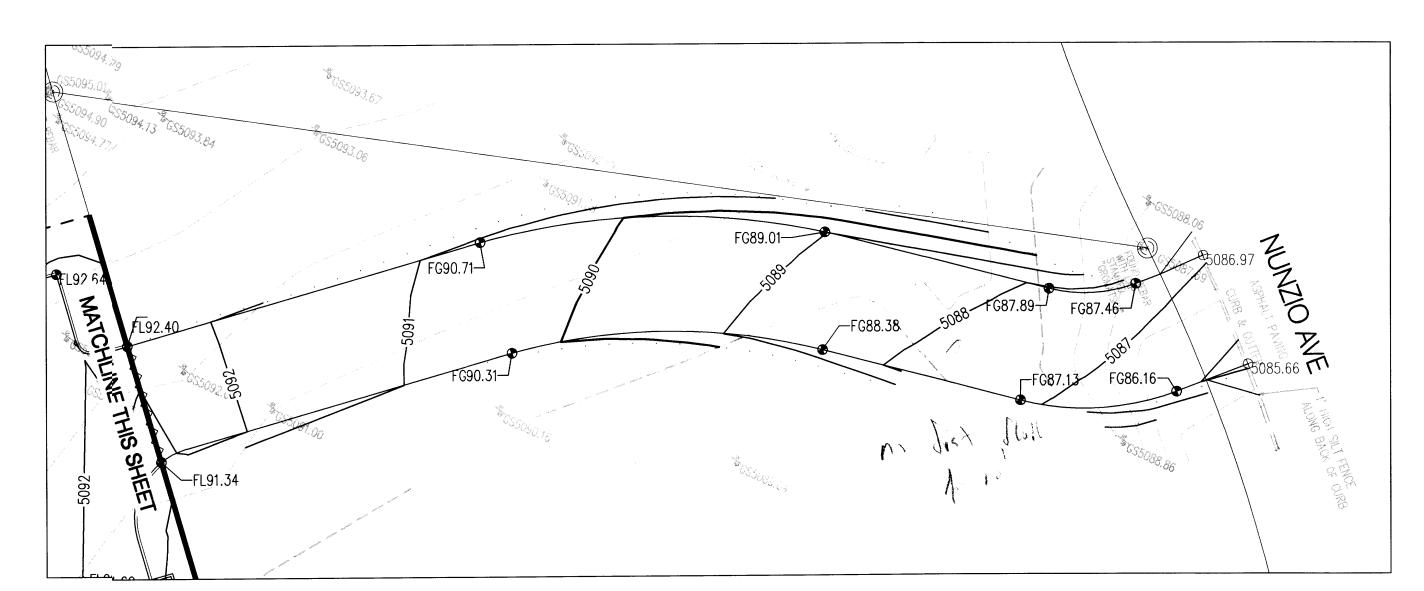
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drawn by MHS
project manager GSB
date 12.12.2014

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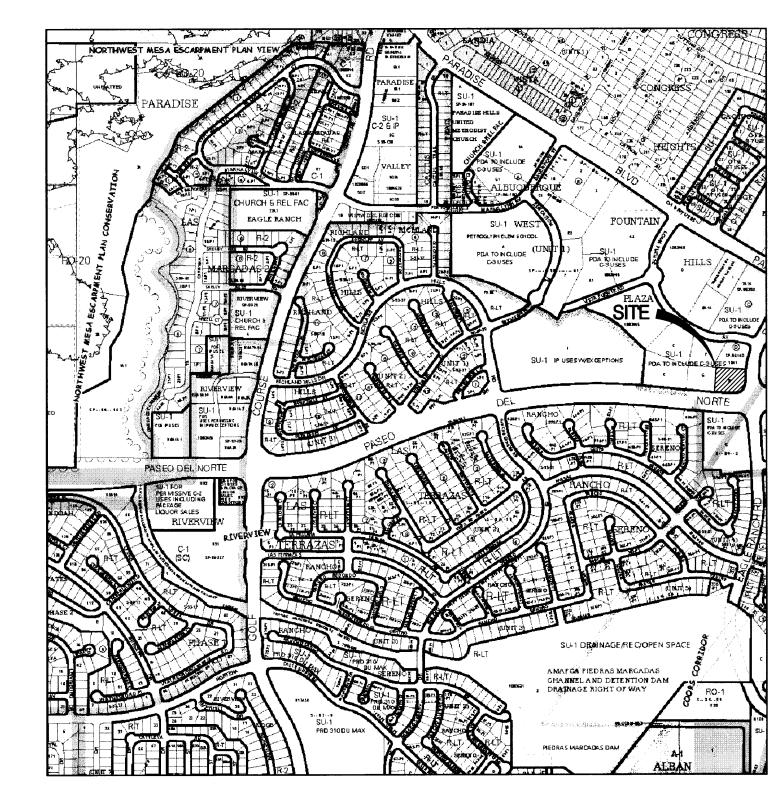
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SITE CONCEPTUAL GRADING PLAN



ACCESS ROAD CONCEPTUAL GRADING PLAN

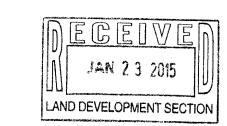


VICINITY MAP: C-12

☐ GRADING KEYED NOTES

- 1. INSTALL SIDEWALK CULVERT
- 2. INSTALL RIBBON CHANNEL
- 3. INSTALL RETAINING WALL
- 4. INSTALL SUMP PUMP

5. POND FOR FIRST FLUSH



<u>LEGEND</u>

PROPERTY LINE

EXISTING CONTOURS

PROPOSED SPOT ELEVATION
TC=TOP OF CURB, FL=FLOW LINE
TW=TOP OF WALL, BW=BOTTOM OF WALL
EX=EXISTING, TG=TOP OF GRADE

PROPOSED DIRECTION OF FLOW

WATER BLOCK

PROPOSED INDEX CONTOURS

PROPOSED INTER CONTOURS

PROPOSED CURB & GUTTER

PROPOSED STORM DRAIN LINE



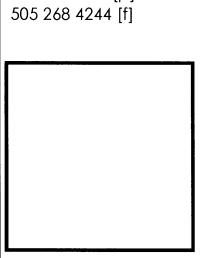
Bohannan Huston
www.bhinc.com
800.877.5332

rev date by revisit



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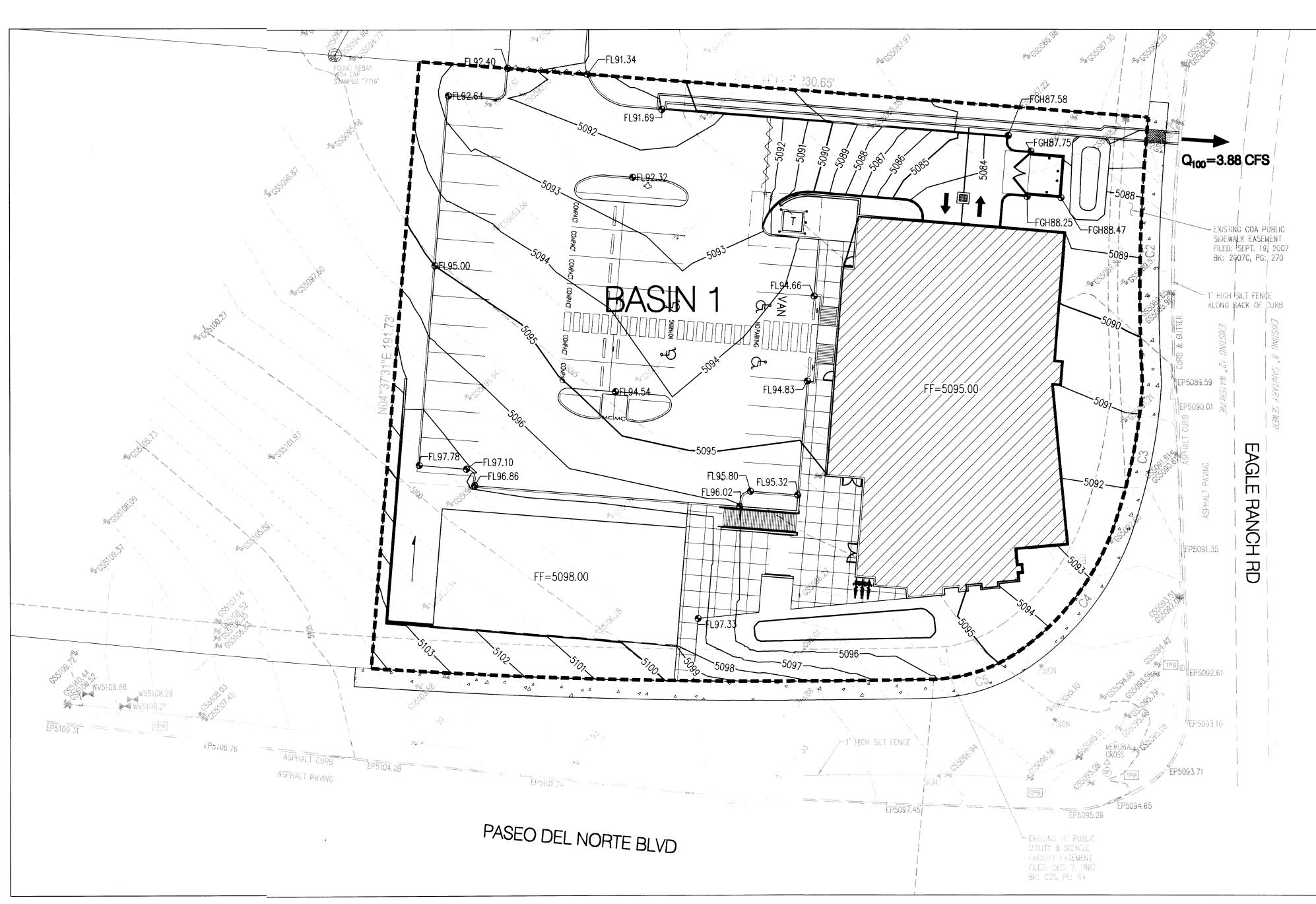
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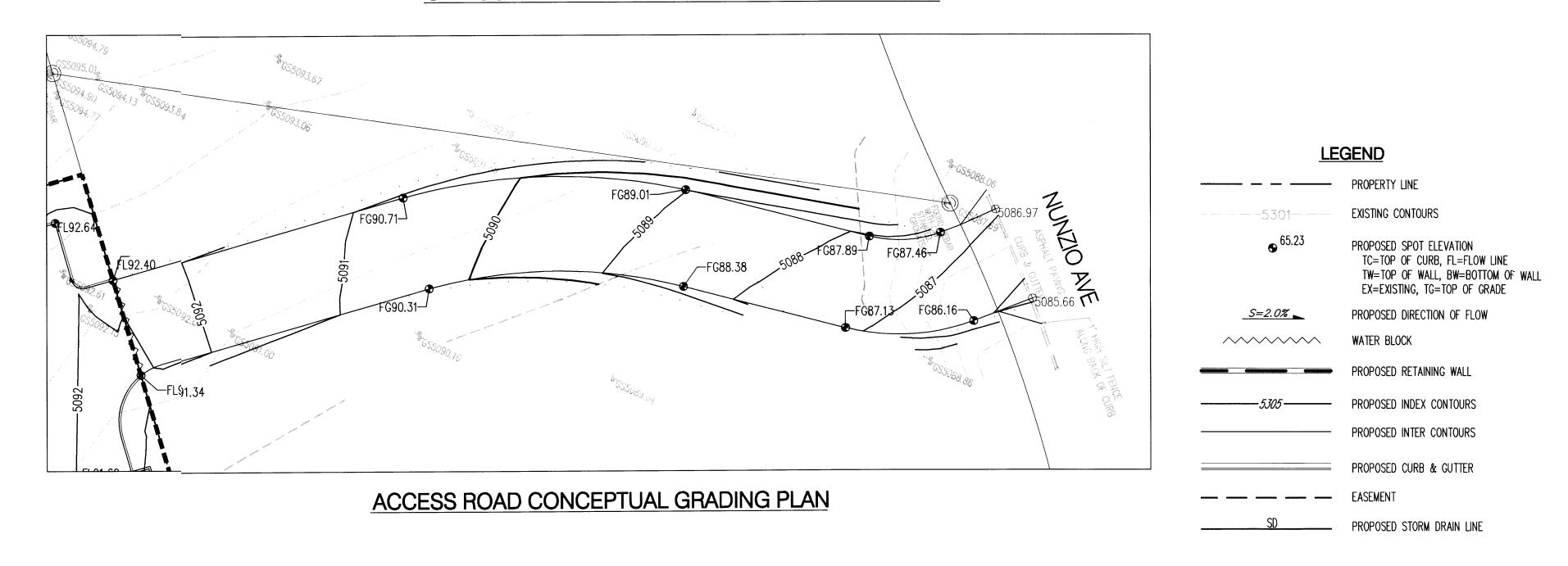
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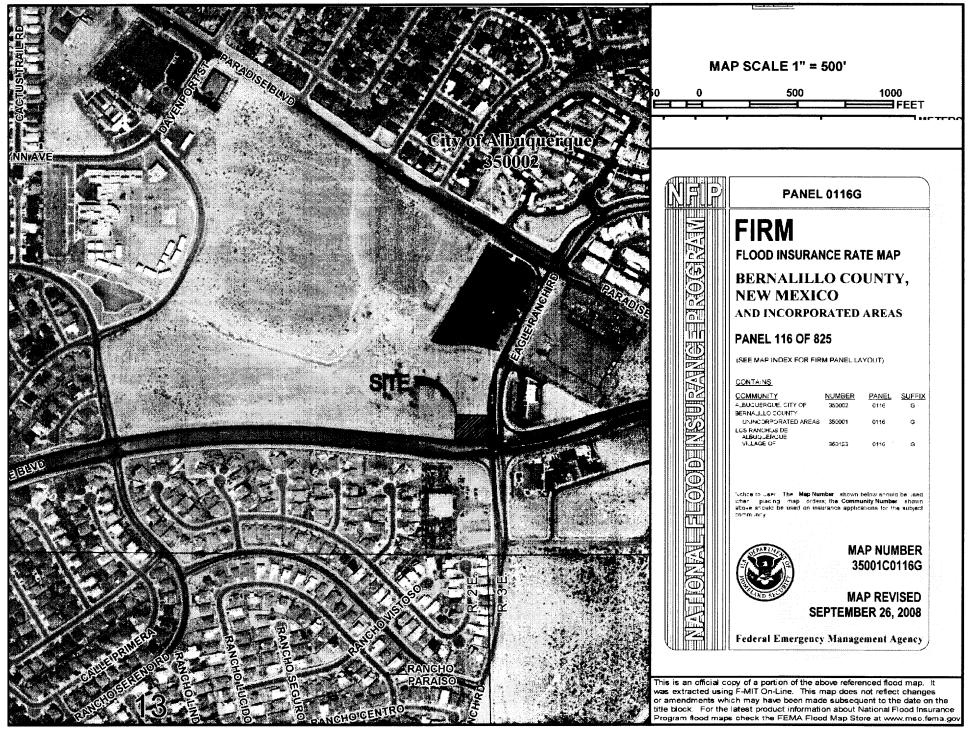
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les for Kids Dental Office Eagle Ranch Road, NW. erque, New Mexico 87114



SITE CONCEPTUAL DRAINAGE MANAGEMENT PLAN





FEMA FIRM MAP # 35001C0116G

				Smile	s for Kid	ls Denta	I Office				
		Prop	osed Ult	imate De	velopme	ent Cond	itions Ba	sin Data	Table		
This t	able is based	on the DPM	Section 22.2,	Zone:	1						
Basin	Area	Area	Lan	Land Treatment Percentages		Q(100yr)	Q (100yr-6hr)	WTE	V (100yr-6hr)	V (100yr-10da	
ID	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	CF
Prop	osed										
1	42493	0.98	0.0%	0.0%	26.0%	74.0%	3.98	3.88	1.72	6074	9926
TOTAL	42493	**0.98						3.88			***9926

PROPOSED BASIN DATA TABLE

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THE PROJECT IS LOCATED ON THE NORTHWEST INTERSECTION OF PASEO DEL NORTE BLVD AND EAGLE RANCH RD. THIS SITE IS NOT WITHIN A DEFINED FLOOD ZONE AS SHOWN ON FIRM MAP NUMBER 35001C0116G (THIS SHEET). THE PURPOSE OF THIS SUBMITTAL IS TO PROVIDE A DRAINAGE MANAGEMENT PLAN FOR THE DEVELOPMENT OF SMILES FOR KIDS DENTIST OFFICE AND REQUEST SITE DEVELOPMENT PLAN FOR BUILDING PERMIT APPROVAL.

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PROPOSED CONDITIONS:

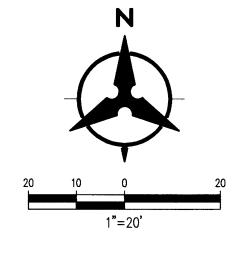
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THE ENTIRE SITE ACTS AS BASIN 1. THE ULTIMATE OUTFALL LOCATION IS EAGLE RANCH ROAD THROUGH MEANS OF RIBBON CHANNEL AND SEVERAL SMALL PONDS USED TO MITIGATE THE FIRST FLUSH. A PORTION OF THE SITE DRAINS INTO THE PARKING GARAGE, THAT FLOW IS THEN DIRECTED INTO A SUMP PUMP WHERE IT DISCHARGES INTO THE ADJACENT RIBBON CHANNEL AND ULTIMATELY OUTFALLS INTO EAGLE RANCH RD.

OFFSITE PRIVATE ACCESS ROAD IS NOT INCLUDED IN THE CALCULATION. RUNOFF FROM TRACT 10-A-1 WILL BE ADDRESSED WITH THE DEVELOPMENT OF THAT TRACT.

CONCLUSION:

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Bohannan A Huston
www.bhinc.com
800.877.5332

by revision

Mullen Heller

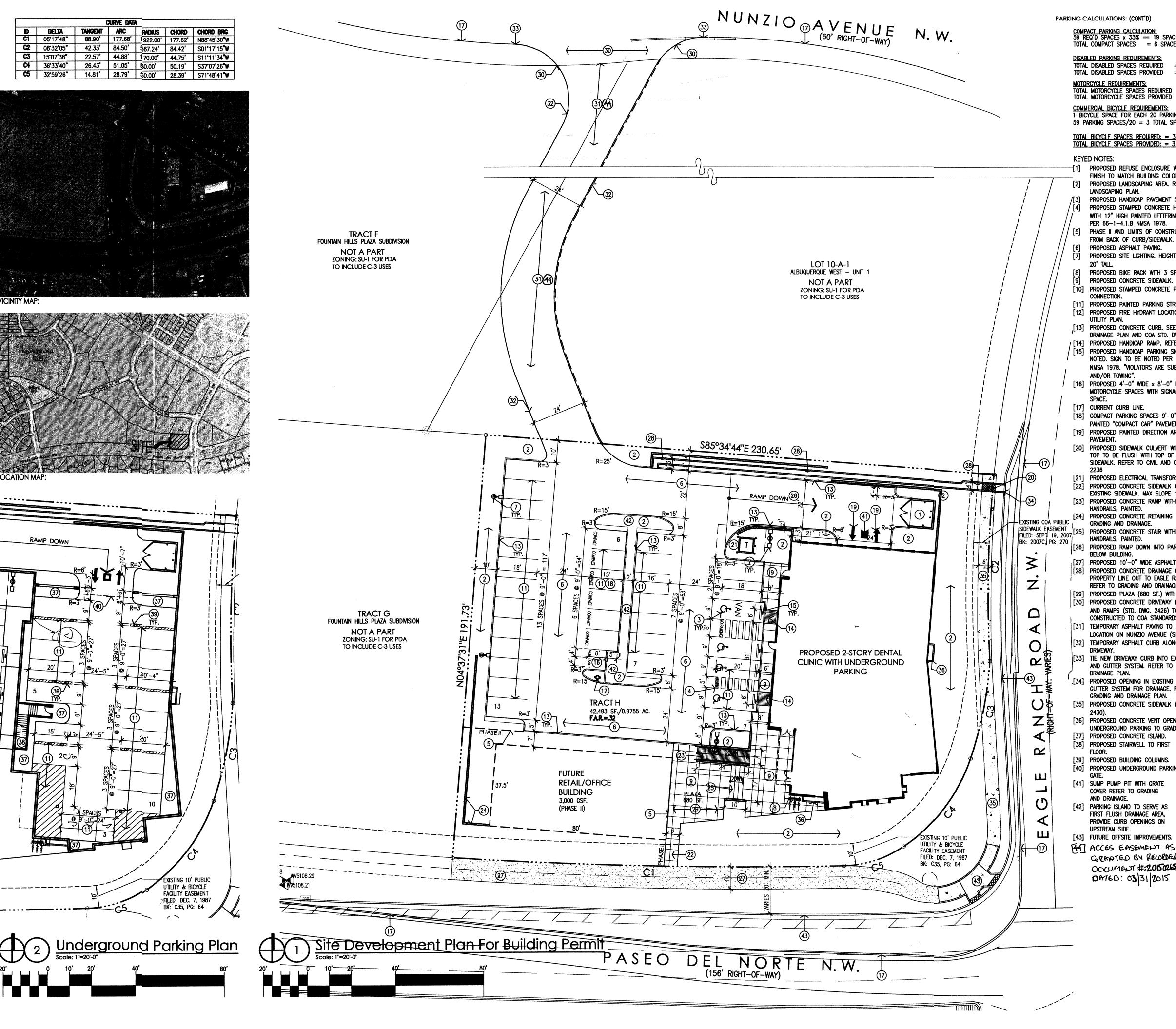
Architecture P.C.

924 Park Avenue SW
Suite B

Albuquerque 87102

505 268 4144[p]

Smiles for Kids Der 9201 Eagle Ranch Road, NW. Albuquerque, New Mexico 871



PARKING CALCULATIONS: (CONT'D) SITE DEVELOPMENT DATA: COMPACT PARKING CALCULATION:
59 REQ'D SPACES x 33% == 19 SPACES ALLOWED LEGAL DESCRIPTION: TRACT H OF FOUNTAIN HILLS PLAZA SUBDIVISION. TOTAL COMPACT SPACES = 6 SPACES PROVIDED CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO **DISABLED PARKING REQUIREMENTS:** TOTAL DISABLED SPACES REQUIRED = 4 SPACES LAND AREA: TOTAL DISABLED SPACES PROVIDED = 4 SPACES 0.9755 ACRES (42,493 SQ. FT.) **CURRENT ZONING:** MOTORCYCLE REQUIREMENTS: TOTAL MOTORCYCLE SPACES REQUIRED = 2 SPACE TOTAL MOTORCYCLE SPACES PROVIDED = 2 SPACE SU-1 FOR PDA TO INCLUDE C-3 USES (PERMISSIVE AND CONDITIONAL) COMMERCIAL BICYCLE REQUIREMENTS: **ZONE ATLAS PAGE:** 1 BICYCLE SPACE FOR EACH 20 PARKING SPACES = C-12-Z 59 PARKING SPACES/20 = 3 TOTAL SPACE REQUIRED BUILDING AREAS: (GROSS BUILDING AREAS) 2-STORY DENTAL OFFICE: 10,674 GSF. TOTAL BICYCLE SPACES REQUIRED: = 3 SPACES
TOTAL BICYCLE SPACES PROVIDED: = 3 SPACES 7,678 GSF.-1ST FLOOR 2,996 GSF.-2ND FLOOR 3,000 SF. FUTURE BUILDING (PHASE II): TOTAL GROSS BUILDING AREA 13,674 SF. PROPOSED REFUSE ENCLOSURE WITH STUCCO FINISH TO MATCH BUILDING COLOR. SITE DEVELOPMENT PHASING: PROPOSED LANDSCAPING AREA. REFER TO PHASE L LANDSCAPING PLAN. PHASE I WILL INCLUDE THE CONSTRUCTION OF PROPOSED 2-STORY DENTAL CLINIC, UNDERGROUND PARKING BELOW PROPOSED HANDICAP PAVEMENT SIGN. BUILDING FOOTPRINT, TEMPORARY PAVING OF ACCESS DRIVE PROPOSED STAMPED CONCRETE HANDICAP AISLE THRU ADJACENT LOT 10-A-1 TO THE NORTH ONTO WITH 12" HIGH PAINTED LETTERING "NO PARKING" NUNZIO AVENUE NW. AND RELATED AT GRADE PARKING FOR PER 66-1-4.1.B NMSA 1978. PROPOSED USES. PHASE II AND LIMITS OF CONSTRUCTION LINE PHASES 1: FROM BACK OF CURB/SIDEWALK. PHASE II WILL INCLUDE THE CONSTRUCTION OF THE PROPOSED ASPHALT PAVING. FUTURE BUILDING ONLY. PHASE II SHALL BE REVIEWED AND PROPOSED SITE LIGHTING. HEIGHT NOT TO EXCEED APPROVED BY THE DEVELOPMENT REVIEW BOARD (DRB) AND ADHERE TO THE DESIGN STANDARDS INCLUDED IN THE PREVIOUSLY APPROVED SITE DEVELOPMENT PLAN FOR Mullen Heller PROPOSED BIKE RACK WITH 3 SPACES. SUBDMSION. PROPOSED CONCRETE SIDEWALK. Architecture P.C. SITE DEVELOPMENT GENERAL NOTES: [10] PROPOSED STAMPED CONCRETE PEDESTRIAN [A] THE DESIGN STANDARDS INCLUDED IN THE APPROVED CONNECTION. 924 Park Avenue SW SITE DEVELOPMENT PLAN FOR SUBDIVISION—FOUNTAIN PROPOSED PAINTED PARKING STRIPING. HILLS PLAZA (EPC APPROVAL: MAY 2007 & DRB PROPOSED FIRE HYDRANT LOCATION. REFER TO APPROVAL: JUNE 2007) SHALL GOVERN ALL NEW UTILITY PLAN. Albuquerque 87102 BUILDINGS FOR TRACT H OF THIS DEVELOPMENT. [13] PROPOSED CONCRETE CURB. SEE GRADING & 505 268 4144[p] [B] THE PARKING LOT DIMENSIONS ARE FROM FACE OF DRAINAGE PLAN AND COA STD. DWG. 2415A. CURB TO FACE OF CURB. 505 268 4244 [f] PROPOSED HANDICAP RAMP. REFER TO DETAIL. [C] LANDSCAPING AND SIGNING WILL NOT INTERFERE WITH PROPOSED HANDICAP PARKING SIGN. "VAN" WHERE CLEAR SIGHT REQUIREMENTS. THEREFORE, SIGNS. NOTED. SIGN TO BE NOTED PER 66-7-352.4C WALLS, TREES, AND SHRUBBERY BETWEEN 3 AND 8 NMSA 1978. "VIOLATORS ARE SUBJECT TO A FINE FEET TALL (AS MEASURED FROM THE GUTTER PAN) WILL NOT BE ACCEPTABLE IN THIS AREA. AND/OR TOWING". [D] ANY ENCROACHMENT OR OVERHANG INTO THE ROW [16] PROPOSED 4'-0" WIDE x 8'-0" LONG FROM SIGNS, FENCES, CANOPY, ROOF LINES, ETC. WILL MOTORCYCLE SPACES WITH SIGNAGE AT EACH REQUIRE AN ANNUAL REVOCABLE ENCROACHMENT [17] CURRENT CURB LINE. [E] ALL CURBS SURROUNDING LANDSCAPING, SHALL [18] COMPACT PARKING SPACES 9'-0"x15'-0" WITH PROVIDE WATER RUNOFF OPENINGS TO ALLOW SURFACE PAINTED "COMPACT CAR" PAVEMENT DESIGNATION. DRAINAGE INTO THE LANDSCAPED AREAS (WATER [19] PROPOSED PAINTED DIRECTION ARROW ON HARVESTING). [F] ALL SIGNAGE AND FENCES WILL BE DONE UNDER [20] PROPOSED SIDEWALK CULVERT WITH METAL GRATE SEPARATE PERMIT. TOP TO BE FLUSH WITH TOP OF CONCRETE [G] TRACTS C, F, & G ARE SUBJECT TO A TWENTY-FIVE SIDEWALK. REFER TO CIVIL AND COA STD. DWG. FOOT WIDE FLOATING ACCESS, WATER, DRAINAGE AND SANITARY SEWER EASEMENT FOR THE BENEFIT OF AND TO BE MAINTAINED BY TRACTS E, F, & G GRANTED PROPOSED ELECTRICAL TRANSFORMER LOCATION. WITH THIS PLAT. THIS EASEMENT WILL BE CONFINED PROPOSED CONCRETE SIDEWALK CONNECTION TO AND DEFINED WITH FUTURE PLATTING. PLAT OF EXISTING SIDEWALK. MAX SLOPE 1:12 FOUNTAIN HILLS PLAZA SUBDIVISION RECORDED ON: [23] PROPOSED CONCRETE RAMP WITH STEEL PIPE 09/19/07 HANDRAILS, PAINTED. SITE DEVELOPMENT SITE LIGHTING NOTES: [24] PROPOSED CONCRETE RETAINING WALL. REFER TO [A] THE LOCATION OF THE LIGHTING FIXTURES TOGETHER GRADING AND DRAINAGE. WITH ITS CUT-OFF ANGLE SHALL BE SUCH THAT IT SIDEWALK EASEMENT [25] PROPOSED CONCRETE STAIR WITH STEEL PIPE DOES NOT DIRECTLY SHINE ON ANY PUBLIC BK: 2007C, PG: 270 [26] PROPOSED RAMP DOWN INTO PARKING GARAGE RIGHT-OF-WAY OR ADJACENT RESIDENTIAL PROPERTY. [B] THE MAXIMUM HEIGHT OF A LIGHT POLE MEASURED BELOW BUILDING. FROM THE FINISH GRADE TO THE TOP OF THE POLE PROPOSED 10'-0" WIDE ASPHALT TRAIL. SHALL BE 20'-0" MAXIMUM PROPOSED CONCRETE DRAINAGE CHANNEL ALONG [C] LIGHTING TO BE PROVIDED ON COMMERCIAL BUILDING PROPERTY LINE OUT TO EAGLE RANCH ROAD. FACADES SHALL BE MOUNTED AT 12 FEET MAXIMUM. REFER TO GRADING AND DRAINAGE PLAN. [D] SITE LIGHTING SHALL BE FULLY SHIELDED, AND [29] PROPOSED PLAZA (680 SF.) WITH BENCH SEATING. HIGH-PRESSURE SODIUM LIGHTING AND UN-SHIELDED UPLIGHTING SHALL BE PROHIBITED AT 12 FEET [30] PROPOSED CONCRETE DRIVEWAY (STD. DWG. 2426) AND RAMPS (STD. DWG. 2426) TO BE PARKING CALCULATIONS: (NET LEASABLE AREAS) CONSTRUCTED TO COA STANDARDS. 31] TEMPORARY ASPHALT PAVING TO NEW DRIVEWAY PROPOSED 2-STORY DENTAL CLINIC: LOCATION ON NUNZIO AVENUE (SHOWN HATCHED). 7,178 NSF.-1ST FLOOR/200 = 36 SPACES 2,840 NSF.-2ND FLOOR/300 =9 SPACES 32] TEMPORARY ASPHALT CURB ALONGSIDE TEMPORARY REQUIRED SPACES 45 SPACES 33] TIE NEW DRIVEWAY CURB INTO EXISTING CURB FUTURE BUILDING: (PHASE II) 2,700 NSF./200 = AND GUTTER SYSTEM. REFER TO GRADING AND 14 SPACES TOTAL REQUIRED SPACES 59 SPACES PROPOSED OPENING IN EXISTING CURB AND TOTAL REQUIRED GUTTER SYSTEM FOR DRAINAGE. REFER TO TRANSIT REDUCTIONS: GRADING AND DRAINAGE PLAN. 59 SPACES REQ'D x 10% REDUCTION = [35] PROPOSED CONCRETE SIDEWALK (STD. DWG. (PROXIMITY TO BUS ROUTE 94) 59 x 10% = 53 TOTAL SPACES REQUIRED [36] PROPOSED CONCRETE VENT OPENING FROM TOTAL PARKING SPACES REQUIRED: = 53 SPACES UNDERGROUND PARKING TO GRADE ABOVE. TOTAL PARKING SPACES PROVIDED: = 53 SPACES PROPOSED CONCRETE ISLAND. 43 REGULAR SPACES PROPOSED STAIRWELL TO FIRST 6 COMPACT SPACE 4 HANDICAP VAN PARKING SPACE 39 PROPOSED BUILDING COLUMNS. PROPOSED UNDERGROUND PARKING PROJECT NUMBER: 1003445 APPLICATION NUMBER: 05EPC-00022 THIS PLAN IS CONSISTANT WITH THE SPECIFIC SITE DEVELOPMENT PLAN APPROV SUMP PUMP PIT WITH GRATE BY THE ENVIRONMENTAL PLANNING COMMISSION (EPC) DATED: AUGUST 18, 2005 COVER REFER TO GRADING AND THE FINDINGS AND CONDITIONS IN THE OFFICIAL NOTIFICATION OF DECISION AND DRAINAGE. [42] PARKING ISLAND TO SERVE AS IS AN INFRASTRUCTURE LIST REQUIRED? () YES () NO IF YES, THEN A SET OF APPROVED DRC PLANS WITH A WORK ORDER IS REQUIRED FOR ANY FIRST FLUSH DRAINAGE AREA, PROVIDE CURB OPENINGS ON CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY OR FOR CONSTRUCTION OF UPSTREAM SIDE. PUBLIC IMPROVEMENTS. [43] FUTURE OFFSITE IMPROVEMENTS. DRB SITE DEVELOPMENT PLAN SIGNOFF APPROVAL: 1497 ACCES EASEMENT AS 3/25/15 GRANTED BY RECORDED. TRAFFIC ENGINEER, TRANSPORTATION DIVISION OOCUMENT #:201502655 WILLIES DEVELOPMENT 05/11/15

Caro CS. Dremont

Civit c. Che

solid waste management

CITY ENGINEER

PARKS AND RECREATION DEPARTMENT

PENVIRONMENTAL HEALTH DEPARTMENT (CONDITIONAL)

DRB CHAIRPERSON, PLANNING DEPARTMENT

SOLID WASTE MANAGEMENT APPROVAL IS ATTACHED AS SEPARATE SHEET

SDPBP SHEET 1 of 7

9-25-15

3-25-15