CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director

Mayor Timothy M. Keller

May 28, 2021

Donald Briggs, P.E.
Don Briggs Engineering LLC
5324 Oakledge Ct. NW
Albuquerque, New Mexico 87120

RE: **8500 Glendale Ave. NE**
Permanent CO - Approved
Engineers Stamp Date; 12/4/20
Certification Stamp Date; 5/16/21

Dear Mr. Briggs,
The construction of the scour wall does not match the approved drawings nor do they match City standards. After expressing concern with this you have stated that you are willing to certify this design. Therefore, based solely upon the information provided in your certification received 5/20/2021 this plan is approved for Certificate of Occupancy release by Hydrology.

Please note based on our discussion on 5/28/21 this approval is contingent on the slope of the scour wall must be seeded with native seed mix per City specification 1012.2 to help stabilize the slope. Also the property owner is responsible for maintaining the scour wall up to replacing it if necessary.

Also be aware there is still an active work order regarding this property that must be completed.

If you have any questions, please contact me at 924-3999 or earmijo@cabq.gov.

Sincerely,

Ernest Armijo, P.E.
Principal Engineer, Planning Dept.
Development Review Services

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: 8500 Glendale Building Permit #: _____ Hydrology File #: B20D067

DRB#: _____ EPC#: _____ Work Order#: _____

Legal Description: Lot 5, Block 17, Tract 1, Unit 3, NAA

City Address: 8500 Glendale NE, Albuquerque, NM

Applicant: Don Briggs Engineering Contact: Don Briggs

Address: 5324 Oakledge Ct. NW Albuquerque, NM 87120

Phone#: 505-249-4843 Fax#: _____ E-mail: donbriggsengineering@gmail.com

Owner: John Jones Contact: John Jones

Address: 5901 WYOMING BLVD NE SUITE J303, Albuquerque, NM 87122

Phone#: 505-480-4537 Fax#: _____ E-mail: rtmf91@gmail.com

TYPE OF SUBMITTAL: ____ PLAT (___# OF LOTS) X RESIDENCE ____ DRB SITE ____ ADMIN SITE

IS THIS A RESUBMITTAL?: X Yes _____ No

DEPARTMENT: ____ TRAFFIC/ TRANSPORTATION X HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

X ENGINEER/ARCHITECT CERTIFICATION
____ PAD CERTIFICATION
____ CONCEPTUAL G & D PLAN
____ GRADING PLAN
____ DRAINAGE MASTER PLAN
____ DRAINAGE REPORT
____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
____ ELEVATION CERTIFICATE
____ CLOMR/LOMR
____ TRAFFIC CIRCULATION LAYOUT (TCL)
____ TRAFFIC IMPACT STUDY (TIS)
____ OTHER (SPECIFY) _____
____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

____ BUILDING PERMIT APPROVAL
X CERTIFICATE OF OCCUPANCY
____ PRELIMINARY PLAT APPROVAL
____ SITE PLAN FOR SUB'D APPROVAL
____ SITE PLAN FOR BLDG. PERMIT APPROVAL
____ FINAL PLAT APPROVAL
____ SIA/ RELEASE OF FINANCIAL GUARANTEE
____ FOUNDATION PERMIT APPROVAL
____ GRADING PERMIT APPROVAL
____ SO-19 APPROVAL
____ PAVING PERMIT APPROVAL
____ GRADING/ PAD CERTIFICATION
____ WORK ORDER APPROVAL
____ CLOMR/LOMR
____ FLOODPLAIN DEVELOPMENT PERMIT
____ OTHER (SPECIFY) _____

DATE SUBMITTED: 5/16/21 By: Don Briggs

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

DON BRIGGS
Engineering LLC

May 15, 2021

Mr. Shahab Biazar, P.E.
City Engineer
Development Review Services
City of Albuquerque
Via email sbiazar@cabq.gov

Dear Mr. Biazar:
Based on discussions with City staff I have performed a review of the materials and construction of the scour wall installation at 8500 Glendale NE. The results I have presented here are based on multiple site visits, field measurements, photographs and a re-examination of the above ground rip rap material.

The approved design of the scour wall called for the installation of Type L (9" mean particle size) angular rip rap in a 1.2' thick layer. The top of the rip rap layer was to extend below grade in the arroyo channel to an elevation 4.5' below the thalweg of the channel. Cut stakes for this area were provided by Dehler Surveying. A site visit I completed on 9/9/2020 showed the excavation for the placement of the below grade material met or exceeded the design requirements. I have attached a photo of the excavation. The recycled concrete placed in the excavation area does not meet the exact particle size distribution for Type L rip rap as presented in Section 109 as much of the material is larger than the 9" mean particle size and some of the material is smaller than the 3" minimum (see photo 10/5/2020). However, I believe the material will meet the intent for scour protection based on the larger size and also the length between the toe of the slope and the south edge of the scour protection is more than twice the design requirement of 5' (see G&D plan B20D067).

The rip rap material placed on the slope was examined on 3/3/21 for the purpose of certification of the project. The material again is significantly larger than the 9" Type L requirement. There were some piles of dirt and construction debris on the surface of the rip rap. This material was not addressed in the certification as it does not affect the integrity of the scour wall.

On 5/5/21 I revisited the site to document the size and construction of the rip rap. I have attached photos of the material with a measuring tape that shows the size of the material. I also examined the pore spaces between the rip rap blocks to check that the smaller dirt material and construction debris was placed on top rather than within the layer. The layer had many open spaces which indicate the finer material was not brought in with the rip rap. However I did find some isolated pieces of broken concrete block that did appear to have come in with the rip rap. There were very few of these.

During this visit I observed that the amount of construction debris was significantly more than I saw at my previous visit. The Owner indicated he would have his landscaper remove the debris, break up and redistribute some of the larger (4'+) concrete slabs and plate the rip rap with dirt to promote vegetative growth.

My last visit on 5/14/21 found the work completed. I have provided photos of the completed work.

I will certify the material and construction of the scour wall based on the above information. I would like to thank your staff for questioning this project as it was not constructed under the required work order procedures. I picked up this project after it had been started and was unaware of this requirement.

As this is a scour wall and is not intended to protect the home over time I would suggest making sure the Covenant makes clear that the Owner is responsible for maintaining the infrastructure in its current condition.

Sincerely

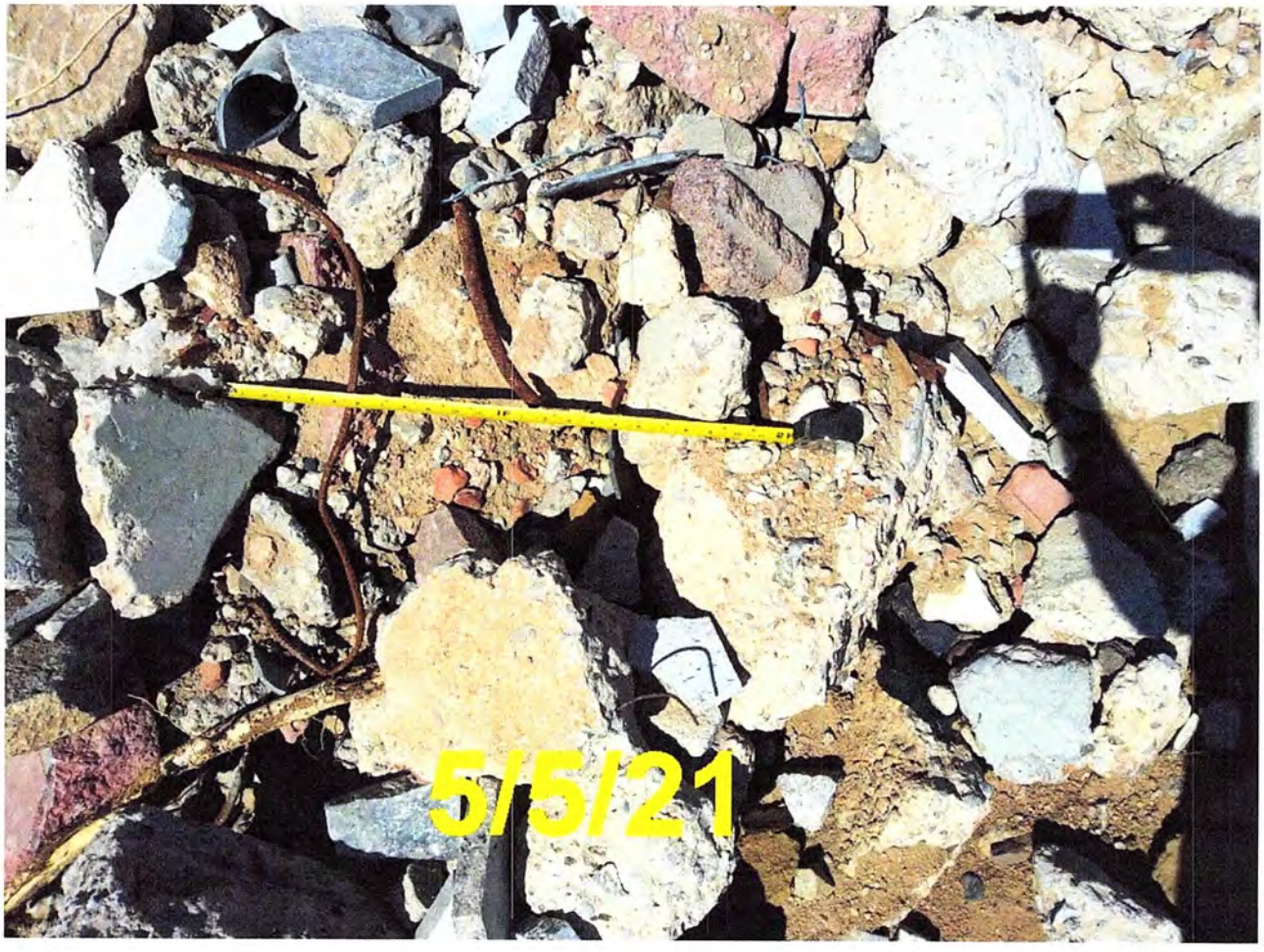
Don Briggs PE
Cc: John Jones

5324 Oakledge Ct. NW, Albuquerque, NM 87120 - 505-249-4843 - donbriggsengineering@gmail.com


9/9/2020


10/5/2020


5/5/21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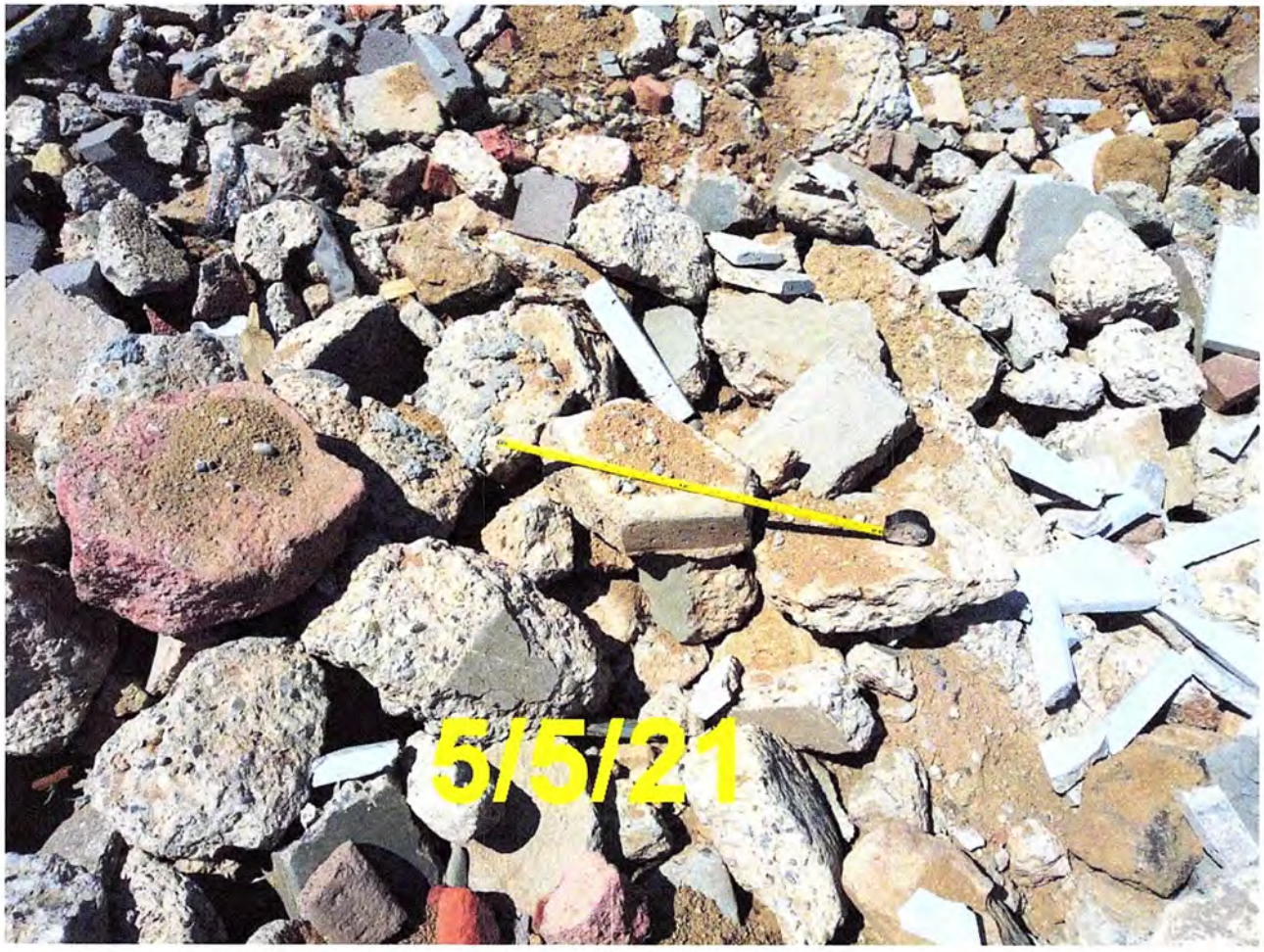
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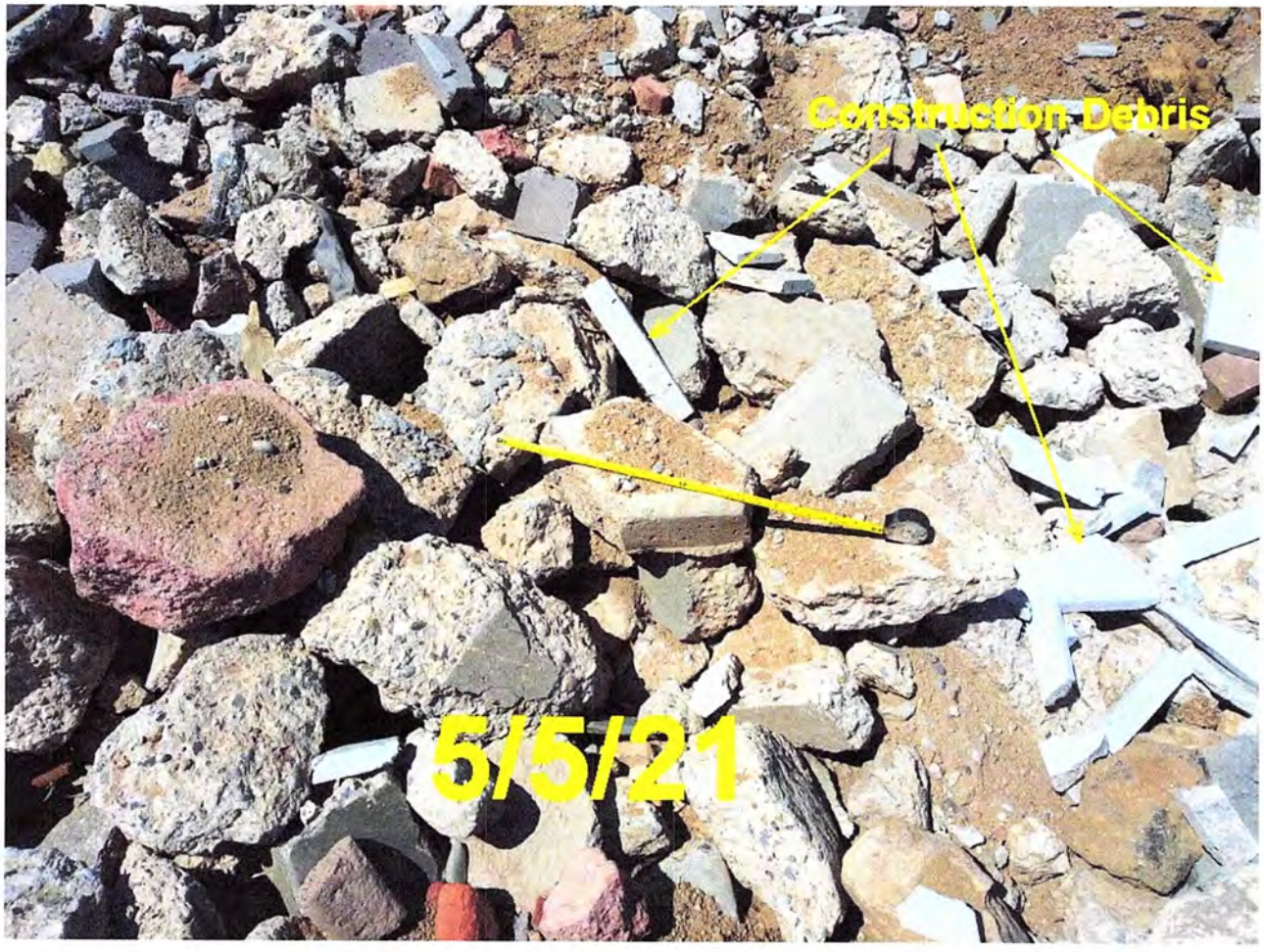

Construction Debris
5/5/21


5/5/21


5/14/21

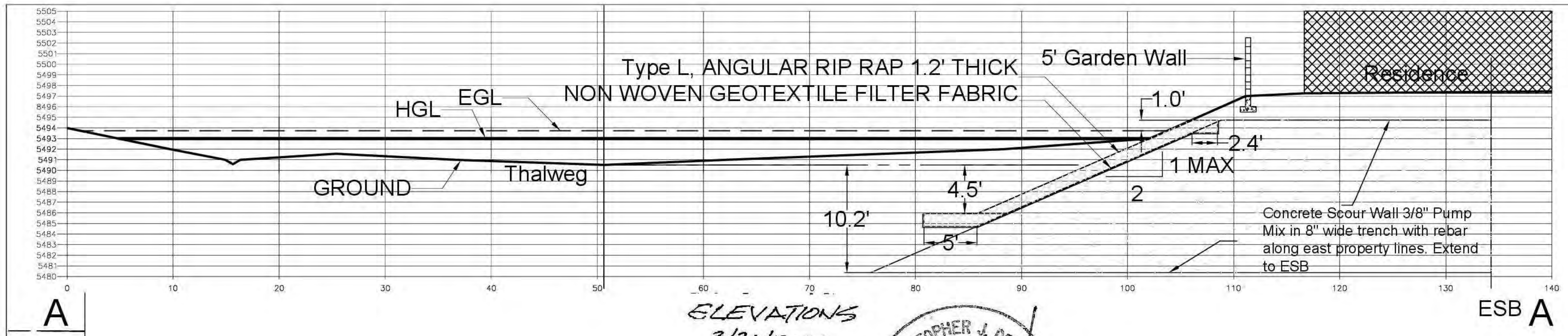

5/14/21

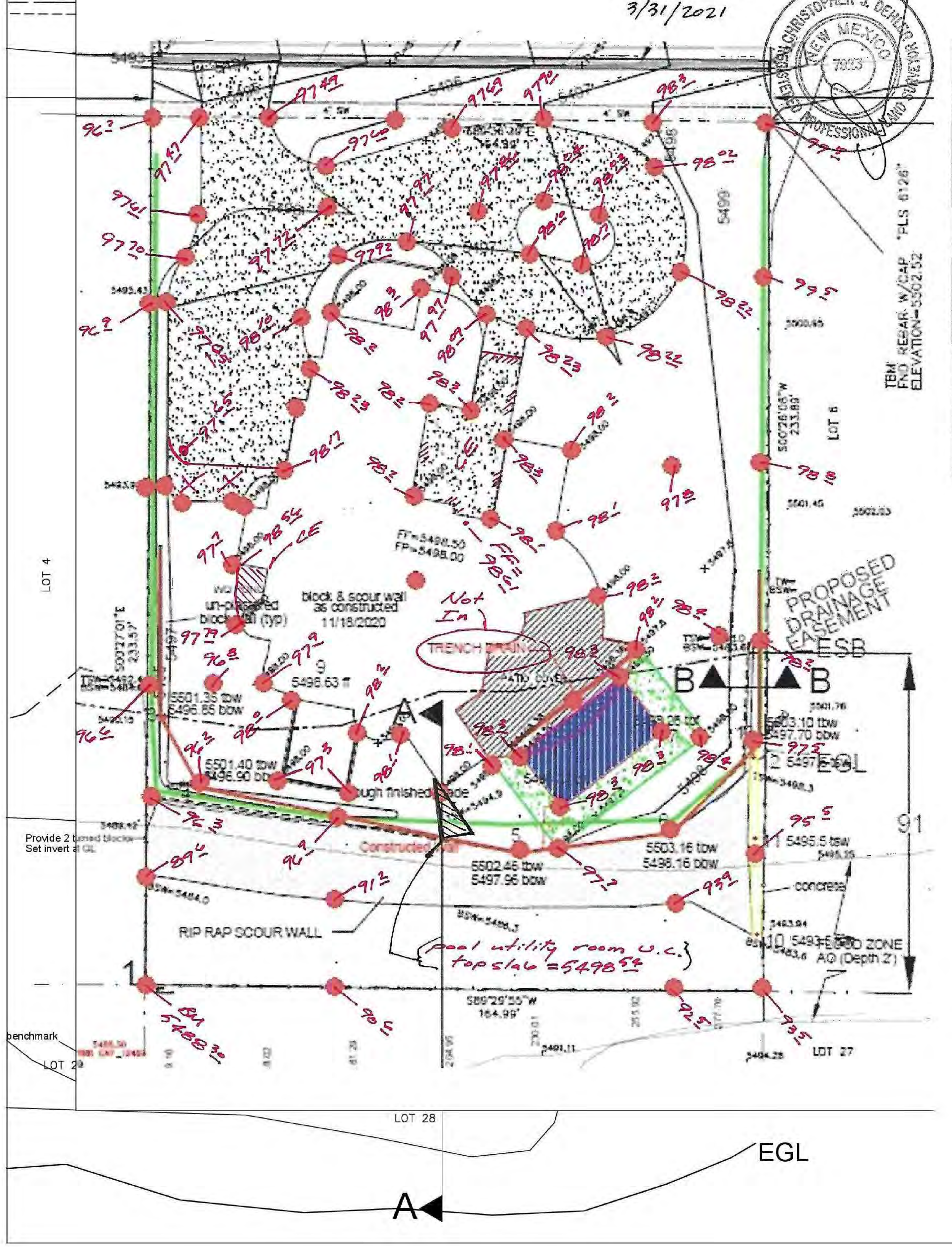

5/14/21


5/14/21

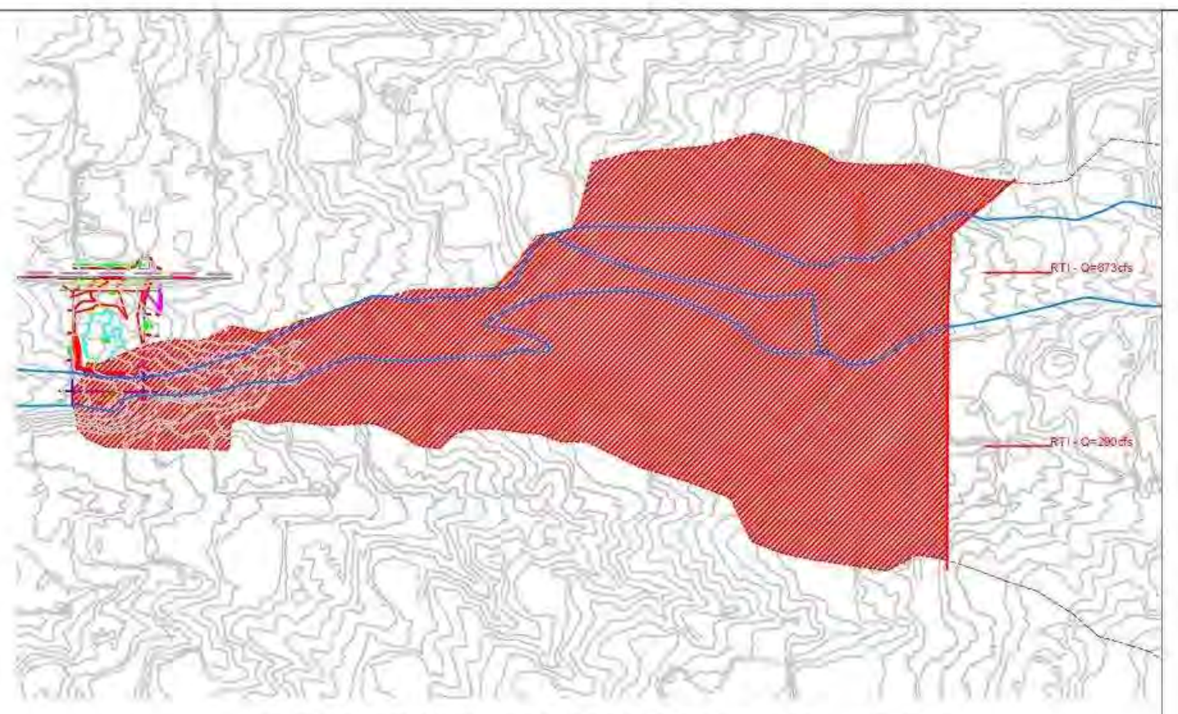

5/14/21


5/14/21





ADDITIONAL OFFSITE BASIN AREA



Hydrology Calculations
8500 Glendale NE

Precipitation Zone 3
100 yr 6 hr Storm
Basin D1 Area = 0.89 ac. 38768.4 sq ft Determined by DB
Historic (Allowable)

Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	Comments
A	20.00%	0.18	0.66	1.87	0.01	0.33	Natural Ground
B	20.00%	0.18	0.92	2.60	0.01	0.46	Landscaped Areas
C	34.00%	0.30	1.29	3.45	0.03	1.04	Compacted earth
D	26.00%	0.23	2.36	5.02	0.05	1.16	Impervious Areas
TOTAL	100.00%	0.89	1.37		0.10	3.00	
					4420.24	cu ft	

Proposed 0.89 ac. 38768.4 sq ft Determined by DB

Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	Comments
A	10.00%	0.09	0.66	1.87	0.00	0.17	Natural Ground
B	36.00%	0.32	0.92	2.60	0.02	0.83	Landscaped Areas
C	30.00%	0.27	1.29	3.45	0.03	0.92	Compacted earth
D	24.00%	0.21	2.36	5.02	0.04	1.07	Impervious Areas
TOTAL	100.00%	0.89	1.35		0.10	2.99	
					4363.38	cu ft	

Water Quality Retention Volume = 0.42" x 9304.416 sq ft 325.65 cu ft.

	% Change	-1%	0%
DIFFERENCE		Runoff Volume (ac. ft.)	Peak Discharge (cfs)
		0.00	-0.01
		-57	(cu. ft.)

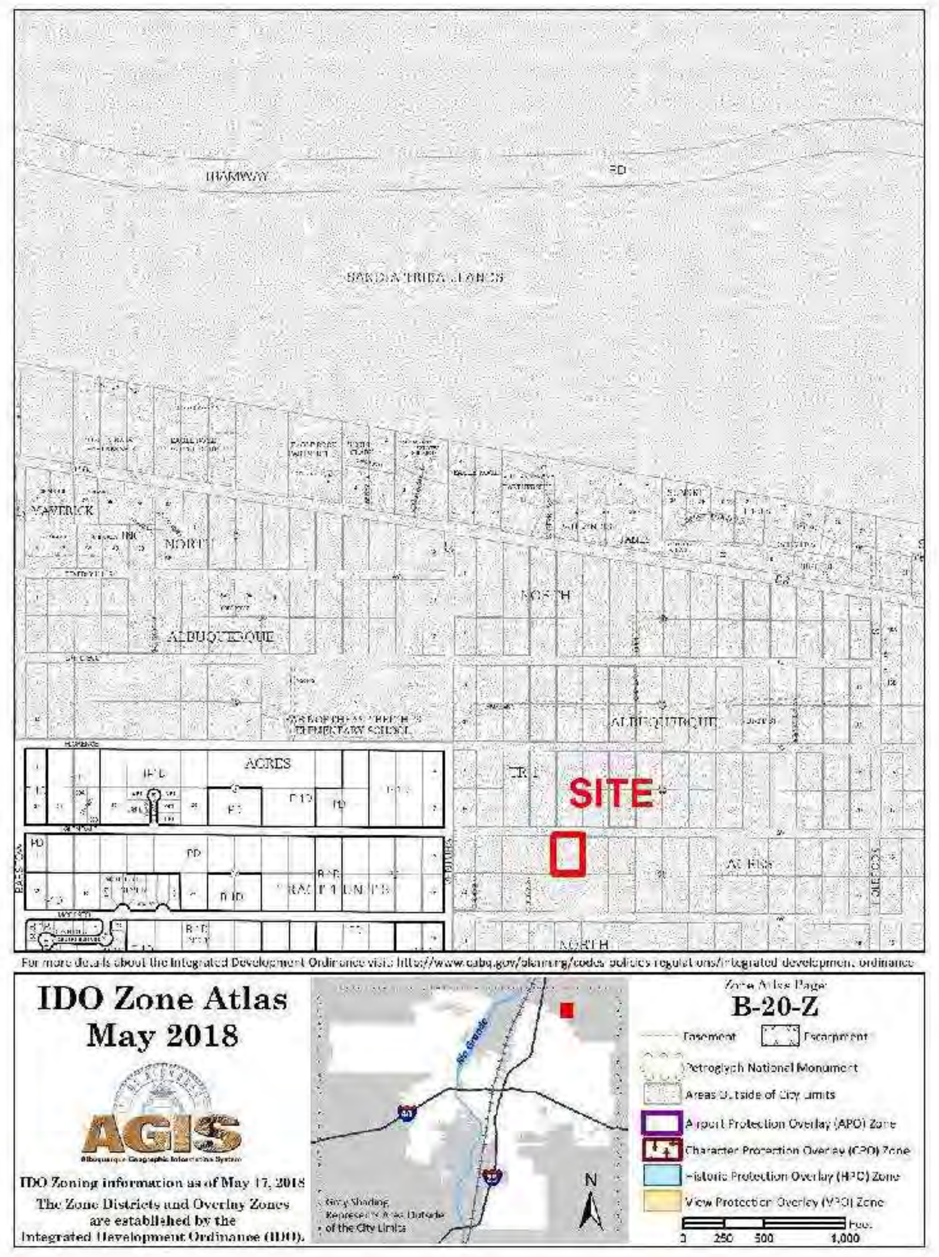
Pond only Water Quality Volume

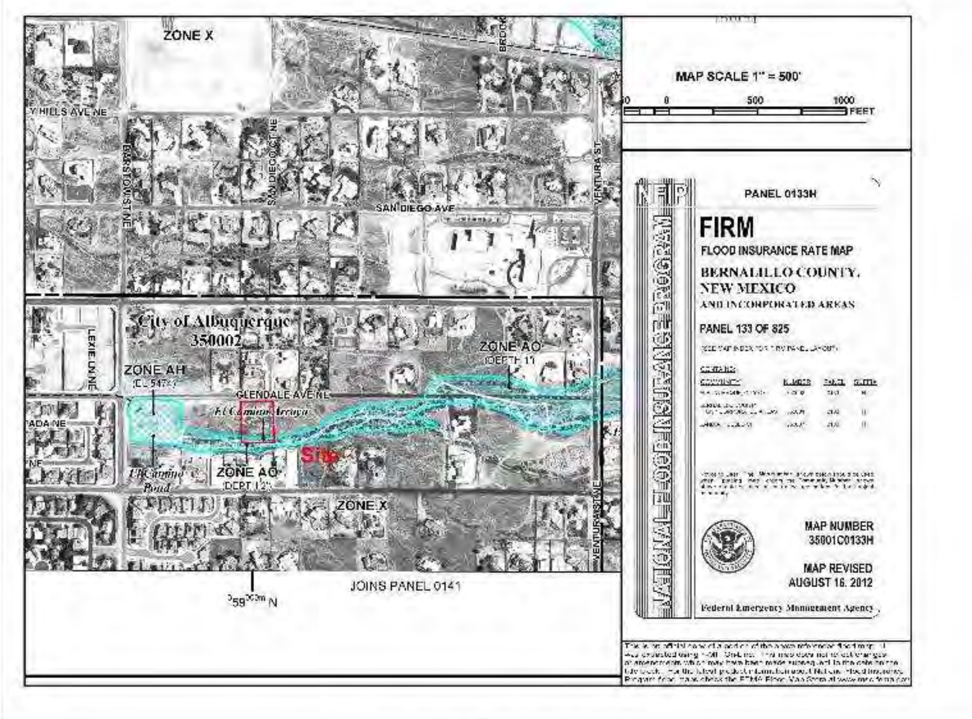
Hydrology Calculations
Additional Offsite Watershed Assuming Full Development

Precipitation Zone 3
100 yr 6 hr Storm
Offsite Basin 24.6124 ac. 1072117.1 sq ft Determined by DB
Historic (Allowable)

Land Treatment	Percent	Area (ac.)	Excess Precipitation (in.)	Unit Peak Discharge (cfs/ac.)	Runoff Volume (ac. Ft.)	Peak Discharge (cfs)	Comments
A	20.00%	4.92	0.66	1.87	0.27	9.21	Natural Ground
B	20.00%	4.92	0.92	2.60	0.38	12.80	Landscaped Areas
C	34.00%	8.37	1.29	3.45	0.90	28.87	Compacted earth
D	26.00%	6.40	2.36	5.02	1.26	32.12	Impervious Areas
TOTAL	100.00%	24.61	1.37		2.81	83.00	

RTI Flows at Ventura (Camino Arroyo) 290
673
Total 1046.00





DRAINAGE CERTIFICATION

I, Don Briggs, NMPE 14912, OF THE FIRM Don Briggs Engineering LLC , 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 12/4/2020. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Chris Dehler , NMPS 7923, OF THE FIRM Dehler Surveying LLC.

I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 10/5/2020 and 3/31/2021 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 CERTIFICATE OF OCCUPANCY.

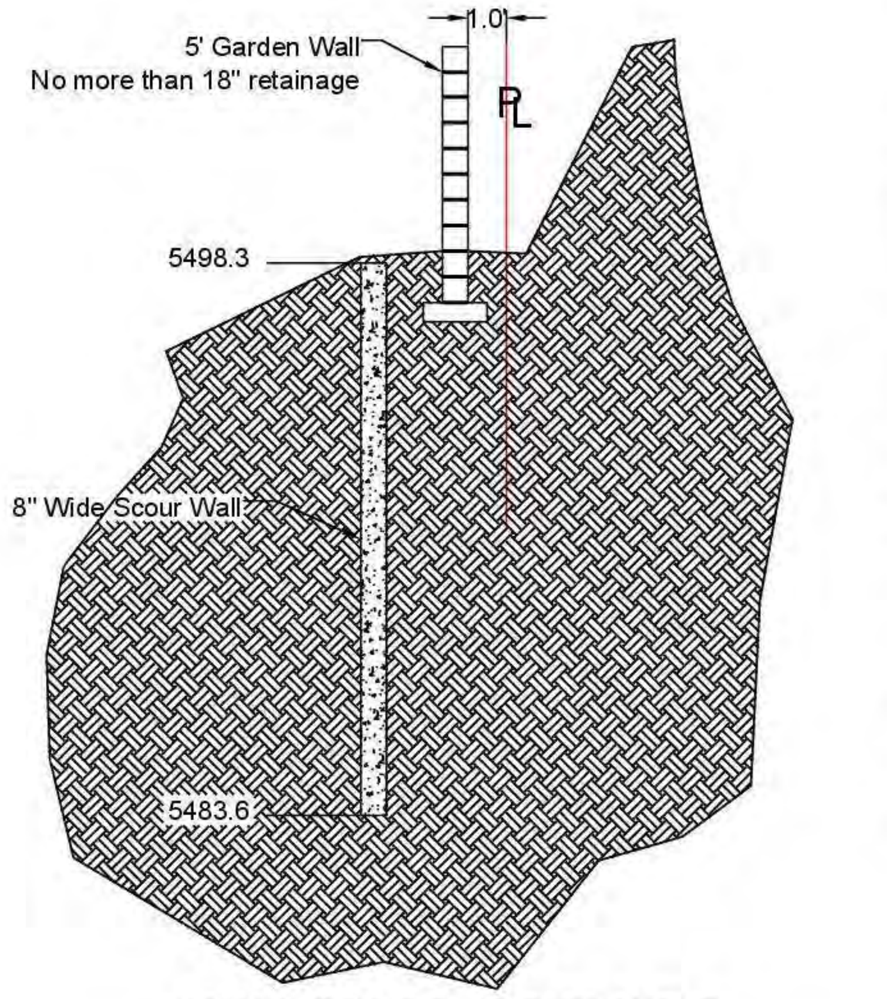
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND IS INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER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

NOTE: Scour wall requires periodic
Owner inspection and maintenance.
Please see Covenant for more information

DONALD R. BRIGGS — NEW MEXICO — 14912 — REGISTERED PROFESSIONAL ENGINEER

LEGEND
Existing Contour
Basin Boundary
New Channel Centerline
Ponding Areas
Design Contour
New 5' CMU Garden Wall no more than 24" retainage
Existing Ground Spot Elevation
5498.00 Design Spot Elevation

SCALE 1" = 20'



WALL CROSS SECTION B-B

DRAINAGE NARRATIVE

This grading & drainage plan was prepared to support a building permit application for a new residence located at 8500 Glendale NE (Lot 5, Block 17, Tract 1, Unit 3, NAA) in North Albuquerque Acres. The plan was prepared using allowable discharge rates based on land treatment percentages of A=20%, B=20%. C=34%, and D=26% and the hydrology methodology presented in Chapter 22.2 of the City of Albuquerque's Development Process Manual (abbreviated method).

The site is a 0.89 acre parcel located in Precipitation Zone 3. The site is impacted by the Camino Arroyo with an estimated flow rate of 1046cfs (RTI Flows @ Ventura + additional developed basin flow) at the property. The property is partially located in FEMA Flood Zone AO (Depth 2') as shown on panel 35001C0133H. Sewer and water service is available from ABCWUA.

Stormwater impacts and mitigation requirements are determined by comparing runoff from the proposed developed conditions to the NAA allowable conditions (see Site Hydrology on this plan). Mitigation measures are designed to reduce developed runoff to at or below the NAA allowable.

This analysis indicates that the site developed runoff will not exceed the allowable runoff in a 100yr. 6hr. rainfall event so ponding is not required.

The offsite Camino Arroyo flow is passed through the property in its natural channel location. A hydraulic analysis of the Camino Arroyo was performed using the US Army's HEC RAS software to determine the Hydraulic Grade Line, Energy Grade Line and flow velocity. The results of the analysis indicated the developed lot will have a minimum 2' freeboard above the water surface and a 1' freeboard above the Energy Grade Line at the South East corner. A Drainage Easement that encompasses the Energy Grade Line is proposed. The HEC RAS analysis is presented on Sheet 2 of 2.

Due to the proximity of the home to the Camino Arroyo a scour analysis is required. Scour calculations were performed using the equations presented in AMAFCA's Sediment and Erosion Design Guide. The Erosion Setback is calculated at 98' and the parallel scour depth at 4.5' (3.5' + 1' Safety Factor) and 10.2' (9.2' + 1') for the perpendicular scour depth.. As the home will be located within the Erosion Setback a scour wall is required for this development. The scour wall design is presented on this plan.

Construction of public infrastructure is required with this development. This infrastructure is shown on Sheet 3 of 3 and will be completed through the Development Review Board process.

GENERAL NOTES

Contractor is responsible for utility spots and controlling sediment deposition and erosion during construction.

A concrete washout bin must be provided as per Bernalillo County MS4 Permit requirements.

All disturbed area due to construction must be reseeded or landscaped following construction.

SCOUR CALCULATIONS (SEDG)
CROSS SECTION 204.95

Q100 =	1033 cfs
SLOPE	0.01587 ft/ft
THALWEG ELEVATION	5490.8 ft
HGL DEPTH = D100	2.28 ft
HGL ELEVATION	5493.08 ft
EGL ELEVATION	5493.84 ft
AREA =	147.73 sq ft
VELOCITY =	6.99 fps
VELOCITY HEAD =	0.76 ft
FROUDE#	1.01

LATERAL EROSION (Erosion Setback)
Qd = 0.2(Q100) 206.6 cfs (Dominant Discharge)
ESB=(0.92+4.6*log(Qd)Qd^0.4 = 98 ft (EQ 3.81b)

VERTICAL EROSION (Scour Depth)
PARALLEL
Vs = Hv+(.73+(.14*3.14159*Fr^2)D100 = 3.45 ft (EQ 3.89)
SAFETY FACTOR 1.00 ft
REQUIRED SCOUR DEPTH 4.45 ft

PERPINDICULAR (Θ = 90)
Vs = ((.73+(.14*3.14159*Fr^2)COS(Θ) +(4*Fr^0.33)SIN(Θ))D100 9.15 ft (EQ 3.90)

REQUIRED SCOUR DEPTH ELEVATION = 5486.35

TOP OF SCOUR WALL = EGL +1' = 5494.84

SCOUR WALL ROCK SIZING (Denver Urban Drainage Design Manual)
MINIMUM d50= 0.59 ft V(S)^.17/5.88 2:1 SS Max.
N for Riprap 0.036 N=0.0395(D50^1/6)
Riprap Layer Thickness 1.2 ft 2(d50)

SCOUR WALL CALCULATIONS

Scour Depth 4.5

X Section	Thalweg	Btm SW	EGL	Top SW
129.16	5488.5	5484.0	5491.42	5492.42
158.02	5489.3	5484.8	5492.29	5493.29
181.29	5489.9	5485.4	5493.15	5494.15
204.95	5490.8	5486.3	5493.86	5494.86
230.01	5491.4	5486.9	5494.76	5495.76
255.92	5492.8	5488.3	5496.01	5497.01
277.76	5493.5	5489.0	5496.97	5497.97

AS BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
RECORDING INFORMATION	
RECORDED BY	DATE
NO.	

BENCHMARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DONALD R. BRIGGS — NEW MEXICO — 14912 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	5/28/2019	Address Comments	DB
2	10/16/2020	Add Pool	DB

REVISIONS

DESIGN

DESIGNED BY	DB	DATE 4/25/2019
DRAWN BY	DB	DATE 4/25/2019
CHECKED BY		DATE

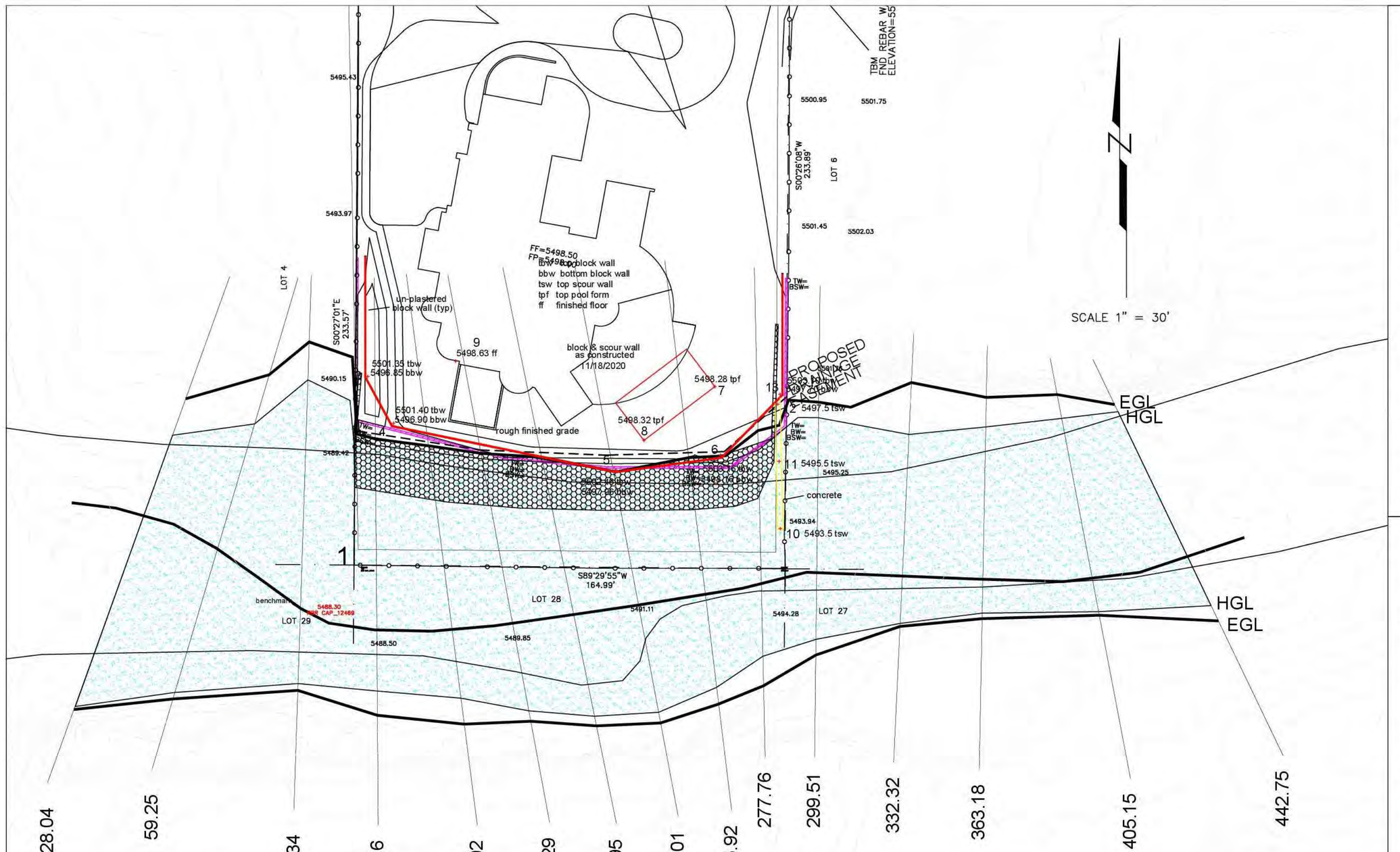
DON BRIGGS
Engineering LLC
505-249-4843
donbriggsengineering@gmail.com
5324 Oakledge Ct. NW, Albuquerque, NM 87120

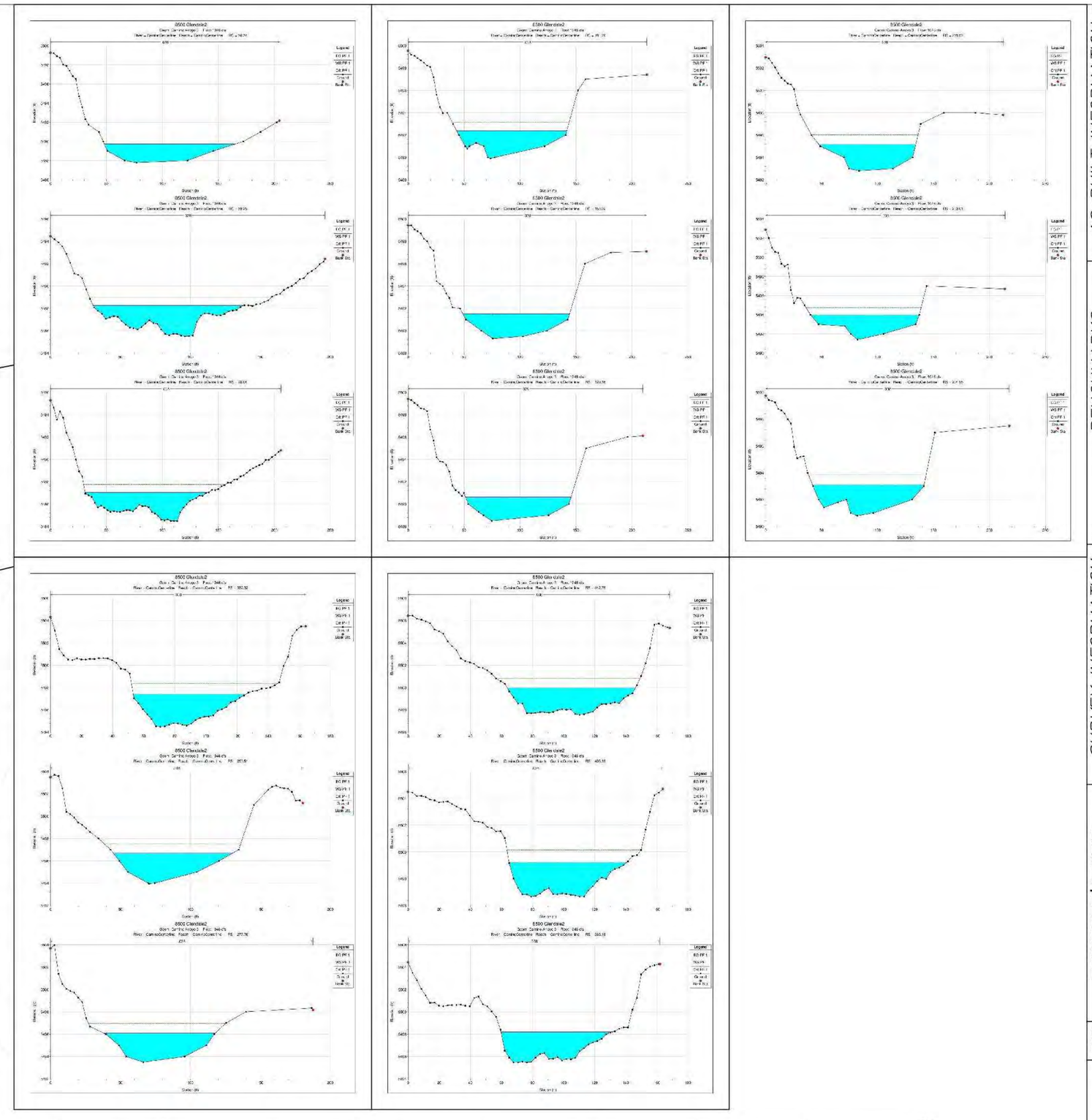
TITLE:
8500 Glendale
Grading & Drainage Plan

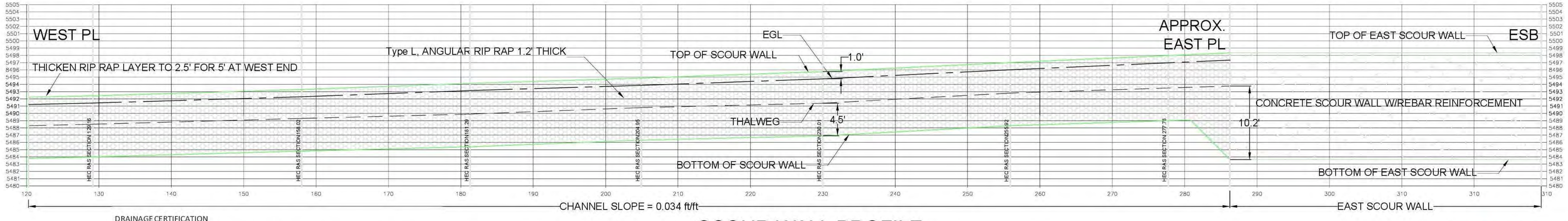
Design Review Committee	City Engineer Approval	Mo. / Day / Yr.	Mo. / Day / Yr.

Last Design Update

City Project No. B20D067 | Zone Map No. | Sheet 1 | Of 3







SCOUR WALL PROFILE

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14912
REGISTERED PROFESSIONAL ENGINEER
5/28/19

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Scour Depth 4.5

X Section	Thalweg	Btm SW	EGL	Top SW
129.16	5488.5	5484.0	5491.42	5492.42
158.02	5489.3	5484.8	5492.29	5493.29
181.29	5489.9	5485.4	5493.15	5494.15
204.95	5490.8	5486.3	5493.86	5494.86
230.01	5491.4	5486.9	5494.76	5495.76
255.92	5492.8	5488.3	5496.01	5497.01
277.76	5493.5	5489.0	5496.97	5497.97

HEC-RAS Plan: Adj Geometry River: CaminoCenterline Reach: CaminoCenterline Profile: PF 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
CaminoCenterline	28.04	PF 1	1033.00	5484.48	5487.04	5487.04	5487.75	0.019386	6.75	153.00	110.35	1.01
CaminoCenterline	59.25	PF 1	1033.00	5485.50	5488.25	5489.25	5488.95	0.018911	6.71	154.05	109.99	1.00
CaminoCenterline	98.34	PF 1	1033.00	5487.80	5489.71	5489.71	5490.39	0.019507	6.63	155.83	116.37	1.01
CaminoCenterline	129.16	PF 1	1033.00	5488.50	5490.82	5490.82	5491.46	0.018567	7.11	145.37	94.13	1.01
CaminoCenterline	158.02	PF 1	1033.00	5489.30	5491.50	5491.50	5492.27	0.018594	7.08	145.87	95.09	1.01
CaminoCenterline	181.29	PF 1	1033.00	5489.90	5492.36	5492.36	5493.13	0.019007	7.03	146.90	98.26	1.01
CaminoCenterline	204.95	PF 1	1033.00	5490.80	5493.08	5493.08	5493.84	0.018956	6.99	147.73	99.45	1.01
CaminoCenterline	230.01	PF 1	1033.00	5491.40	5493.97	5493.97	5494.74	0.018708	7.04	146.75	96.87	1.01
CaminoCenterline	255.92	PF 1	1033.00	5492.80	5495.17	5495.17	5495.98	0.018236	7.30	141.51	86.65	1.01
CaminoCenterline	277.76	PF 1	1033.00	5493.50	5496.06	5496.06	5496.94	0.017854	7.53	137.16	78.97	1.01
CaminoCenterline	299.51	PF 1	1033.00	5493.95	5496.68	5496.68	5497.52	0.018289	7.37	140.17	84.96	1.01
CaminoCenterline	332.32	PF 1	1033.00	5494.49	5497.40	5497.40	5498.33	0.017422	7.73	133.68	72.47	1.00
CaminoCenterline	363.18	PF 1	1033.00	5495.47	5498.19	5498.19	5499.13	0.017535	7.78	132.83	71.30	1.00
CaminoCenterline	405.15	PF 1	1033.00	5496.67	5499.20	5499.20	5500.12	0.017877	7.66	134.83	75.42	1.01
CaminoCenterline	442.75	PF 1	1033.00	5497.57	5499.96	5499.96	5500.82	0.018007	7.42	139.25	82.37	1.01

AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
INSPECTORS ACCEPTANCE BY DATE
VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
RECORDING INFORMATION
RECORDED BY DATE
NO.

BENCHMARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DONALD R. BRIGGS NEW MEXICO 14912 REGISTERED PROFESSIONAL ENGINEER 5/28/19

NO.	DATE	REMARKS	BY
1	5/28/2019	Address Comments	DB

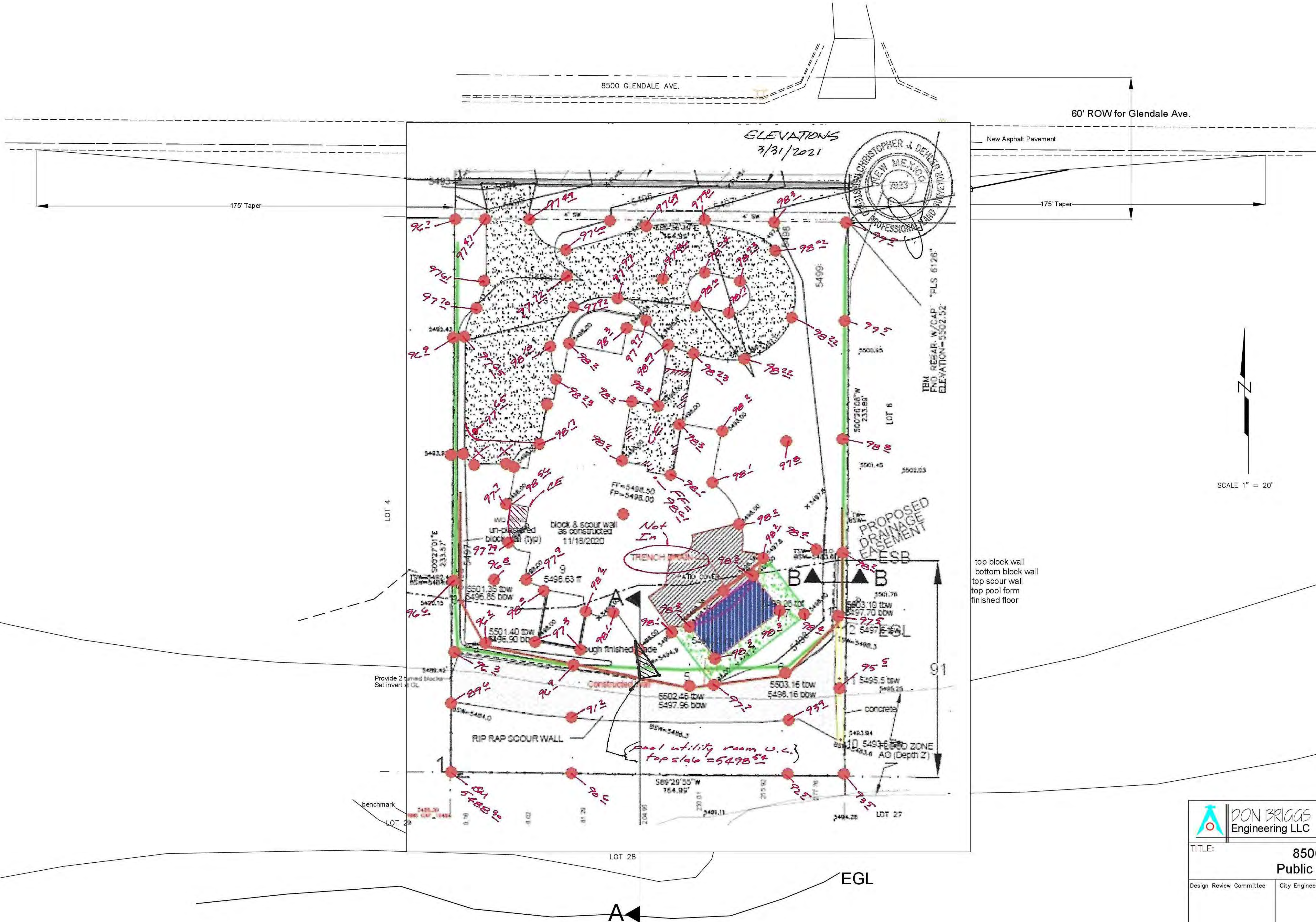
REVISIONS
DESIGN
DESIGNED BY DB DATE 4/25/2019
DRAWN BY DB DATE 4/25/2019
CHECKED BY DATE

DON BRIGGS Engineering LLC
505-249-4843
donbriggsengineering@gmail.com
5324 Oakledge Ct. NW, Albuquerque, NM 87120

TITLE: 8500 Glendale
HEC RAS Analysis

Design Review Committee	City Engineer Approval	Last Design Update	Mo. / Day / Yr.	Mo. / Day / Yr.

City Project No. B20D067 | Zone Map No. | Sheet 2 Of 3



AS BUILT INFORMATION	
CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
RECORDING INFORMATION	
RECORDED BY	DATE
NO.	

BENCHMARKS

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

REVISIONS		
DESIGN		
DESIGNED BY	DB	DATE 5/28/2019
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CHECKED BY		DATE

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TITLE: 8500 Glendale Public Infrastructure

Design Review Committee	City Engineer Approval	Mo. / Day / Yr.	Mo. / Day / Yr.
		Last Design Update	

City Project No.	Zone Map No.	Sheet	Of
B20D067		3	3

PUBLIC INFRASTRUCTURE NOT CONSTRUCTED