

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

April 7, 2022

Ronald R. Bohannon, P.E.
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

RE: Saranam Golf Course & Montano
4701 Montano Rd NW
Grading and Drainage Plan
Engineer's Stamp Date: 2/15/2022
Hydrology File: E11D013B

Dear Mr. Bohannon:

Based upon the information provided in your submittal received 2/16/2022, the Grading & Drainage Plan **is not** approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

PO Box 1293

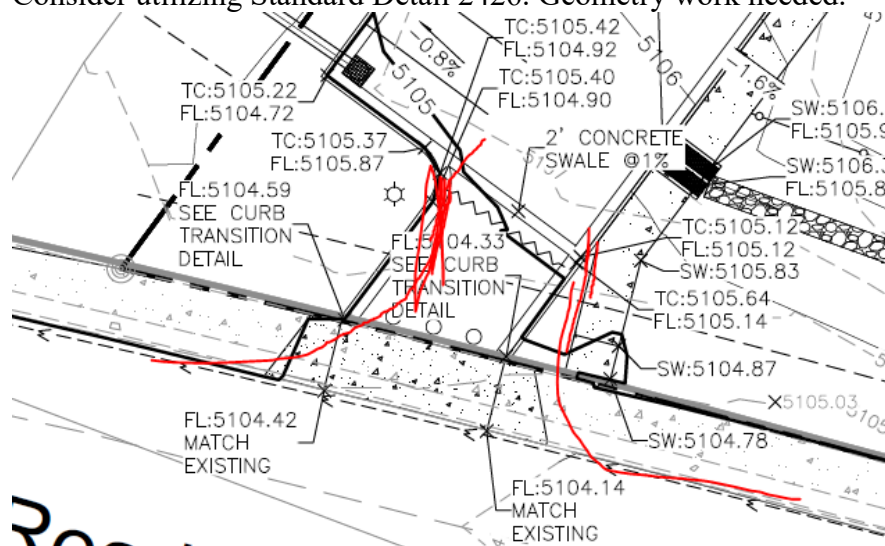
General Comments

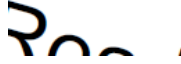
Albuquerque

NM 87103

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1. Will this entrance work? Have you gotten comments from Traffic Section?
 - a. Consider utilizing Standard Detail 2426. Geometry work needed.



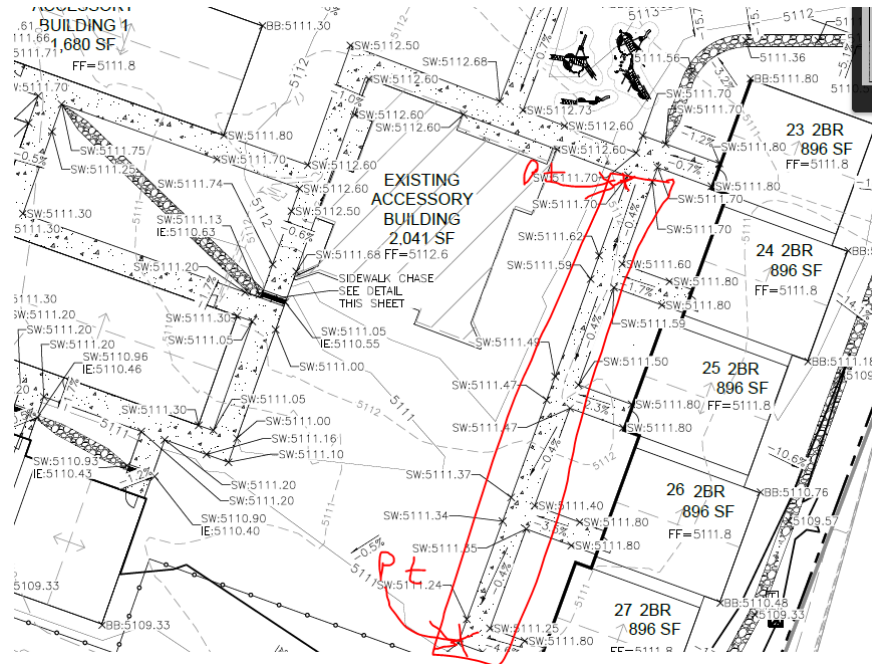
- b. 
- 2.
3. Practically, during construction so many points are not needed and it makes the plans very hard to review.

CITY OF ALBUQUERQUE

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Alan Varela, Interim Director



Mayor Timothy M. Keller



- a.
4. The drafting is very difficult to wrap my head around as much information is on here and makes the plans difficult to review. Please review drafting standards for company if possible. I feel line weights and work with drafting would help make the plans apparent.
- a. What I really would like to know is how water is conveying (e.g. low/High points and grade changes, flow lines. Spots for construction where it makes sense. Contours show the big idea where points will show the small details only when needed)
- b. For example, this section below, I cannot tell what proposed vs. existing contours are without straining my eyes.

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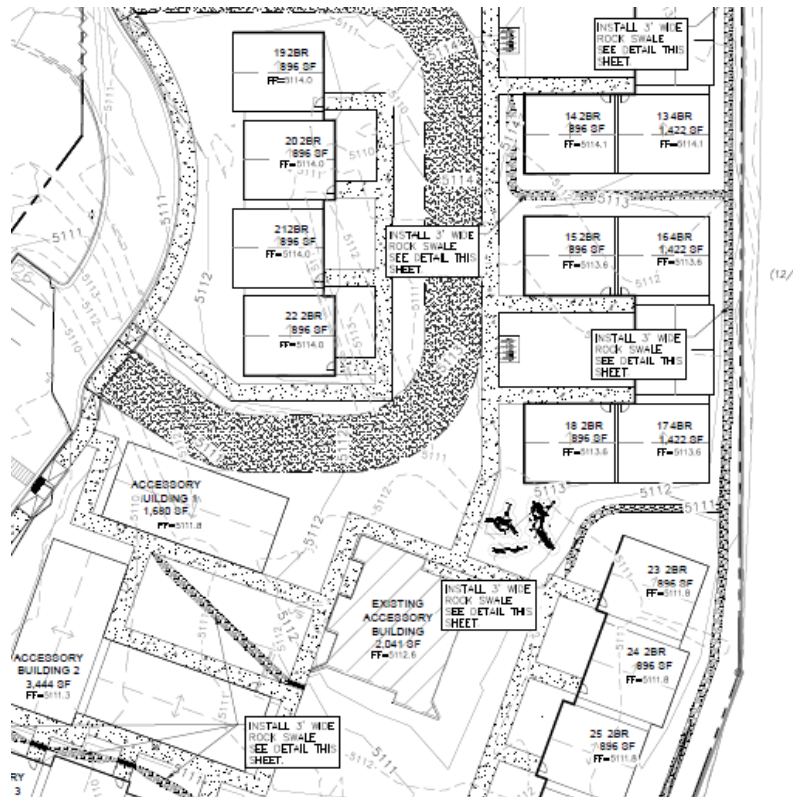
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CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller



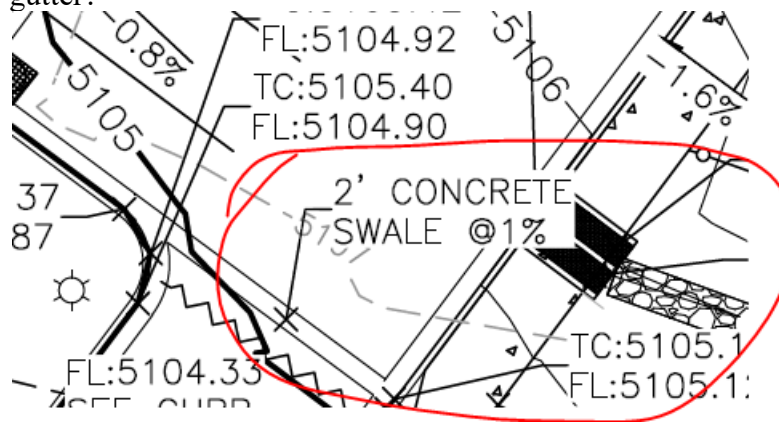
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- i.
5. Valley gutter?



a.

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

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

Sincerely,



David G. Gutierrez, P.E.
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

NM 87103

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City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Saranam Golf Course & Montano **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** PR-2020-003461 **Work Order#:** _____

Legal Description: TR 27A-2 TAYLOR RANCH REDIV OF TR 27-A INTO TRS 27A-1 27A-2 OF THE PLAT OF TRAS27-A, S-1, S-2 & S-3 TAYLOR RANCH SITUATE WITHIN SECTIONS 23, 25 & 26

City Address: 4701 Montano Rd NW

Applicant: Tierra West, LLC **Contact:** LUIS NORIEGA

Address: 5571 MIDWAY PARK PLACE NE, ALBUQUERQUE, NM 87109

Phone#: 505-858-3100 **Fax#:** _____ **E-mail:** LNORIEGA@TIERRAWESTLLC.COM

Other Contact: Saranam **Contact:** Tracy Weaver

Address: 1028 Eubank NE Suite F, Albuquerque, NM 87112

Phone#: _____ **Fax#:** _____ **E-mail:** tweaver@saranamabq.org

TYPE OF DEVELOPMENT: _____ PLAT (# of lots) _____ RESIDENCE ☒ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL? ☒ Yes _____ No

DEPARTMENT _____ TRANSPORTATION ☒ HYDROLOGY/DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

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

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- ☒ BUILDING PERMIT APPROVAL
- ☐ 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: 02.16.22 **By:** LUIS NORIEGA

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

February 7, 2022

Ronald R. Bohannon, P.E.
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

**RE: Saranam Golf Course & Montano
4701 Montano Rd NW
Grading and Drainage Plan
Engineer's Stamp Date: 1/4/2022
Hydrology File: E11D013B**

Dear Mr. Bohannon:

Based upon the information provided in your submittal received 1/4/2022, the Grading & Drainage Plan is **not** approved for Building Permit. The following comments need to be addressed for approval of the above referenced project:

PO Box 1293

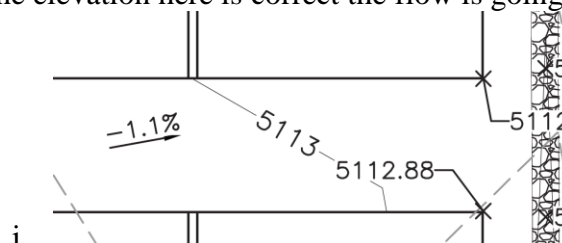
Albuquerque

NM 87103

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General Comments

1. The Basin Map does not appear to reflect the same buildings as the G&D Sheets.
 - a. Additionally, it appears flow is directly differently.
 - b. Ensure cross lot drainage is established (easement) if that is the plan and show how this will be routed to the proper location overall. We need to know where the water ends up ultimately.
2. Please utilize new DPM revision Chapter 6.
3. It appears the overall flow should end up in the lake and should be retained if possible. Please provide retention calculations (100-year storm event for 10 days) and show how this volume will be contained on-site.
4. Check FF vs corner spot elevations. They do not match.
5. Call out all pipes and materials.
 - a. Show invert elevations.
6. Swales
 - a. Provide elevations to show how they flow.
 - b. Provide section and reference to each one.
7. Overall the site needs to have a close review to ensure all of the shown elevations work.
 - a. If the elevation here is correct the flow is going right into the building?



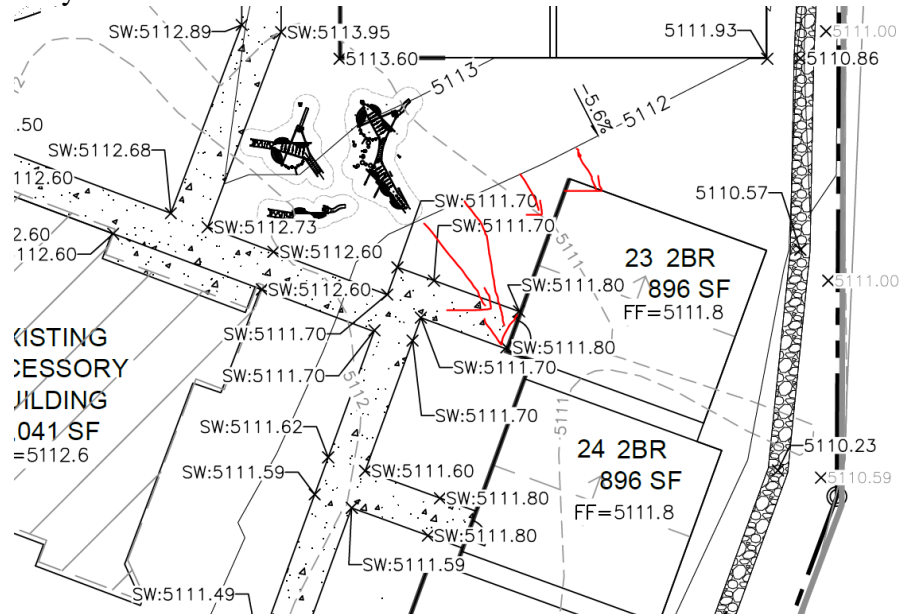
CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

8. Please reference DPM Chapter 6.
9. Please take a second look at everything. See below, it appears flow may go directly into the doorways here.



a.

10. Include project benchmark and datum.
11. The site must show cross lot drainage easement and ensure flow is being properly conveyed per the easements. Also ensure the pond can handle the additional retention volume for the site and show existing and proposed volumes for the entire volume the pond is collecting. Show all of this information on this G&D.

SHEET C2.1

1. Please double check the calculations for the tables provided. I checked a couple and did not come up with the same.
2. Please include the required volume for retention. (100-year, 10-day storm)

SHEET C2.3

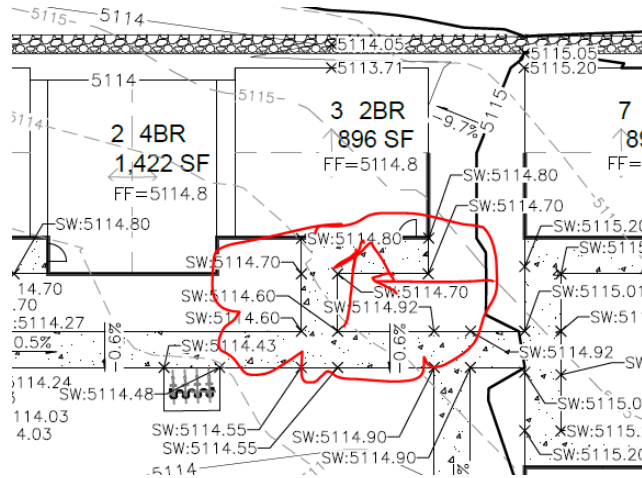
3. Check this area. Appears maybe some ponding and may flow right to the doorway area here.

CITY OF ALBUQUERQUE

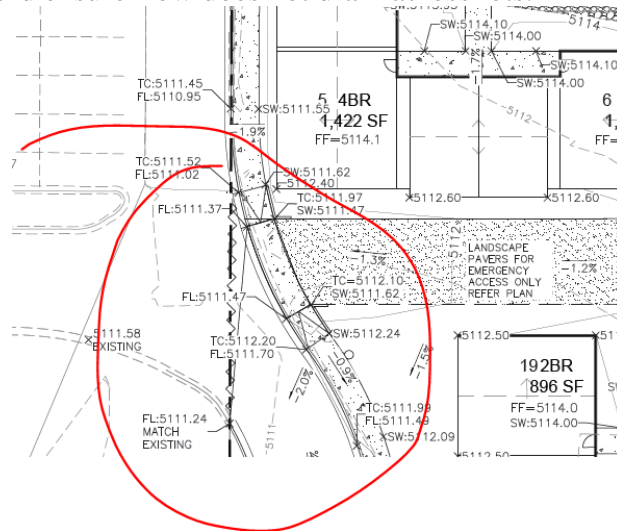
Planning Department
Alan Varela, Interim Director



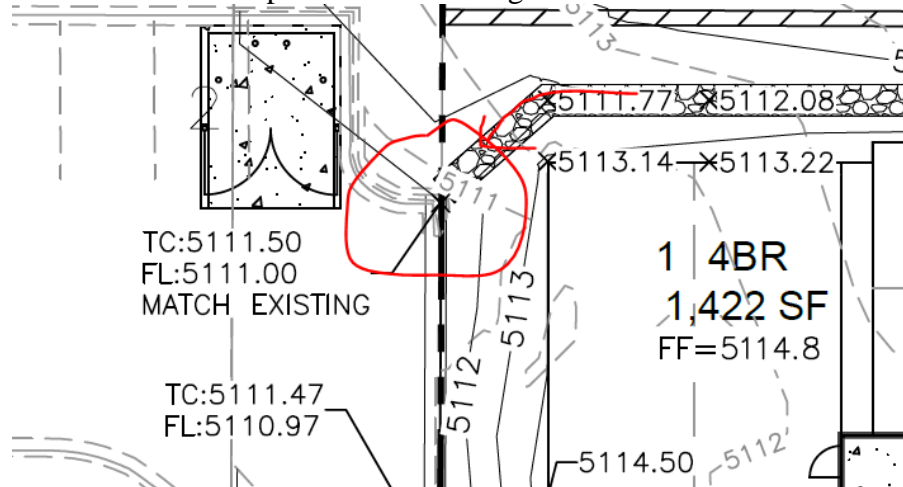
Mayor Timothy M. Keller



- a.
4. Is this a water block? If so, please provide elevations showing how these grades will work and ensure flow does not drain across lots.



- a.
5. Where does this flow end up? Cross lot drainage?



- a.
6. Check all pads. They should be higher than surrounding grade.

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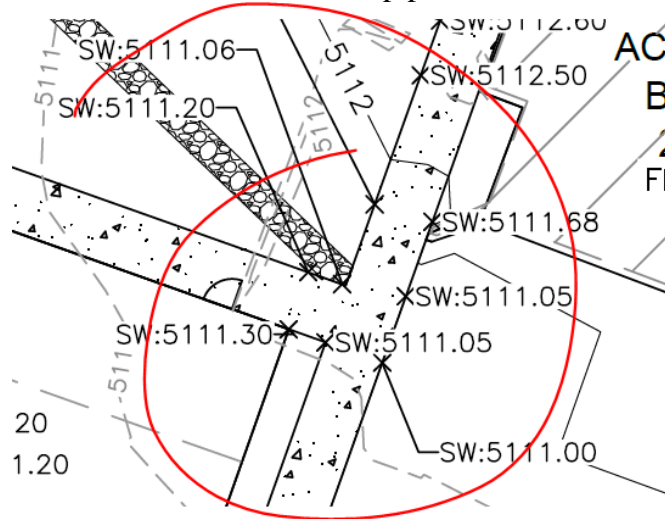
CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Interim Director



Mayor Timothy M. Keller

7. How will this work? Will there be a pipe under sidewalk?



- a.
- b. Please show all of these details. As of now it appears this is just a ponding area.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to any earth disturbance.

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

Sincerely,

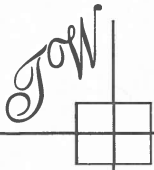
David G. Gutierrez, P.E.
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov



TIERRA WEST, LLC

February 15, 2022

Mr. David Gutierrez, P.E.
City of Albuquerque, Planning Department
PO BOX 1293
Albuquerque, NM 87103

**RE: Saranam Golf Course & Montano
4701 Montano Rd NW
Grading and Drainage Plan**

Dear Mr. Gutierrez,

Per the correspondence dated February 7, 2022, please find the following responses addressing the comments listed below:

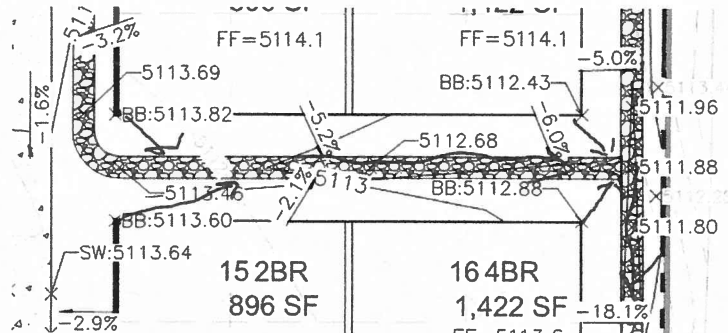
1. The Basin Map does not appear to reflect the same buildings as the G&D Sheets.
 - a. Additionally, it appears flow is directed differently.
 - b. Ensure cross lot drainage is established (easement) if that is the plan and show how this will be routed to the proper location overall. We need to know where the water ends up ultimately.
Response: See updated sheet C2.1, basin maps updated to reflect latest changes to site plan and grading. Tract 27-A-2A (Project site) is to drain to the large retention pond located just west of site via an 18" HDPE pipe located within a 20' drainage easement granted under DOC# 202101455 (attached).
2. Please utilize new DPM revision Chapter 6.
Response: Hydrology calculations updated to new DPM chapter 6 requirements.
3. It appears the overall flow should end up in the lake and should be retained if possible. Please provide retention calculations (100-year storm event for 10 days) and show how this volume will be contained on-site.
Response: See updated sheet C2.1, the proposed 100 yr. - 10 day storm volume was calculated and is the design storm. According to as-builts under hydro file E11_D13A (Attached) the existing retention pond/lake west of the site has enough capacity to retain the proposed design storm volume.
4. Check FF vs corner spot elevations. They do not match.
Response: See typical unit section detail, sheets C2.3 or C2.4. The housing units are to be built on piers and 1.67' steel beams. Therefore the corner spots may be lower than the FF due to the design of the housing units,
5. Check out all pipes and materials.
 - a. Show invert elevations.
Response: Only one pipe proposed on the southwest side of site see sheet C2.2. Pipe material, slope and invert elevations called out.
6. Swales
 - a. Provide elevations to show how they flow.
 - b. Provide section and reference to each one.
Response: Swale section and call outs are shown on sheet C2.2, swale elevations shown on sheets C2.3 and C2.4.

5571 Midway Park Pl. NE
Albuquerque, NM 87109
(505) 858-3100 fax (505) 858-1118
tierrawestllc.com 1-800-245-3102

7. Overall the site needs to have a close review to ensure all of the shown elevations work.

a. If the elevation here is correct the flow is going right into the building?

Response: Site analyzed to ensure shown elevations work, swales added to areas which may be prone to ponding see below.

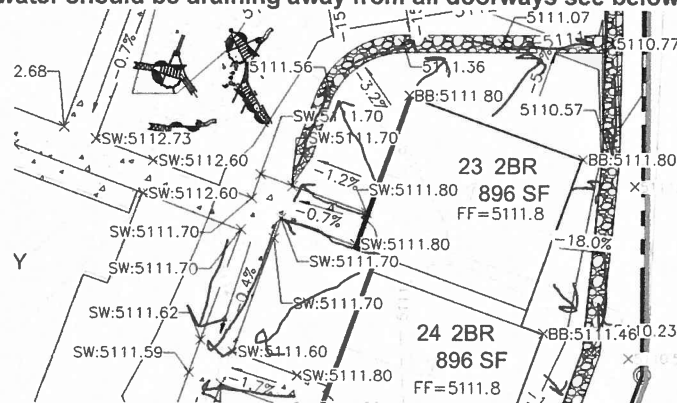


8. Please reference DPM Chapter 6.

Response: Referenced on sheet C2.1.

9. Please take a second look at everything. See below, it appears flow may go directly into the doorways here.

Response: Storm water should be draining away from all doorways see below.



10. Include project benchmark and datum.

Response: See sheets C2.1 or C2.2 for datum.

AGRS MONUMENT "13_E11"
STANDARD C.O.A. ALUMINUM DISC
(FOUND IN PLACE)
NEW MEXICO STATE PLANE COORDINATES
(CENTRAL ZONE-N.A.D. 1983)
N=1,511,150.048 US SURVEY FEET
E=1,507,830.738 US SURVEY FEET
PUBLISHED EL=5109.053 US SURVEY FT (NAD 1988)
GROUND TO GRID FACTOR=0.999879673
DELTA ALPHA ANGLE=-0°15'19.38"

11. The site must show cross lot drainage easement and ensure flow is being properly conveyed per the easements. Also ensure the pond can handle the additional retention volume for the site and show existing and proposed volumes for the entire volume the pond is collecting. Show all of this information on this G&D.

Response: See updated sheet C2.1, pond data. Tract 27-A-2A (Project site) is to drain to the large retention pond located just west of site via an 18" HDPE pipe located within a 20' drainage easement granted under DOC# 202101455 (attached).

Sheet C2.1

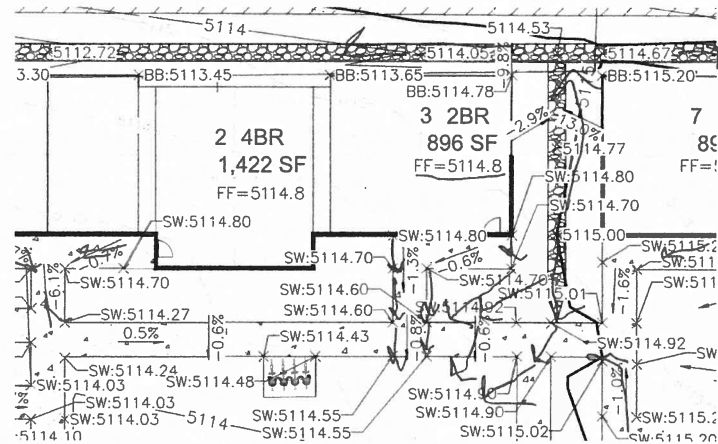
1. Please double check the calculations for the tables provided. I checked a couple and did not come up with the same.

Response: Calculations updated to new DPM chapter 6 requirements.

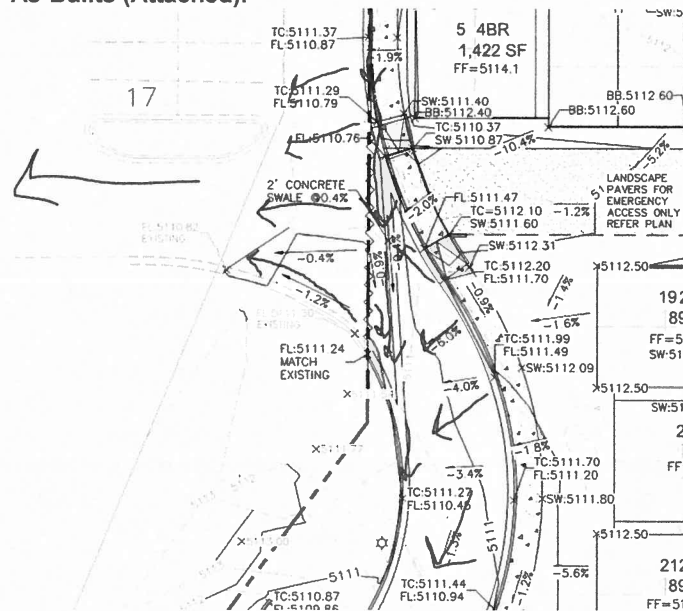
2. Please include the required volume for retention. (100-year, 10-day storm)
Response: Required volume included in sheet C2.1.

Sheet C2.3

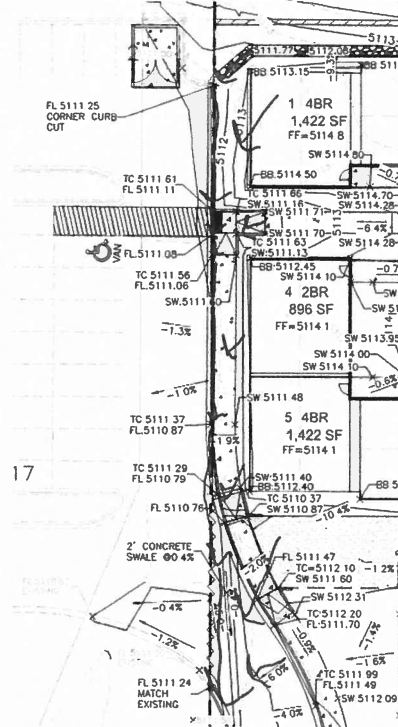
3. Check this area. Appears maybe some ponding and may flow right to the doorway area here.
Response: Storm water should be draining away from all doorways and does not pond see below.



4. Is this a water block? If so, please provide elevations showing how these grades will work and ensure flow does not drain across lots.
Response: Yes there is a water block; flows from the project site are routed south towards the proposed parking area. Flows from the tract to the west flows to the west towards the existing retention pond per As-Built (Attached).



- Response:** Flows from the project site are intersected by the curb and gutter pan running along the property line towards the proposed southern parking area, no cross lot drainage needed.

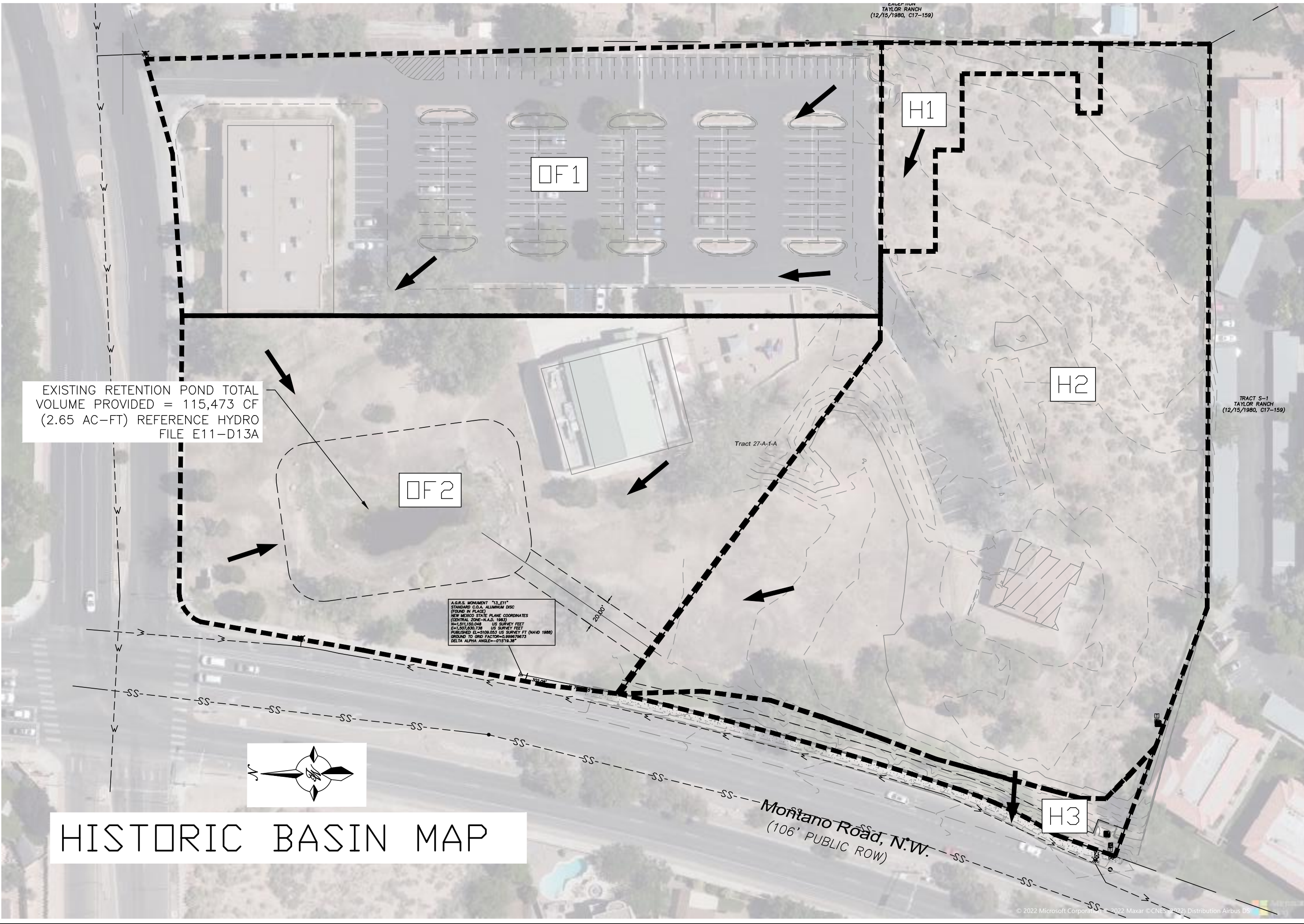
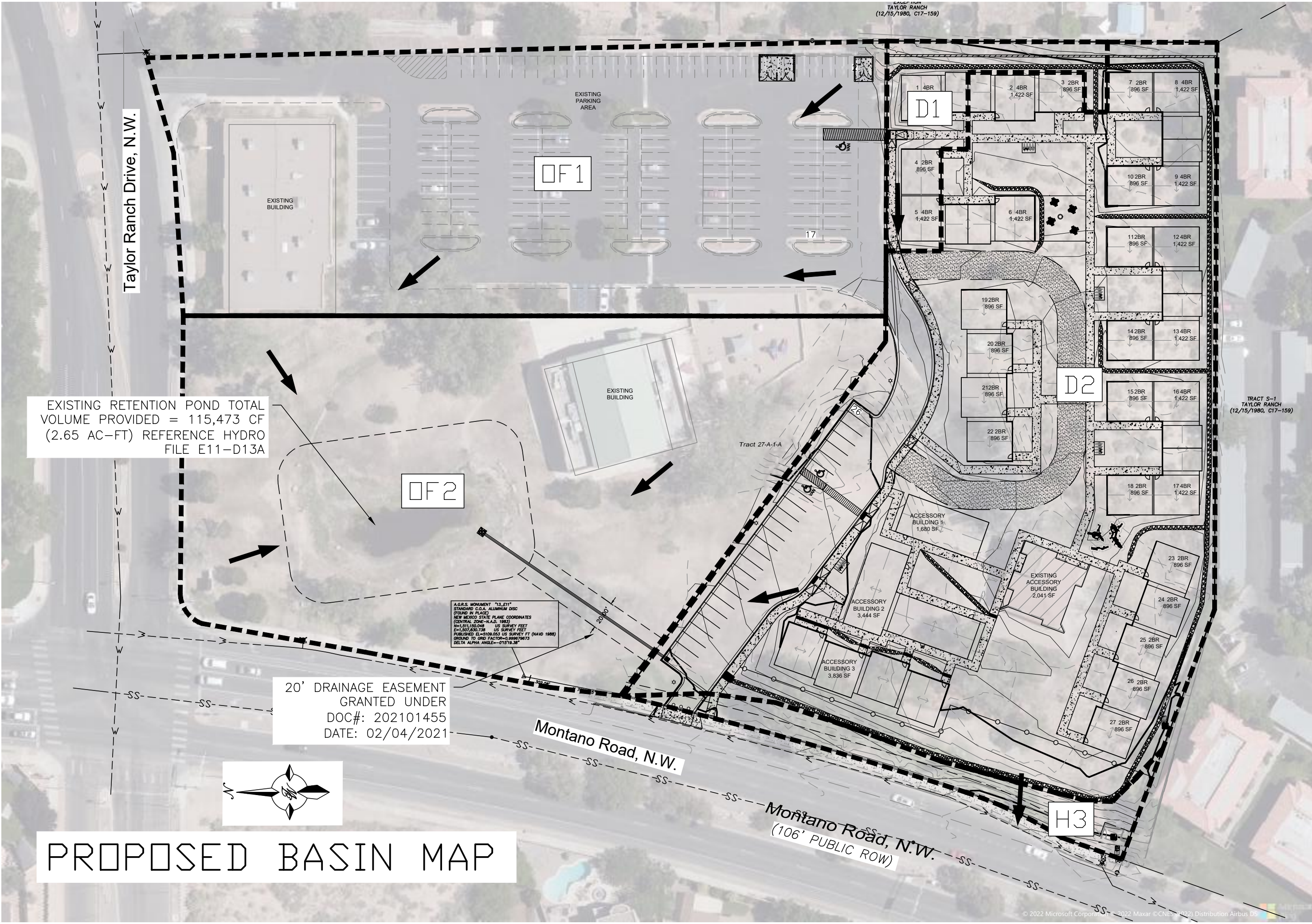


6. Check all pads. They should be higher than surrounding grade.
Response: Acknowledged and checked.
7. How will this work? Will there be a pipe under sidewalk?
 - a. Picture
 - b. Please show all of these details. As of now it appears this is just a ponding area.

Sincerely,

JN: 2019080
RRB/ln/mc

\\TWNAS\Z_Drive\2019\2019080 Golf Course & Montano 25 Unit Home (Saranam)\dwg\EPIC\2019080_BASIN.dwg Feb 14, 2022 -- 4:42pm



INTRODUCTION & REFERENCE FILES

FILE #: E11D013A

FLOOD PLAIN

THE PROJECT AREA IS INCLUDED ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) PANEL 35001C0114H DATED AUGUST 16, 2012 AND IS SHOWN ON THIS PAGE. THE MAP INDICATES THE SITE LIES WITHIN FLOOD ZONE X, AN AREA OF MINIMAL FLOOD HAZARD.

HISTORIC DRAINAGE:

THERE IS NO OFFSITE FLOWS INTO THE PARCEL. THE HISTORIC DRAINAGE RUNOFF IS RETAINED ONSITE WITH THE PARCEL DRAINING TO THE EXISTING RETENTION POND AT THE SOUTHWEST CORNER. IT APPEARS FROM A CURSORY REVIEW OF THE AVAILABLE DOCUMENTS THE RETENTION POND WAS SIZED TO ACCOMMODATE THE ENTIRE PARCEL IN A DEVELOPED STATE, AS DETAILED ON THE SITE DEVELOPMENT PLAN. THE LAKE IS AT LEAST 6 FEET DEEP AND THERE IS AN EXISTING MARSH/WETLAND AREA THAT WAS PLANTED AND IS IN GOOD HEALTH FOR ALBUQUERQUE. A SMALL PORTION OF THE EMBANKMENT ALONG THE FRONTAGE DRAINS DIRECTLY INTO MONTANO RD. THIS SLOPED LANDSCAPED AREA WILL REMAIN IN THE DEVELOPED CONDITION AND FREELY DISCHARGE.

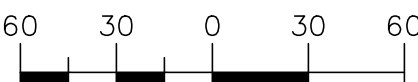
PROPOSED DRAINAGE:

THE WEIGHTED E METHOD FROM THE "CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL CH 6 WAS USED TO CALCULATE THE RUNOFF AND VOLUME FOR THE SITE. THE HYDROLOGY TABLES ARE SHOWN ON THIS PAGE. THE SITE WAS DIVIDED INTO 5 BASINS WITH THE APPROPRIATE LAND TREATMENT DETERMINED AS SHOWN IN THE DRAINAGE TABLE. THE MAJORITY OF THE SITE WILL SHEET FLOW AND BE DIRECTED BY CURB AND GUTTER TO A 3'X3' GRATE INLET IN THE PARKING LOT IN THE SOUTH WEST CORNER OF THE SITE WHICH HAS THE INLET CAPACITY FOR THE EXPECTED FLOW. ROOF DRAINS FROM THE RESIDENTIAL BUILDINGS SHALL BE DIRECTED INTO THE PARKING LOT AREA AND SHEET FLOW ACROSS THE PROPERTY. THE RUNOFF SHALL THEN BE DISCHARGED DIRECTLY TO THE EXISTING RETENTION POND VIA AN 18-INCH HDPE PIPE THAT HAS THE CAPACITY TO CONVEY THE DESIGN FLOWS. THE LANDSCAPED EMBANKMENT ALONG MONTANO WILL FREELY DISCHARGE INTO THE STREET AND DOES NOT CONTRIBUTE SIGNIFICANT FLOWS. A SMALL PORTION OF THE DRIVEWAY ENTRANCE SHALL ALSO FLOW INTO MONTANO RD. AS SHOWN IN THE HYDROLOGY CALCULATIONS THE EXISTING RETENTION POND HAS ENOUGH CAPACITY TO RETAIN THE 100 YR - 10 DAY STORM AND ANY REQUIRED STORM WATER QUALITY VOLUME.

LEGEND

--- BASIN BOUNDARY

GRAPHIC SCALE



SCALE: 1"=60'

DPM Weighted E Method Chapter 6

Precipitation Zone 1

East of Mesa View United Methodist Church

4701 Montano Rd NW, Albuquerque, NM 87120

TWLLC

Date 2/10/2022

Equations:

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)

Volume = Weighted E * Total Area

Flow = Qa*Aa + Qb*Ab + Qc*Ac + Qd*Ad

Existing Conditions

Basin Descriptions												100-Year, 10-Day			
Basin ID	Tract	Area (sf)	Area (acres)	Area (sq miles)	Treatment A		Treatment B		Treatment C		Treatment D		Weighted E	Volume	Flow
					%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs
H1	27-A-2-A	9,700	0.22	0.00035	85%	0.189	0%	0.000	10%	0.022	5%	0.011	0.675	0.014	0.40
H2	27-A-2-A	132,562	3.04	0.00476	70%	2.130	0%	0.000	20%	0.609	10%	0.304	0.799	0.246	6.28
*H3	27-A-2-A	7,636	0.18	0.00027	0%	0.000	0%	0.000	100%	0.175	0%	0.000	0.950	0.014	0.50
OF1	27-A-1-A	96,500	2.22	0.00346	0%	0.000	5%	0.111	15%	0.332	80%	1.772	1.971	0.619	8.49
OF2	27-A-1-A	102,500	2.35	0.00368	4%	0.094	0%	0.000	80%	1.882	16%	0.376	1.140	0.278	7.10
Total		142,262	8.01	0.01251		2.414		0.111		3.021		2.464		1.158	22.276

*BASIN H3 NATURALLY FLOWS TO CITY ROW AND IS NOT INCLUDED IN TOTAL VOLUME/FLOW

Proposed Conditions

Basin Descriptions												100-Year, 10-Day		
Basin	Tract	Area	Area	Area	Treatment A	Treatment B		Treatment C		Treatment D		Weighted E	Volume	Flow
ID		(sf)	(acres)	(sq miles)	%	(acres)	%	(acres)	%	(acres)	%	(in)	(ac-ft)	cfs
H1	27-A-2-A	9,700	0.22	0.00035	0%	0.000	25%	0.056	25%	0.056	50%	0.111	1.540	0.045 0.74
H2	27-A-2-A	132,562	3.04	0.00476	0%	0.000	20%	0.609	20%	0.609	60%	1.826	1.680	0.689 10.58
*H3	27-A-2-A	7,636	0.18	0.00027	0%	0.000	0%	0.000	100%	0.175	0%	0.000	0.950	0.014 0.50
OF1	27-A-1-A	96,500	2.22	0.00346	0%	0.000	5%	0.111	15%	0.332	80%	1.772	1.971	0.619 8.49
OF2	27-A-1-A	102,500	2.35	0.00368	4%	0.094	0%	0.000	80%	1.882	16%	0.376	1.140	0.278 7.10
Total		142,262	8.01	0.01251		0.094		0.775		3.054		4.086		1.631 26.916

*BASIN H3 NATURALLY FLOWS TO CITY ROW AND IS NOT INCLUDED IN TOTAL VOLUME/FLOW

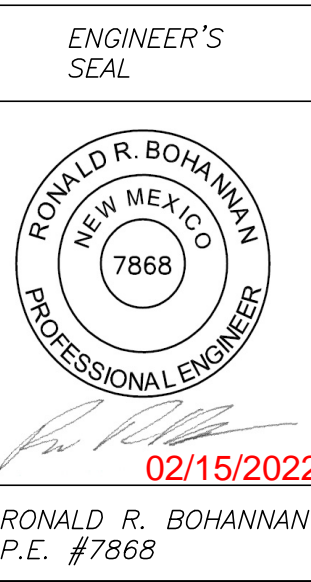
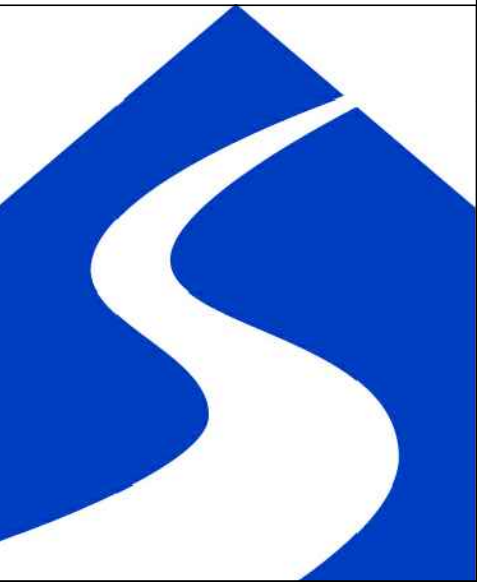
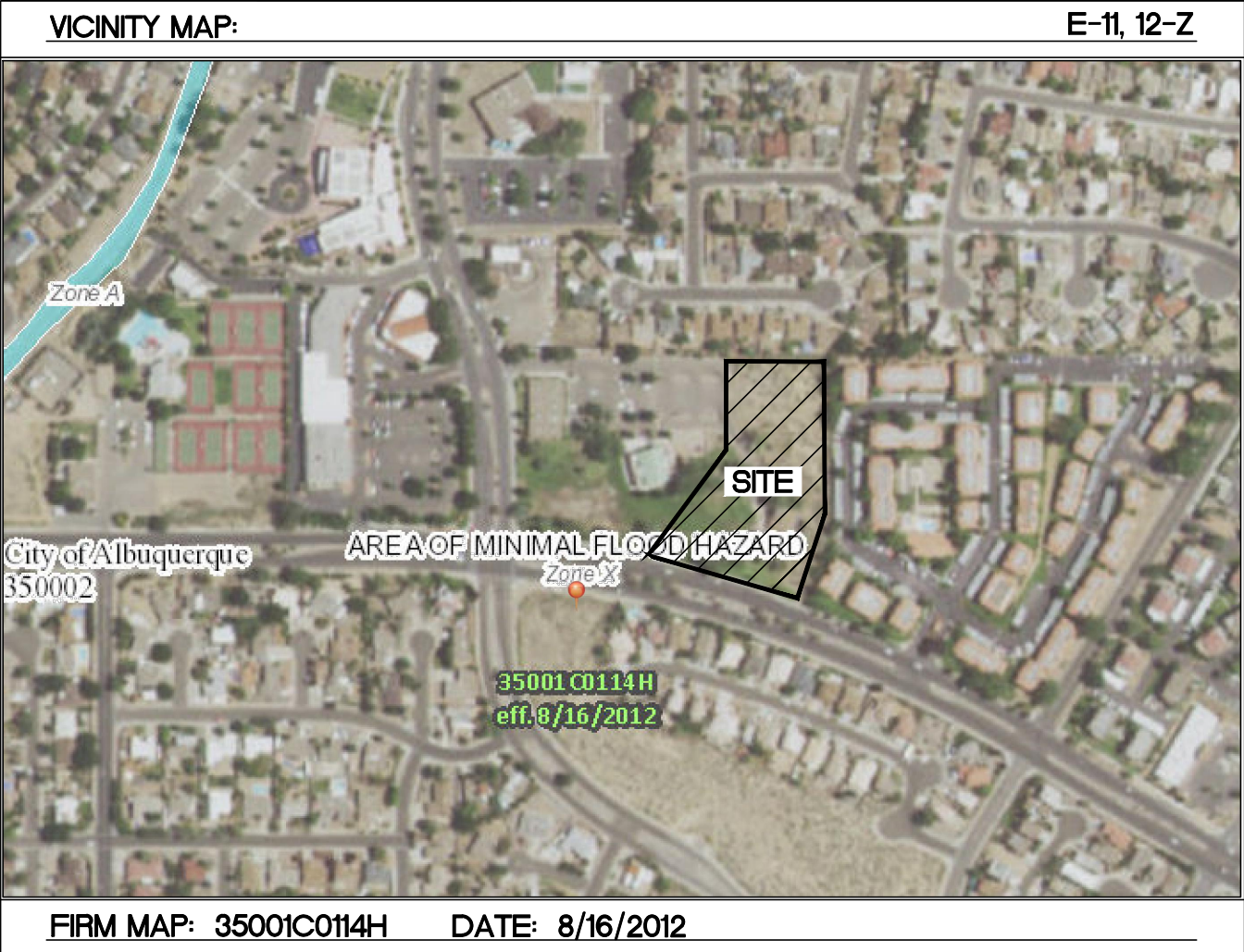
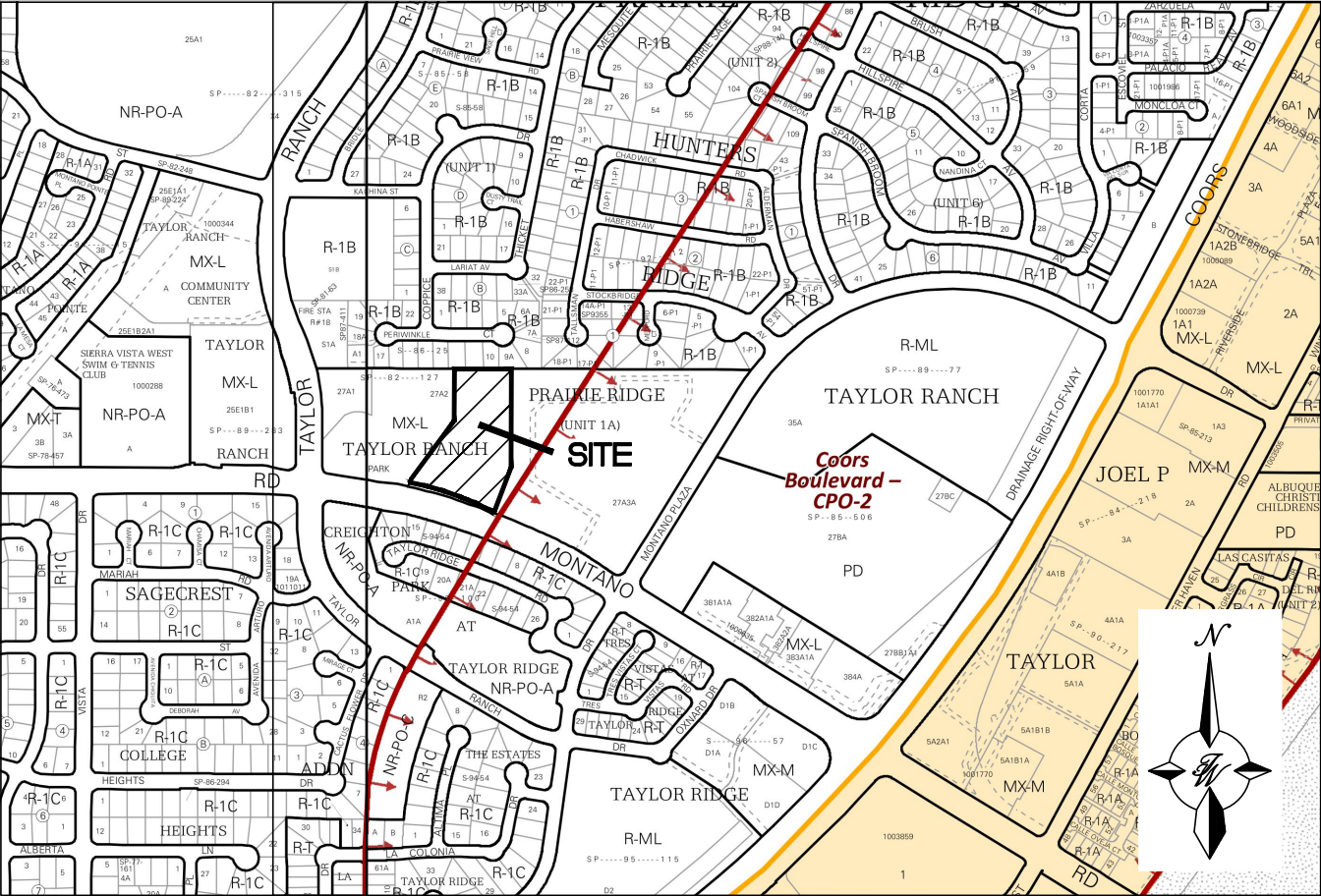
Excess Precipitation, E (in.)			
Zone 1	100-Year	10-Year	
Ea	0.55	0.08	
Eb	0.73	0.22	
Ec	0.95	0.44	
Ed	2.24	1.24	

Peak Discharge (cfs/acre)			
Zone 1	100-Year	10-Year	
Qa	1.54	0.3	
Qb	2.16	0.81	
Qc	2.87	1.46	
Qd	4.12	2.57	

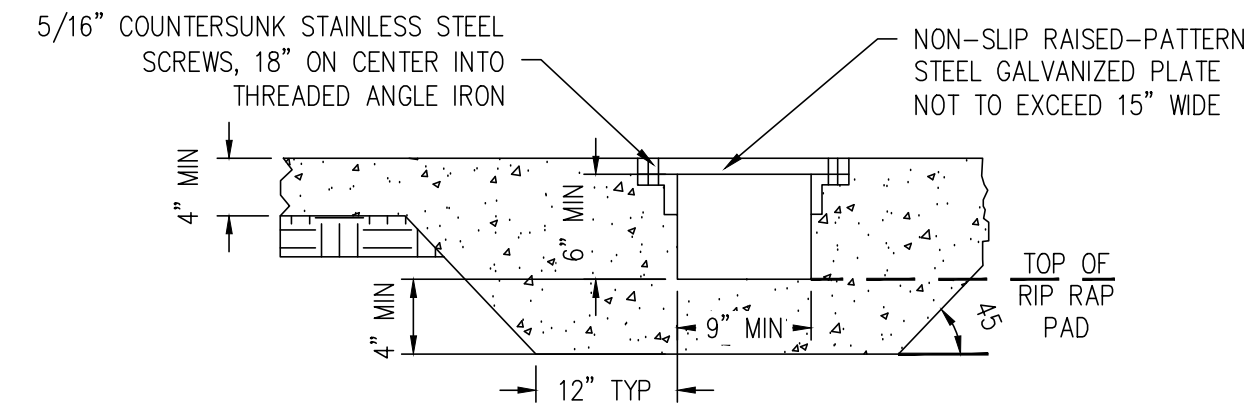
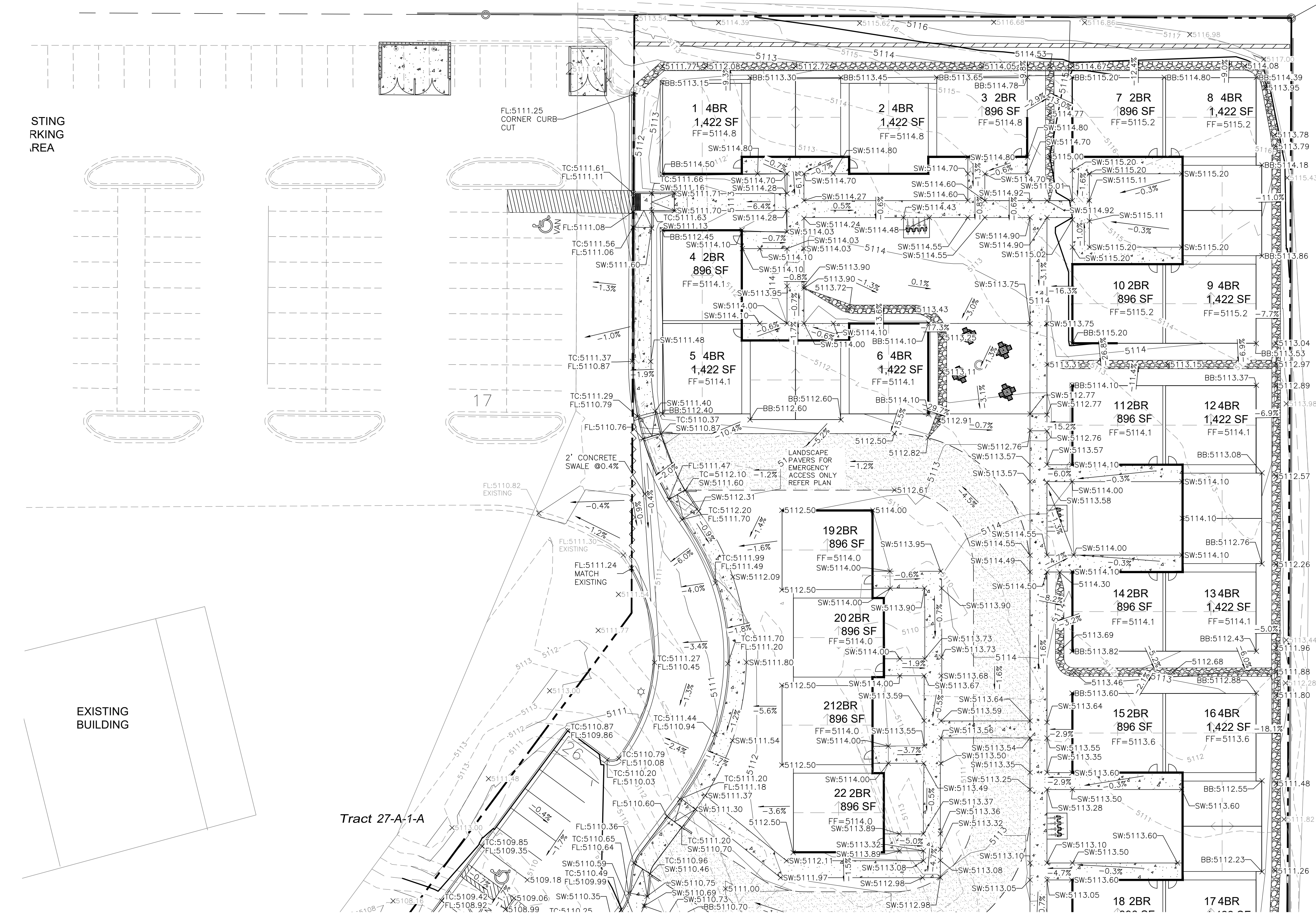
EXISTING POND	ELEVATION FT	AREA SF	VOLUME (CF)
5100	326	0	
5101	4486	2406	
5102	8728	9013	
5103	12123	19439	
5104	19494	35247	
5105	41166	65577	
OVERFLOW	5106	58625	115473

100-YR 10-DAY POND DATA	VOLUME AC-FT	VOLUME CF
Historic Pond Volume	1.158	50,442.40
Proposed Pond Volume Required	1.631	71,046.25
Existing Pond volume provided (Max)	2.65	115,473.00

* Existing pond volume obtained from As-builts file E11_D13A (11/22/2002)



SARANAM AT 4701 MONTANO RD NW		DRAWN BY LN
CONCEPTIONAL GRADING & DRAINAGE PLAN		DATE 10/20/2021
TERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100 www.tierrawestllc.com		2019080_BASIN
		SHEET # C2.1
		JOB # 2019080



LEGEND			
	CURB & GUTTER		5010 CONTOUR MAJOR
	BOUNDARY LINE		5011 CONTOUR MINOR
	EASEMENT		1,422.25 SPOT ELEVATION
	CENTERLINE		FLOW ARROW
	RIGHT-OF-WAY		EXISTING CURB & GUTTER
	BUILDING		EXISTING BOUNDARY LINE
	SIDEWALK		EXISTING CONTOUR MAJOR
	SCREEN WALL		EXISTING CONTOUR MINOR
	FENCE LINE		EXISTING SPOT ELEVATION
	GRADE BREAK		

SPOT ELEVATION LEGEND

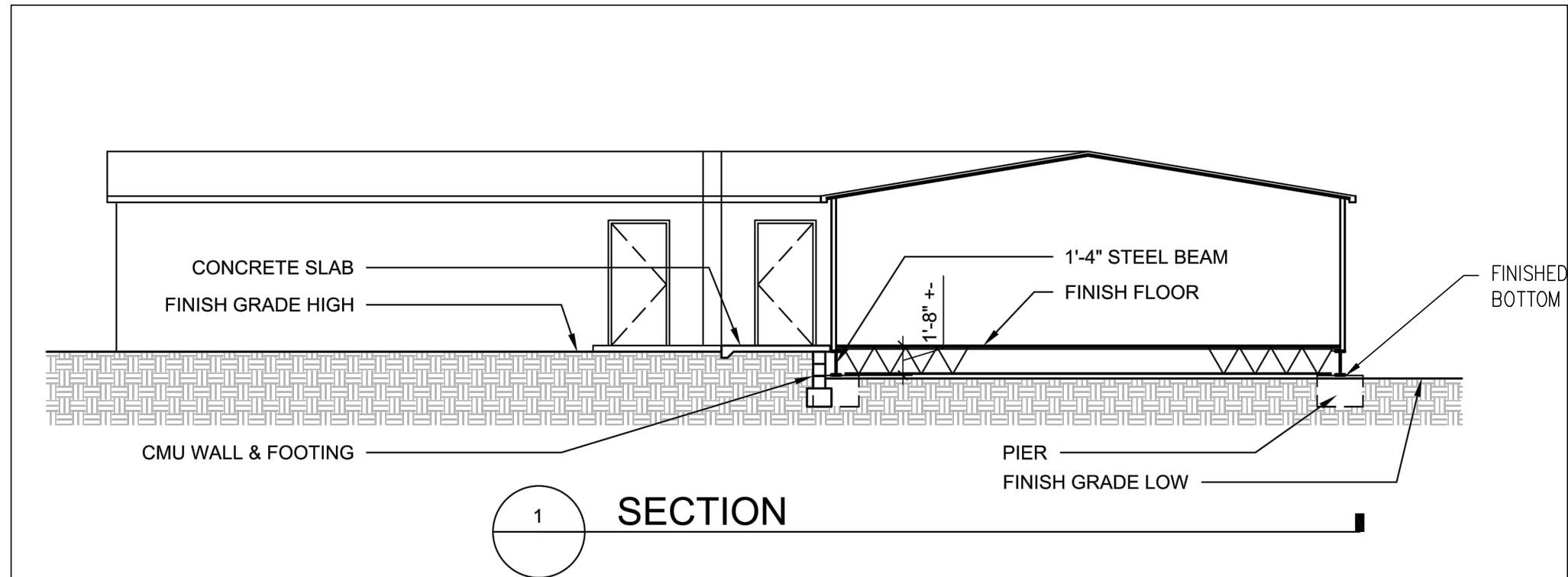
SW=SIDEWALK ELEVATION
FL=FLOW LINE ELEVATION
TC=TOP OF CURB ELEVATION
FF=FINISHED FLOOR ELEVATION
IE=INVERT ELEVATION
BB=FINISHED GRADE AT BOTTOM OF BEAM
REFER TYPICAL UNIT SECTION

SPOT ELEVATION NOTE:

ALL SPOT ELEVATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.

CAUTION
ALL EXISTING UTILITIES/TOPOGRAPHY SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

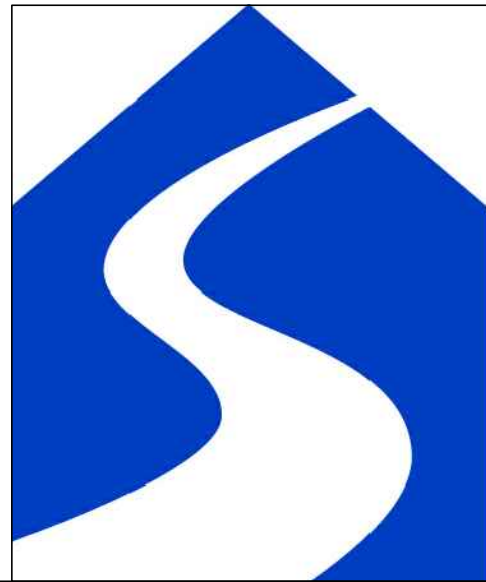
TRACT S-1
TAYLOR RANCH
(12/15/1980, C17-159)






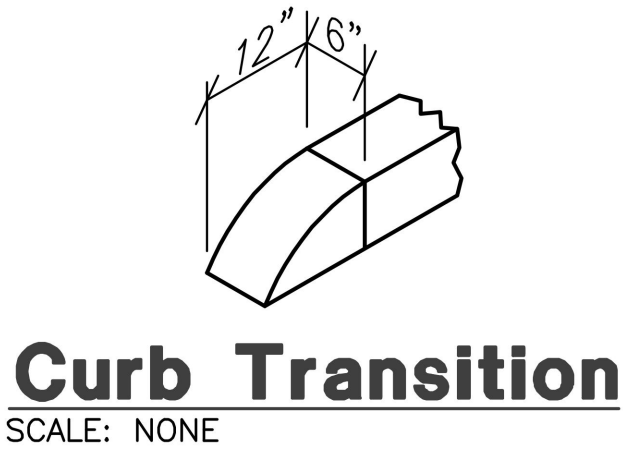
TYPICAL UNIT SECTION (FOR REFERENCE ONLY)
NTS

NOTICE TO CONTRACTORS

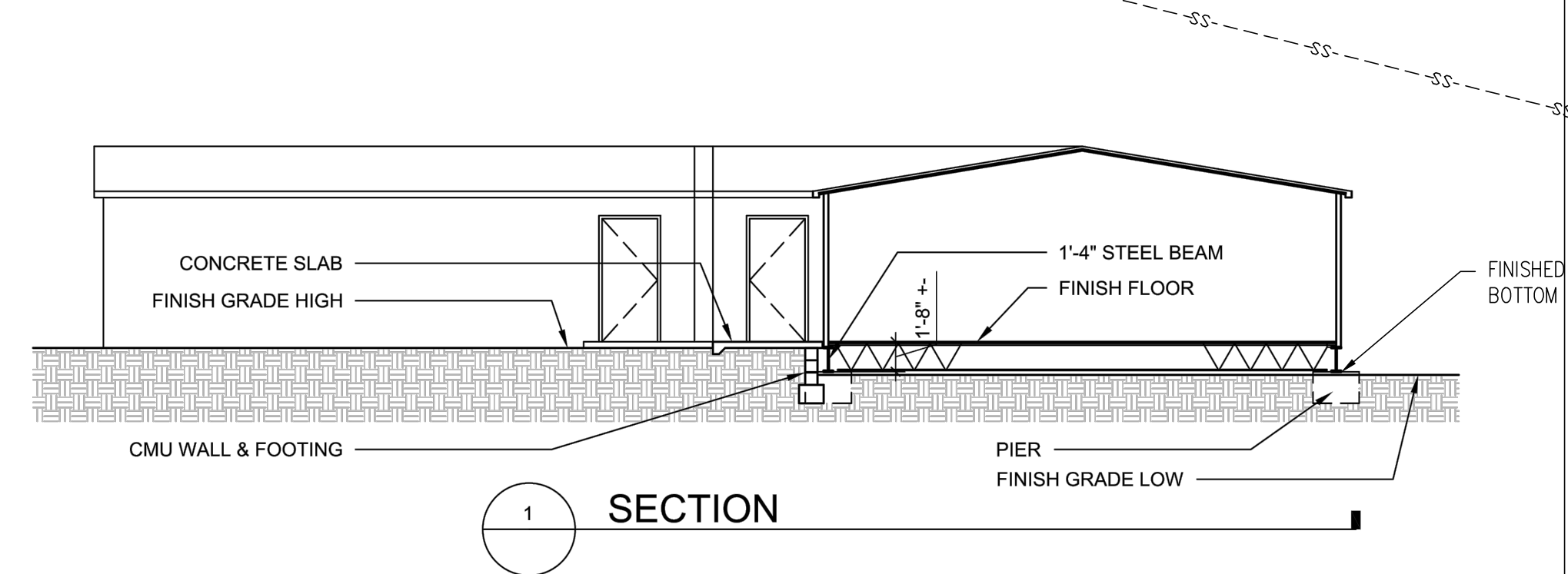
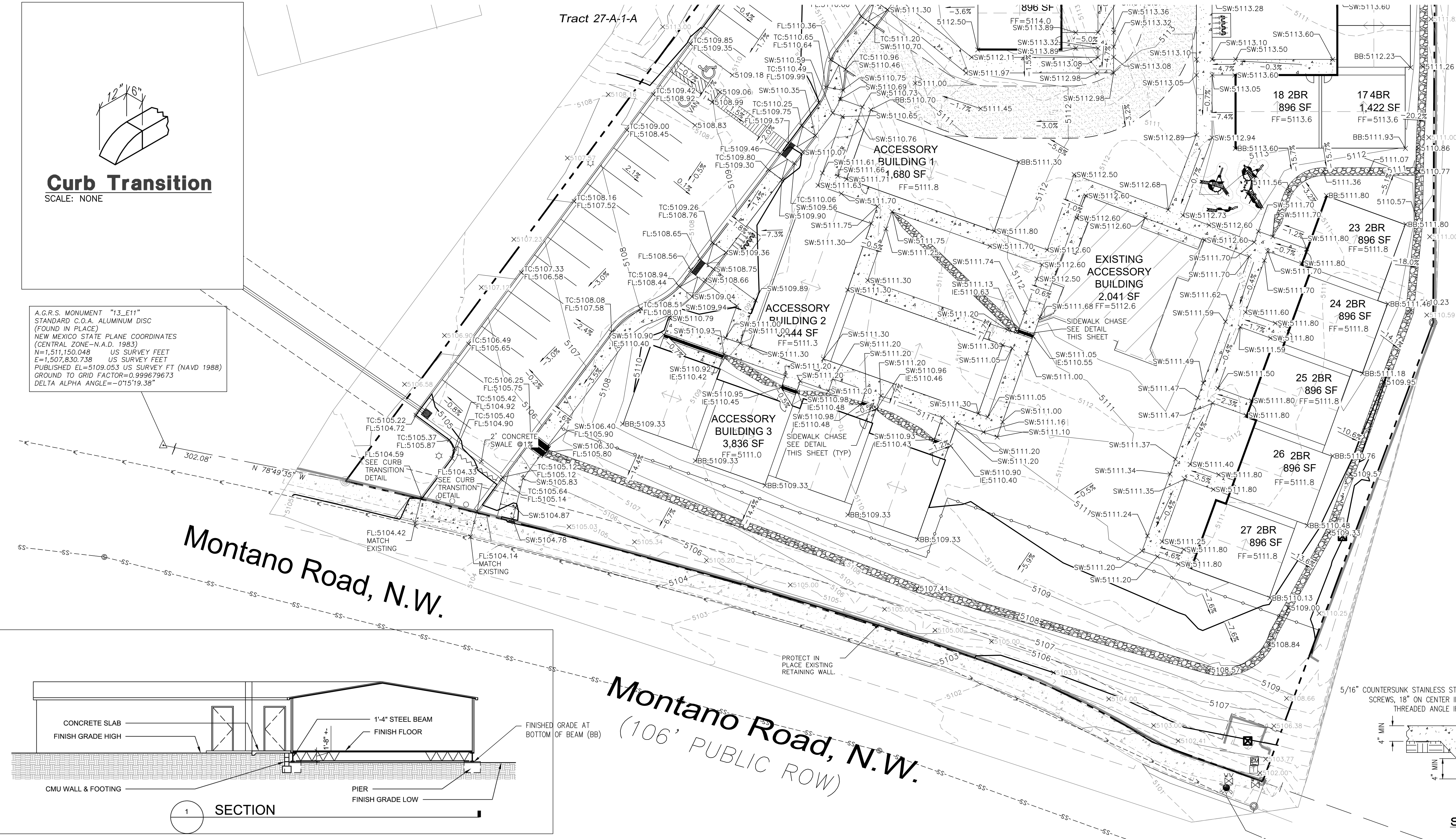
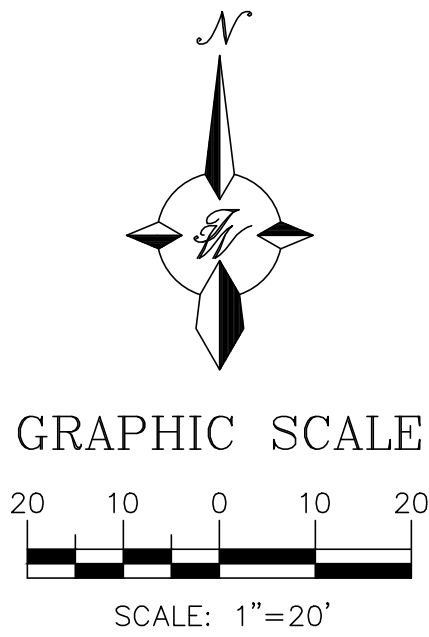
1. CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A MEETING PRIOR TO FORMING.
2. AN EXCAVATION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
3. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
4. 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.
5. 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.
6. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
7. MAINTENANCE OF THE FACILITY SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY BEING SERVED.
8. WORK ON ARTERIAL STREETS MAY BE REQUIRED ON A 24-HOUR BASIS.
9. CONTRACTOR MUST CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A CONSTRUCTION INSPECTION. FOR EXCAVATING AND BARRICADING INSPECTIONS, CONTACT CONSTRUCTION COORDINATION AT (505) 924-3416.



ENGINEER'S SEAL	SARANAM AT 4701 MONTANO RD NW	DRAWN BY LN
  02/15/2022		DATE 10/20/2021
	DETAILED GRADING PLAN (NORTH)	2019080_GRE
		 <i>TIERRA WEST, LLC</i> 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100 www.tierrawestllc.com
RONALD R. BOHANNAN P.E. #7868		JOB # 2019080



A.G.R.S. MONUMENT "13.E11"
STANDARD C.O.A. ALUMINUM DISC
(FOUND IN PLACE)
NEW MEXICO STATE PLANE COORDINATES
(CENTRAL ZONE-N.A.D. 1983)
N=1,511,150.048 US SURVEY FEET
E=1,507,830.738 US SURVEY FEET
PUBLISHED EL=5109.053 US SURVEY FT (NAVD 1988)
GROUND TO GRID FACTOR=0.999679673
DELTA ALPHA ANGLE=-0°15'19.38"



LEGEND			
	CURB & GUTTER		CONTOUR MAJOR
	BOUNDARY LINE		CONTOUR MINOR
	EASEMENT		SPOT ELEVATION
	CENTERLINE		FLOW ARROW
	RIGHT-OF-WAY		EXISTING CURB & GUTTER
	BUILDING		EXISTING BOUNDARY LINE
	SIDEWALK		EXISTING CONTOUR MAJOR
	SCREEN WALL		EXISTING CONTOUR MINOR
	FENCE LINE		EXISTING SPOT ELEVATION
	GRADE BREAK		

- NOTICE TO CONTRACTORS**
- CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A MEETING PRIOR TO FORMING.
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 - CONTRACTOR MUST CONTACT STORM DRAIN MAINTENANCE AT (505) 857-8033 TO SCHEDULE A CONSTRUCTION INSPECTION. FOR EXCAVATING AND BARRICADING INSPECTIONS, CONTACT CONSTRUCTION COORDINATION AT (505) 924-3416.

SPOT ELEVATION LEGEND

SW=SIDEWALK ELEVATION
FL=FLOW LINE ELEVATION
TC=TOP OF CURB ELEVATION
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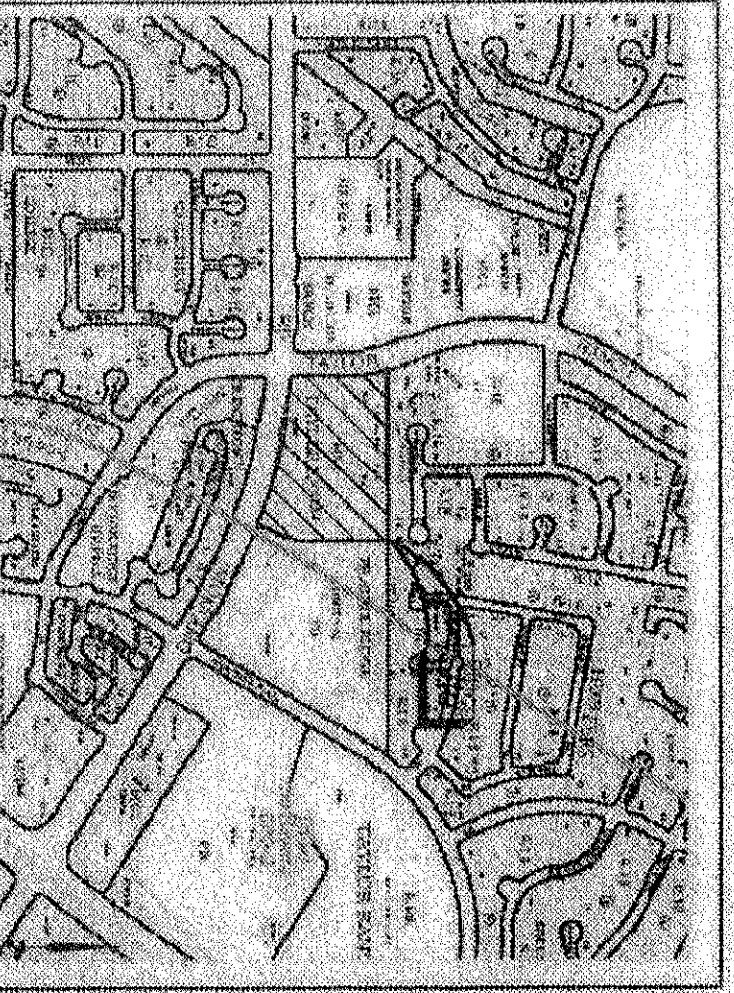
	ENGINEER'S SEAL		DRAWN BY LN		
	SARANAM AT 4701 MONTANO RD NW				
	DETAILED GRADING PLAN (SOUTH)		DATE 10/20/2021		
	 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100 www.tierrawestllc.com		2019080_GRE		
			SHEET # C2.4		
			JOB # 2019080		



Plat of
Tracts 27-A-1-A & 27-A-2-A
Taylor Ranch
Sections 25 & 26, Township 11 North, Range 2 East, N.M.P.M.
Albuquerque, Bernalillo County, New Mexico
May 2019

Legal Description

A TRACT OF LAND Lying and situate within Section 25 and 26, Township 11 North, Range 2 East, N.M.P.M., Bernalillo County, New Mexico, containing 160.00 acres, more or less, as shown and described on the plat hereof filed in the office of the County Clerk of Bernalillo County, New Mexico, on May 12, 1982, in and to which said tract has been assigned the name of Tracts 27-A-1-A and 27-A-2-A, as shown on said plat.



Location Map

Zone Atlas Map No. E-11-Z & E-12-Z

Subdivision Data:

DATE OF SUBDIVISION: 02/04/2021
DATE OF RECORD: 02/04/2021
DATE OF SALE: 02/04/2021
DATE OF SURVEY: 02/04/2021

Purpose of Plat

THE PURPOSE OF THIS PLAT IS TO SET OUT THE BOUNDARY LINES AND TO DEFINE THE ADDITIONAL RIGHT OF WAY FOR STREET PURPOSES FOR MONTEZUMA ROAD, NW AND TAYLOR ROAD, NW AND TO BEYOND THEREAFTER.

Notes:

1. ALL SURVEYING AND MEASUREMENTS HAVE BEEN MADE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE BOARD OF SURVEYORS AND MAPPERS OF THE STATE OF NEW MEXICO.

Public Utility Easements

THE PUBLIC UTILITY EASEMENTS SHOWN ON THIS PLAT ARE GRANTED FOR THE CONVEYANCE OF ELECTRICITY, GAS, WATER, AND OTHER UTILITIES. THE EASEMENTS ARE GRANTED TO THE PUBLIC UTILITY COMPANIES AND ARE NOT TO BE INTERFERED WITH BY ANY OTHER USE OF THE LAND.

Free Consent and Dedication

THE UNDERSIGNED, OWNER OF THE LAND SHOWN ON THIS PLAT, HEREBY GRANTS AND DEDICATES TO THE PUBLIC THE RIGHT OF WAY FOR STREET PURPOSES FOR MONTEZUMA ROAD, NW AND TAYLOR ROAD, NW AND TO BEYOND THEREAFTER.

Acknowledgment

I, the undersigned, do hereby acknowledge that I am the owner of the land shown on this plat and that I have executed this plat in accordance with the laws of the State of New Mexico.

Disclaimer

THE UNDERSIGNED DOES NOT WARRANT OR GUARANTEE THE ACCURACY OF THE SURVEYING AND MEASUREMENTS SHOWN ON THIS PLAT. THE UNDERSIGNED ACCEPTS NO LIABILITY FOR ANY ERRORS OR OMISSIONS.

COORDINATE AND DIMENSION INFORMATION		INDEXING INFORMATION FOR COUNTY CLERK		PRECISION SURVEY, INC.	
GRID	STANDARD	PROPERTY OWNER	MEASUREMENT UNIT	DATE OF SURVEY	DATE OF RECORD
NAD83	UTM	WESLEYAN UNITED METHODIST CHURCH, INC.	FEET	02/04/2021	02/04/2021
ALBUQUERQUE GEODETIC REFERENCE SYSTEM	NAD83	TAYLOR RANCH	FEET	02/04/2021	02/04/2021
GROUND TO GROUND 1.00000000	UTM	4701 MONTEZUMA ROAD, NW	FEET	02/04/2021	02/04/2021
GROUND TO GROUND 0.99999999	UTM	4701 MONTEZUMA ROAD, NW	FEET	02/04/2021	02/04/2021

Project No. PR-2019-002006
Application No. SD-2019-00149

Utility Approvals

Rochelle Abeyta

City Approvals

Jeanne Weyenbayer

Jan 22, 2021

Jan 22, 2021

Jan 22, 2021

Jan 22, 2021

Jan 22, 2021

Jan 22, 2021

Surveyor's Certificate

I, the undersigned, do hereby certify that I am a duly licensed surveyor in the State of New Mexico and that I have executed this plat in accordance with the laws of the State of New Mexico.

02/04/2021

02/04/2021

02/04/2021

02/04/2021

02/04/2021

02/04/2021

02/04/2021

02/04/2021

2021C-5

(1)

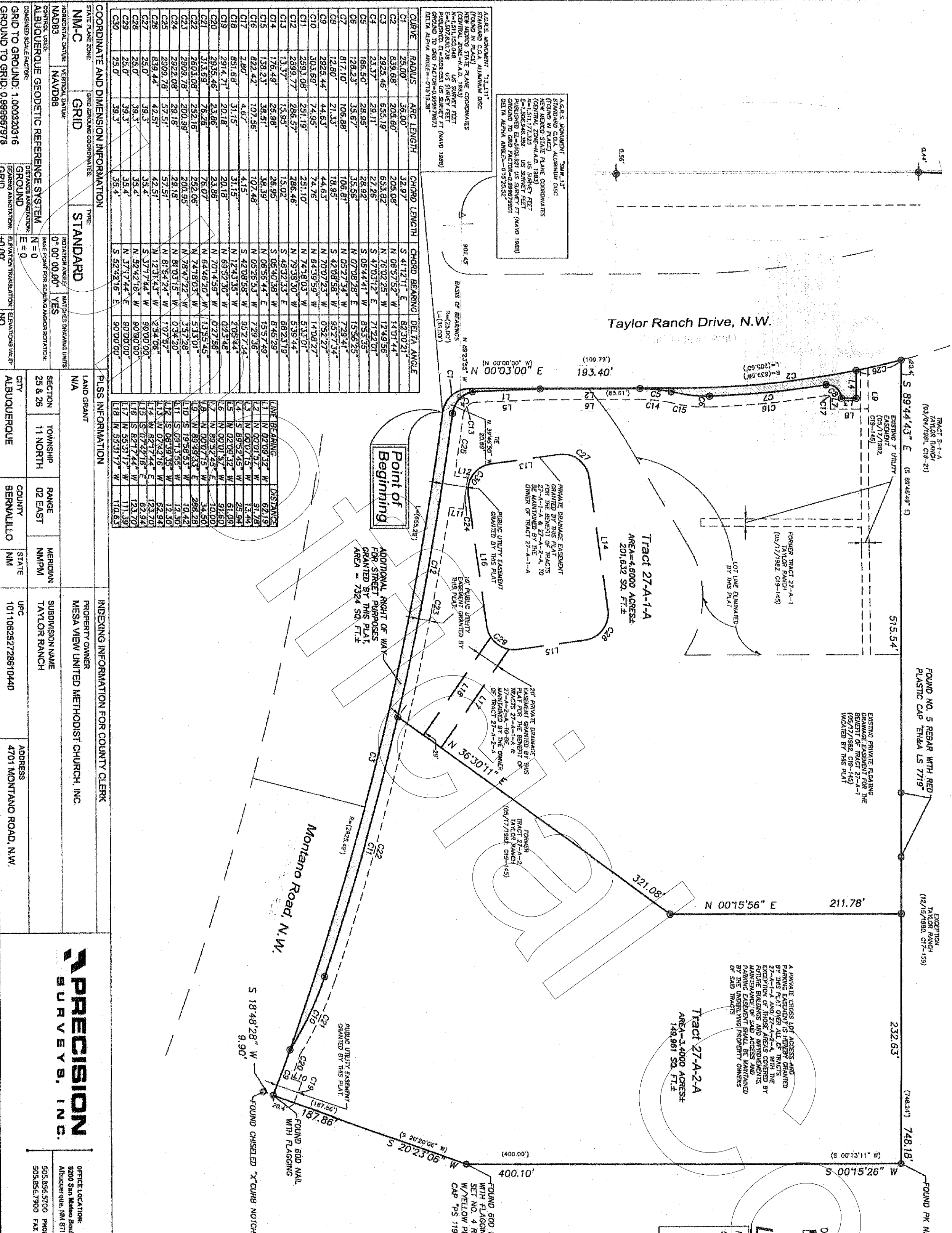
DOCH 2021014555
02/04/2021 12:24 PM Page 2 of 2
PLAT R-525-00-B-2021-P-0006 Linda Stover, Bernalillo County
RECORDING STAMP

Plat of
Tracts 27-A-1-A & 27-A-2-A
Taylor Ranch
Sections 25 & 26, Township 11 North, Range 2 East, N.M.P.M.
Albuquerque, Bernalillo County, New Mexico
December 2020

Legend
N 90°00'00" E
MEASURED BEARING AND DISTANCES
FOUND AND USED MONUMENT
AS DESIGNATED
REAR NO. 4 REAR WITH YELLOW
PLASTIC CAP PS 11933 SET THIS SURVEY
TO BE REMOVED
FOUND ALUMINUM AGES MONUMENT
AS DESIGNATED



TRACT 27-A-1
TAYLOR RANCH
(12/15/1980, C17-159)



CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	25.00'	36.00'	32.97'	S 41°12'11" E	82°30'21"
C2	839.68'	205.60'	205.08'	N 08°57'52" W	14°01'44"
C3	2925.46'	655.19'	653.82'	N 76°02'25" W	12°49'56"
C4	23.37'	29.11'	27.26'	S 47°03'12" E	71°22'01"
C5	186.50'	38.95'	28.92'	S 05°44'41" W	85°31'55"
C6	128.23'	35.67'	28.92'	N 07°08'28" E	15°56'25"
C7	817.10'	106.88'	106.81'	N 05°27'34" W	72°39'41"
C8	12.80'	21.33'	18.95'	S 42°08'58" W	95°27'34"
C9	2825.44'	44.63'	44.63'	N 70°07'23" W	05°27'34"
C10	303.60'	74.95'	74.76'	N 64°38'59" W	14°08'27"
C11	2583.08'	281.15'	251.10'	N 74°18'03" W	51°11'01"
C12	2880.77'	286.57'	286.46'	N 78°18'50" W	53°39'44"
C13	133.77'	15.85'	15.02'	S 48°32'33" E	68°23'19"
C14	176.49'	20.98'	18.52'	N 08°40'38" W	84°51'08"
C15	138.43'	28.51'	26.39'	N 08°56'42" E	15°57'48"
C16	822.42'	107.58'	107.48'	N 08°25'53" W	72°39'45"
C17	2.80'	4.67'	4.13'	S 42°08'58" W	95°27'34"
C18	851.88'	31.15'	31.15'	N 12°43'55" W	2°05'44"
C19	2914.71'	20.18'	20.18'	N 69°52'30" W	02°23'48"
C20	2835.46'	23.86'	23.86'	N 70°18'59" W	02°23'48"
C21	313.69'	76.28'	76.07'	N 64°48'20" W	13°55'45"
C22	2603.08'	252.16'	252.06'	N 74°18'03" W	51°11'01"
C23	2508.78'	200.99'	200.95'	N 78°47'22" W	51°11'01"
C24	2822.08'	28.18'	28.18'	N 81°03'15" W	0°34'20"
C25	2809.78'	57.51'	57.51'	N 81°54'24" W	1°07'57"
C26	839.44'	42.51'	42.51'	N 12°31'43" W	2°54'08"
C27	25.0'	39.3'	35.4'	S 37°17'44" W	90°00'00"
C28	25.0'	39.3'	35.4'	N 52°42'16" W	90°00'00"
C29	25.0'	39.3'	35.4'	S 37°17'44" E	90°00'00"
C30	25.0'	39.3'	35.4'	S 52°42'16" E	90°00'00"

LINE BEARING	DISTANCE
L1 N 82°09'47" W	62.19'
L2 N 00°01'57" W	91.48'
L3 N 00°07'15" W	13.44'
L4 S 89°52'45" W	25.84'
L5 N 02°09'32" W	61.09'
L6 N 00°01'57" W	91.60'
L7 N 89°52'45" E	10.00'
L8 N 00°07'15" W	34.50'
L9 N 89°48'53" E	286.28'
L10 S 18°58'53" W	10.42'
L11 S 08°10'35" W	12.30'
L12 S 08°10'35" W	12.30'
L13 N 02°42'16" W	62.94'
L14 N 82°17'44" E	123.70'
L15 S 07°42'16" E	62.94'
L16 S 82°17'44" W	123.70'
L17 N 55°31'17" W	111.39'
L18 N 55°31'17" W	110.83'

COORDINATE AND DIMENSION INFORMATION	
STATE PLANE ZONE	GRID
NAD83	NAVD88
HORIZONTAL DATUM	VERTICAL DATUM
ALBUQUERQUE GEODETIC REFERENCE SYSTEM	ALBUQUERQUE GEODETIC REFERENCE SYSTEM
COMBINED SCALE FACTOR	COMBINED SCALE FACTOR
GROUND TO GRID: 1.00030316	GROUND TO GRID: 0.999697878
GROUND TO GRID: 0.999697878	GROUND TO GRID: 1.00030316


PLSS INFORMATION	
SECTION	TOWNSHIP
25 & 26	11 NORTH
RANGE	COUNTY
02 EAST	BERNALILLO
MERIDIAN	STATE
NMPPM	NM
SUBDIVISION NAME	UPC
TAYLOR RANCH	101108232728610440
ADDRESS	
4701 MONTANO ROAD, N.W.	

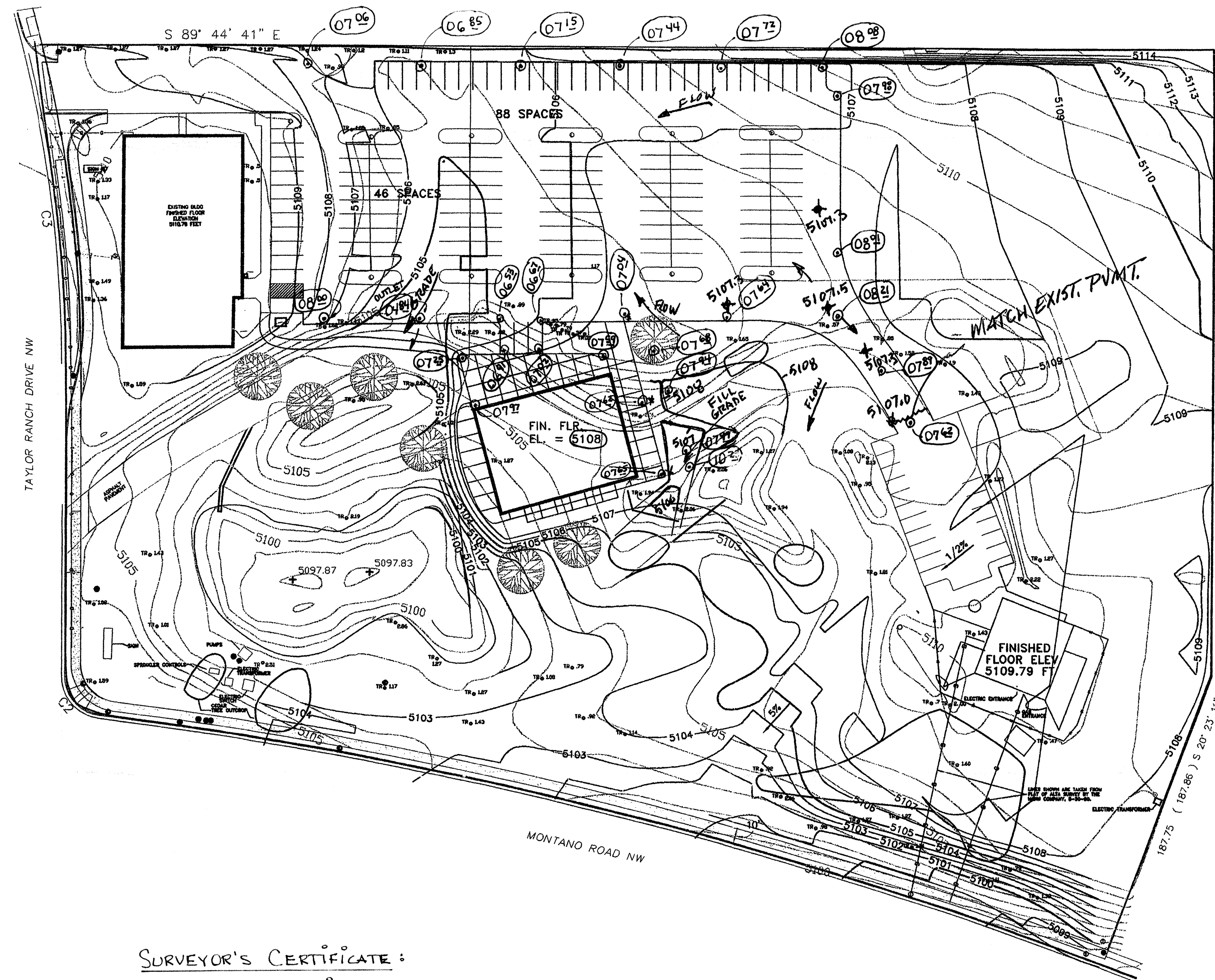
PROJECT INFORMATION	
DRAWN BY:	DATE OF SURVEY
JKMP	02/26-27/2019
CHECKED BY:	
LM	
PSI JOB NO.	SHEET NUMBER
19-2022P	2 OF 2

PRECISION SURVEYS, INC.	
OFFICE LOCATION:	2820 San Mateo Boulevard, NE
Albuquerque, NM 87113	505.856.5700 PHONE
	505.856.7900 FAX

2021C-5

(2)

MESA VIEW CHURCH	GRADING AND DRAINAGE PLAN	DRAWING NUMBER <div style="font-size: 2em; font-weight: bold;">C1</div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> DESIGNED BY: M.H.B. </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> DRAWN BY: T.D.S. </div> <div style="border: 1px solid black; padding: 5px;"> CHECKED BY: </div> <div style="text-align: center; margin-top: 10px;">  </div>
-------------------------	----------------------------------	---	--



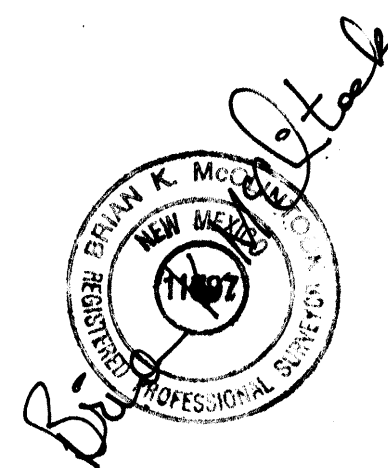
SURVEYOR'S CERTIFICATE:

THE AS-BUILT ELEVATIONS, SHOWN HEREON BY THE CIRCLED NUMBERS, WERE TAKEN IN THE FIELD ON NOVEMBER 22ND, 2002. THE ELEVATIONS SHOWN ARE BASED OFF THE BUILDING F/F ELEVATION OF 5108.00 AND ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Brian K. McClintock

BRIAN K. MCCLINTOCK, NMPS No 11597

DATED: 11/22/2002



Engineer's Certification Mesa View Church Addition - Phase One

This site was surveyed on November 22, 2002 by Brian K. McClintock, NMPS No. 11597 to confirm post-construction design elevations and drainage for the project's first phase. I, Mark H. Burak, P.E. have assessed the "as constructed" conditions and have found the site to be in substantial compliance with the approved plan stamped 01/08/02.

Mark H. Burak
Mark H. Burak, P.E. # 10987 December 1, 2002

