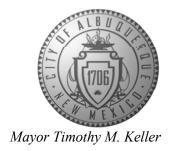
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



March 28, 2023

Jesse Sullivan, P.E. Matrix Design Group, Inc. 2435 Research Parkway, Suite 300 Colorado Springs, CO 80920

RE: Circle K – 9620 Eagle Ranch Rd. NW Conceptual Grading & Drainage Plans Engineer's Stamp Date: 03/08/23

Hydrology File: C13D028

Dear Mr. Sullivan:

Based upon the information provided in your submittal received 03/21/2023, the Conceptual Grading & Drainage Plans are preliminary approved for action by the Development Facilitation Team (DFT) on Site Plan for Building Permit.

PRIOR TO BUILDING PERMIT:

Albuquerque

1. Please submit a more detailed Grading & Drainage Plan to Hydrology for review and approval. This digital (.pdf) is emailed to PLNDRS@cabq.gov along with the Drainage Transportation Information Sheet.

NM 87103

www.cabq.gov

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 924-3995 or rbrissette@cabq.gov.

Sincerely,

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

Renée C. Brissette



City of Albuquerque

Planning Department

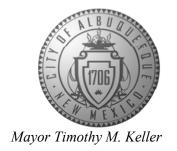
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Project Title: Circle K - Eagle Ran	nch/Irving Buildin	ng Permit #	Hydrology File #
DRB# PR-2022-006555		EPC#	
Adobe Wells Subdiv County, New Mexico designated on the p	of Plat of Tracts A-1 and A- rision, Albuquerque, Bernal o, as the same is shown and olat thereof, filed in the Offi of Bernalillo County, New	d	ss OR Parcel_9610 Eagle Ranch Rd I Albuquerque NM 871
Applicant/Agent: Land Developm	ment Consul <u>tants</u>		Contact:
Sofia Hernandez	Address:	950 S Cherr	ry St, Ste 510, Denver CO 80246
Phone: 303-717-3305	Email: _	sofia@ldcaz.com	
Applicant/Owner: Circle K Store			
Address: 5500 S Quebec St.,	Ste 100 Greenwood	Village, CO 80111	Phone:
303-717-3305	Email:sofia@	Oldcaz.com	
RE-SUBMITTAL:YESX DEPARTMENT:TRANS Check all that apply:	SPORTATION X	_ HYDROLOGY	Y/DRAINAGE
DEPARTMENT:TRANS Check all that apply:		_	
DEPARTMENT:TRANS Check all that apply: TYPE OF SUBMITTAL:	Т	YPE OF APPRO	OVAL/ACCEPTANCE SOUGHT
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CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



January 9, 2023

Jesse Sullivan, P.E. Matrix Design Group, Inc. 2435 Research Parkway, Suite 300 Colorado Springs, CO 80920

Comment responses attached

RE: Circle K – 9620 Eagle Ranch Rd. NW Conceptual Grading & Drainage Plans Engineer's Stamp Date: No Date Hydrology File: C13D028

Dear Mr. Sullivan:

PO Box 1293

Based upon the information provided in your submittal received 12/21/2022, the Conceptual Drainage Management Plan **is not** approved for action by the Development Facilitation Team (DFT) for Site Plan for Building Permit. The following comments need to be addressed for approval of the above referenced project:

Albuquerque

1. Please provide a date with the engineer's stamp & a signature. Please note that this is the date of signature and not the expiration date of the New Mexico engineer's stamp.

NM 87103

2. Please use the procedure for 40 acre and smaller basins as outlined in Development Process Manual (DPM) Article 6-2(a). Please provide both the existing conditions and proposed conditions for the 100 year-6 hour storm event.

www.cabq.gov

- 3. Please follow the DPM Article 6-12 Stormwater Quality and Low-Impact Development for the sizing calculations. To calculate the required SWQV, multiply the impervious area draining to the BMP by 0.42 inches for new development sites. For this site, the impervious area is 1.24 AC or **54,014.4 SF**. Times the SF by 0.42 then divide by 12. This gets a required SWQ volume of **1,890.50 CF**.
- 4. Please provide sections of the Stormwater Quality Pond. This should include the top of pond elevation, bottom of pond elevation, side slopes, Stormwater Quality water surface elevation (the required volume). Also include items such as retaining walls, pipes with inverts coming into the pond, and the outfall structure or emergency spillway.
- 5. All gas stations must drain to an oil/water separator (the Owner's choice) prior to discharge. This is mainly for the area around the pumps so some previous stations have placed this prior the remainder of the runoff going into the Stormwater quality pond. Since this site appears to be collected in a pipe system, instead of a manhole, this can be an oil/water separator.

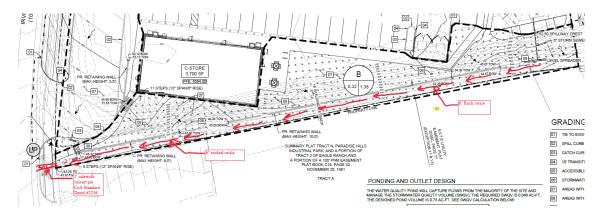
CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

6. Please provide a 6-in swale along the south property line to direct the SWQ Pond's flow to Irving Blvd. At the R.O.W., please a 2-ft sidewalk culvert and reference City of Albuquerque standard detail No. 2236 – Sidewalk Culvert with Steel Plate Top at the sidewalk culvert.



PO Box 1293

7. Per the IDO § 6-4(Q), the property owner of the property is responsible for building the sidewalks along both Eagle Ranch Rd and Irving Blvd. Please consult the Transportation Section to determine the width of the proposed sidewalks. Please note ADA ramps may also be required.

Albuquerque

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.

www.cabq.gov

NM 87103

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

Sincerely,

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

Renée C. Brissette

Planning Department



Matrix Design Group, Inc. 2435 Research Parkway, Suite 300 Colorado Springs, CO 80920 O 719.575.0100 F 719.575.0208 matrixdesigngroup.com

- 1. The date provided with the engineer's stamp & signature is the date of signature and has been updated.
- 2. The runoff summary tables have been updated to follow the procedure for 40-acre and smaller basins outlined in DPM Article 6-2(a). The 100-year, 6-hour storm event excess precipitation depths are shown in both the existing and proposed conditions runoff summary tables.
- 3. The SWQV has been updated per the calculation provided in DPM Article 6-12.
- 4. Pond sections are now included.
- 5. An oil/water separator is now proposed. An ADS Barracuda Max, model S6 is proposed in a 6-foot diameter manhole.
- 6. The swale could not drain to the Irving Blvd curb as shown since the curb flowline is higher than sections of the southern property line. Refer to exhibit that shows the profile of the existing grade along the property line. The amount of site-generated runoff anticipated at the southern property line is less in the proposed condition (100-year flow is 1.75 cfs) compared to the existing condition (3.88 cfs). Therefore, no adverse downstream impacts are anticipated due to the construction of this site.
- 7. Noted. Sidewalks along both Eagle Ranch Road and Irving Blvd are proposed.

CONCEPTUAL GRADING & DRAINAGE PLAN CIRCLE K

9620 EAGLE RANCH RD NW ALBUQUERQUE, NM 87114





HYDROLOGY SECTION PRELIMINARY APPROVED CONCEPTUAL ONLY. MORE INFORMATION MAY BE NEEDED IN THEM AND SUBMITTED TO HYDROLOGY FOR BUILDING PERMIT APPROVAL

FLOOD ZONE INFORMATION

IT IS DETERMINED THAT THE SUBJECT PROPERTY RESIDES IN THE FOLLOWING FLOOD ZONE 'X' AS DETERMINED BY OR SHOWN BY FIRM COMMUNITY PANEL NO. 35001C0108G DATED 09/26/2008.

BENCHMARK

ALL BEARINGS AND DISTANCES SHOWN MATCH THE PLAT OF TRACTS A-1 AND A-2, ADOBE WELLS SUBDIVISION, PLAT BOOK 2005C, PAGE 77, FEBRUARY 24, 2005 IN THE OFFICE OF THE COUNTY CLERK OF THE COUNTY OF BERNALILLO, NEW MEXICO.

LEGAL DESCRIPTION

TRACT A-1, AS SHOWN ON THE PLAT OF PLAT OF TRACTS A-1 AND A-2, ADOBE WELLS SUBDIVISION, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO, ON FEBRUARY 24, 2005, IN PLAT BOOK 2005C, PAGE 77, AS DOCUMENT NO. 2005026221; AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT AN NGS BENCHMARK FOR A 3" BRASS CAP MARKED REEVES 2 FOUND AT THE EAST EDGE OF A CONCRETE DRAINAGE CHANNEL STRUCTURE, THENCE N.66°28'16"W., 19,058.32 FEET TO A 5/8" IRON ROD FOUND WITH CAP 11184 FOR THE TRUE POINT OF BEGINNING AT THE SOUTHEAST CORNER OF THIS TRACT;

- THENCE S.43°18'52"W., 34.74 FEET TO A 5/8" IRON ROD FOUND WITH CAP 11184 FOR A CORNER OF THIS TRACT;
- THENCE S.38°37'12"W., 358.97 FEET TO A 1/2" IRON ROD SET CAP 23259 FOR THE SOUTHWEST CORNER OF THIS TRACT AT THE EAST RIGHT-OF-WAY OF IRVING BOULEVARD NW;
- THENCE ALONG THE SAID RIGHT-OF-WAY, AROUND THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 786.30 FEET, AN ARC LENGTH OF 205.62 FEET, THROUGH A CENTRAL ANGLE OF 14°58'58" AND WHOSE LONG CHORD BEARS N.34°08'01"W., A DISTANCE OF 205.03 FEET TO A 1/2" IRON ROD SET CAP 23259 FOR THE NORTHWEST CORNER OF THIS TRACT AND THE POINT OF CONTINOUS CURVATURE;
- THENCE AT THE SOUTHERLY RIGHT-OF-WAY OF EAGLE RANCH ROAD NW, AROUND THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 40.00 FEET, AN ARC LENGTH OF 58.24 FEET, THROUGH A CENTRAL ANGLE OF 83°25'20" AND WHOSE LONG CHORD BEARS N.14°58'02"E., A DISTANCE OF 53.23 FEET TO A 1/2" IRON ROD SET CAP 23259 FOR THE POINT OF TANGENCY;
- THENCE ALONG THE SAID RIGHT-OF-WAY, N.56°40'32"E., 90.11 FEET TO A 5/8 " IRON ROD FOUND WITH CAP 11184 FOR A
- THENCE ALONG THE SAID RIGHT-OF-WAY, AROUND THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 628.00 FEET, AN ARC LENGTH OF 208.05 FEET, THROUGH A CENTRAL ANGLE OF 18°58'55" AND WHOSE LONG CHORD BEARS N.47°11'36"E., A DISTANCE OF 207.10 FEET TO A 5/8 " IRON ROD FOUND WITH CAP 11184 FOR A THE NORTHEAST CORNER OF THIS TRACT;
- THENCE LEAVING THE SAID RIGHT-OF-WAY, S.49°06'04"E., 161.34 FEET TO THE TRUE POINT OF BEGINNING, CONTAINING 1.57 ACRES OF LAND, MORE OR LESS.

SOILS

THE ON-SITE SOILS INCLUDE BLUEPOINT-KOKAN ASSOCIATION (BKD) PER THE NATIONAL RESOURCES CONSERVATION SERVICE (NRCS) WEB SOIL SURVEY. BKD IS RATED HYDROLOGIC GROUP A. THE INFILTRATION RATE IS 5 MINUTES PER INCH, ACCORDING TO THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON CONSULTANTS, INC., DATED APRIL 21, 2021, PROJECT NUMBER 661215073.

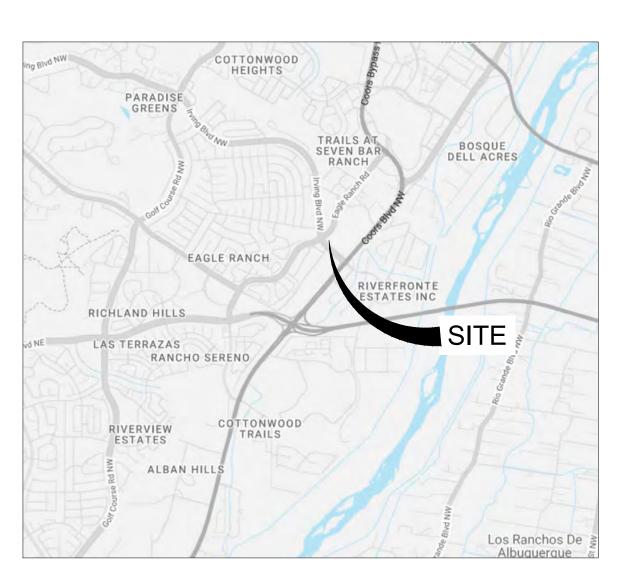
PROJECT DESCRIPTION

THE 1.57-ACRE SITE WILL CONSIST OF A CIRCLE K CONVENIENCE STORE, GAS PUMPS, PAVED DRIVE AISLES, AND PAVED

GENERAL COVER SHEET NOTES

- A. TOPOGRAPHIC BOUNDARY SURVEY, INCLUDING PROPERTY LINES, LEGAL DESCRIPTION, EXISTING UTILITIES, SITE TOPOGRAPHY WITH SPOT ELEVATIONS, OUTSTANDING PHYSICAL FEATURES AND EXISTING STRUCTURE LOCATIONS WAS PROVIDED BY THE FOLLOWING COMPANY, AS A CONTRACTOR TO THE SELLER/OWNER:
 - TOPOGRAPHY/BOUNDARY: PRECISION LAND SURVEYORS
 - 4419 KINGSTON ROAD
 - LAS CRUCES, NM 88012
- MATRIX DESIGN GROUP AND ITS ASSOCIATES WILL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE SURVEY OR FOR DESIGN ERRORS OR OMISSIONS RESULTING FROM SURVEY
- C. ALL PHASES OF SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE OWNER DEVELOPER SITE WORK SPECIFICATIONS.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, UNDERGROUND STORAGE TANKS, PAVING AND ANY OTHER EXISTING IMPROVEMENTS AS SHOWN ON DEMOLITIONS PLANS. REFER SITE WORK SPECIFICATIONS.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIAL RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH
- F. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASE OF THIS PROJECT.
- G. WARRANTY/DISCLAIMER: THE DESIGN REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTION SAND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.
- H. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH THE GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR **NEAR THE CONSTRUCTION**
- WETLANDS NOTE: ANY DEVELOPMENT, EXCAVATION, CONSTRUCTION, OR FILLING IN A DESIGNATED WETLAND IS SUBJECT TO LOCAL, STATE AND FEDERAL APPROVALS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND/OR RESTRICTIONS AND ANY VIOLATION WILL BE SUBJECT TO FEDERAL PENALTY. THE CONTRACTOR SHALL HOLD THE OWNER/DEVELOPER, THE ENGINEER AND THE LOCAL GOVERNING AGENCIES HARMLESS AGAINST SUCH VIOLATION.
- RESIDENT ENGINEERS SERVICES: UPON WRITTEN REQUEST, RESIDENT ENGINEERING SERVICES SHALL BE PROVIDED BY THE ENGINEERS (ON A TIME AND FREQUENCY BASIS) ACCEPTABLE TO THE CITY ENGINEER FOR IMPROVEMENTS TO PUBLIC WATER MAINS, PUBLIC SEWER, AND CITY STREETS. AT THE COMPLETION OF CONSTRUCTION, THE ENGINEER SHALL CERTIFY THE CONSTRUCTION TO BE IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS, THIS WORK WILL BE AT THE OWNER/DEVELOPER'S DIRECT EXPENSE AND SHALL BE COORDINATED WITH MATRIX DESIGN GROUP. IT WILL BE THE CONSTRUCTION CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE RESIDENT ENGINEER OF ANY PRE-CONSTRUCTION / CONSTRUCTION CONFERENCES AND ANY PUBLIC CONSTRUCTION 24 HOURS PRIOR TO SAID
- K. PRIOR TO CONSTRUCTION WITHIN ANY EXISTING PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE AUTHORITY HAVING JURISDICTION.
- ALL CONSTRUCTION IN STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT RESIDENT ENGINEER.
- M. CALCULATIONS AND QUANTITIES SHOWN ON THE PLANS ARE FOR ENGINEERS ESTIMATES ONLY, FOR THE SOLE PURPOSES OF DETERMINING PLAN CHECK AND PERMIT FEES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING HIS / HER OWN QUANTITIES FOR BIDDING AND
- N. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF PORCHES, RAMPS, VESTIBULE, SLOPED PAVING, TRUCK DOCKS, BUILDING UTILITY ENTRANCE LOCATIONS, AND PRECISE BUILDING DIMENSIONS.

INDEX	OF SHEETS S	SHEET No		
TS01	TITLE SHEET	1		
GR01	EXISTING CONDITIONS	2		
GR02	PROPOSED CONDITIONS	3		
GR03	STORMWATER QUALITY POND PLAN & PROFI	ILE 4		



VICINITY MAP N.T.S.

CONSULTANTS: 2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920 PHONE: (719) 575-0100 FAX: (719) 575-0208

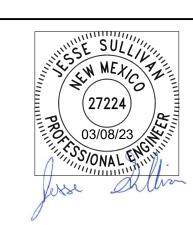
LAND DEVELOPMENT 950 S. CHERRY STREET, SUITE 512

DENVER, CO 80246 OWNER/DEVELOPER



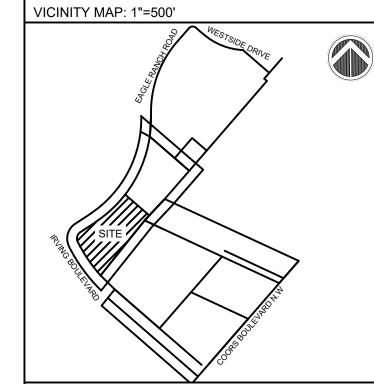
ROCKY MOUNTAINS DIVISION 5500 S QUEBEC STREET, SUITE 100 GREENWOOD VILLAGE, CO 80111

SEAL



PRELIMINARY - NOT FOR CONSTRUCTION FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC

VICINITY MAP: 1"=500'



CIRCLE K STORES INC.

CONCEPTUAL GRADING & DRAINAGE PLAN

9620 EAGLE RANCH ROAD NW ALBUQUERQUE, NM 87114

REVISION HISTORY: NO. DATE DESCRIPTION DRAWING INFORMATION: PROJECT NO: 21.1207.001 DRAWN BY: RPD

SHEET TITLE:

CHECKED BY: NMS

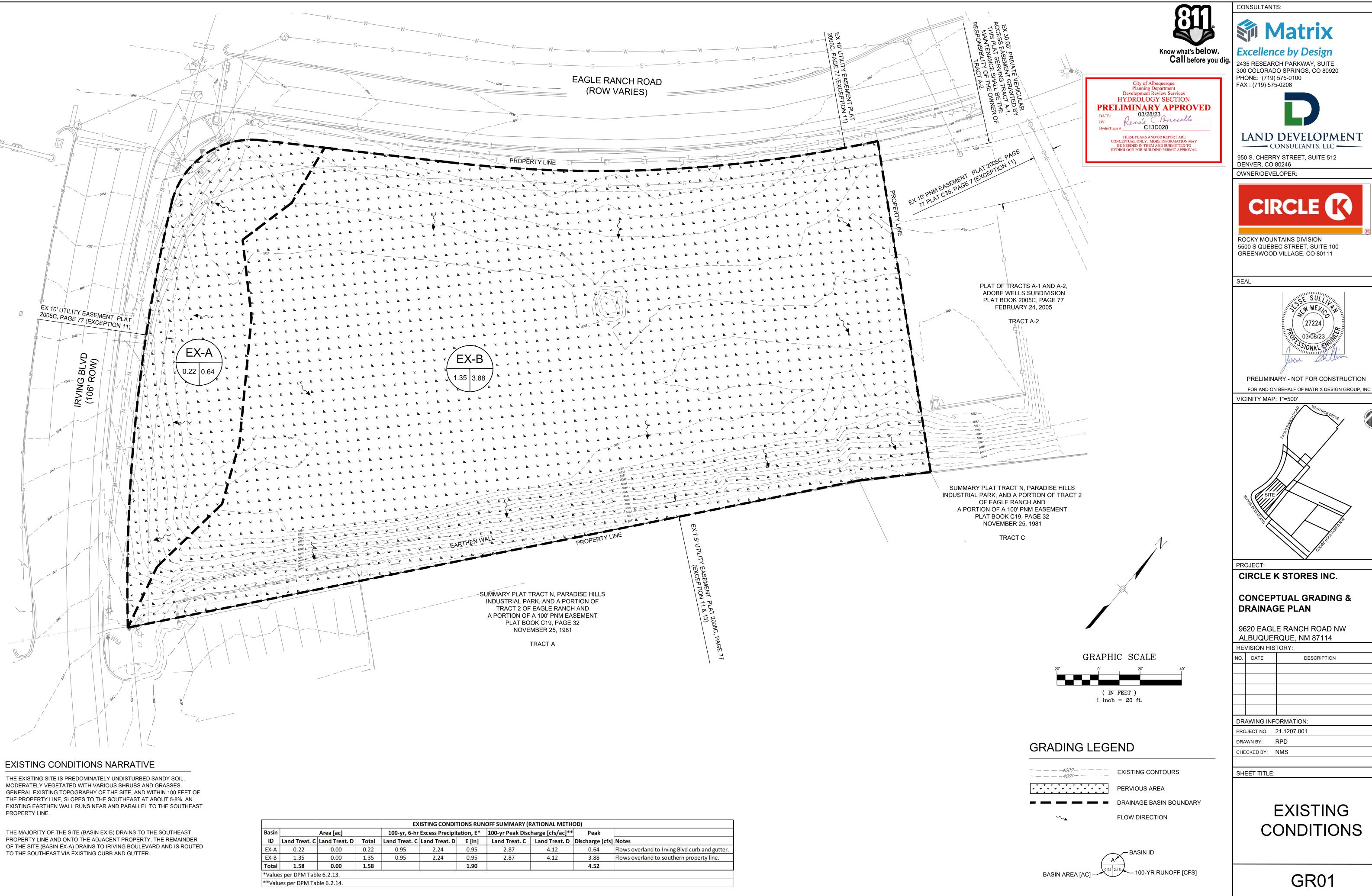
TITLE SHEET

TS01

SHEET 1 OF 4

MARCH 2023

DATE:



CONSULTANTS:

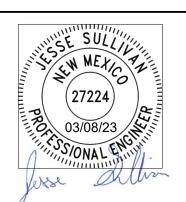
300 COLORADO SPRINGS, CO 80920



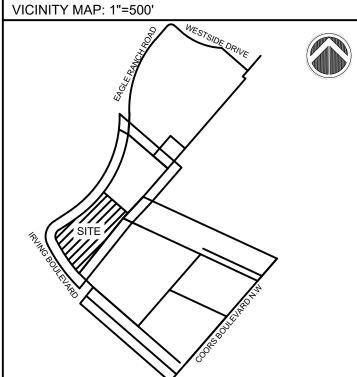
950 S. CHERRY STREET, SUITE 512 **DENVER, CO 80246**



ROCKY MOUNTAINS DIVISION 5500 S QUEBEC STREET, SUITE 100 GREENWOOD VILLAGE, CO 80111



PRELIMINARY - NOT FOR CONSTRUCTION



CIRCLE K STORES INC.

CONCEPTUAL GRADING & DRAINAGE PLAN

9620 EAGLE RANCH ROAD NW ALBUQUERQUE, NM 87114

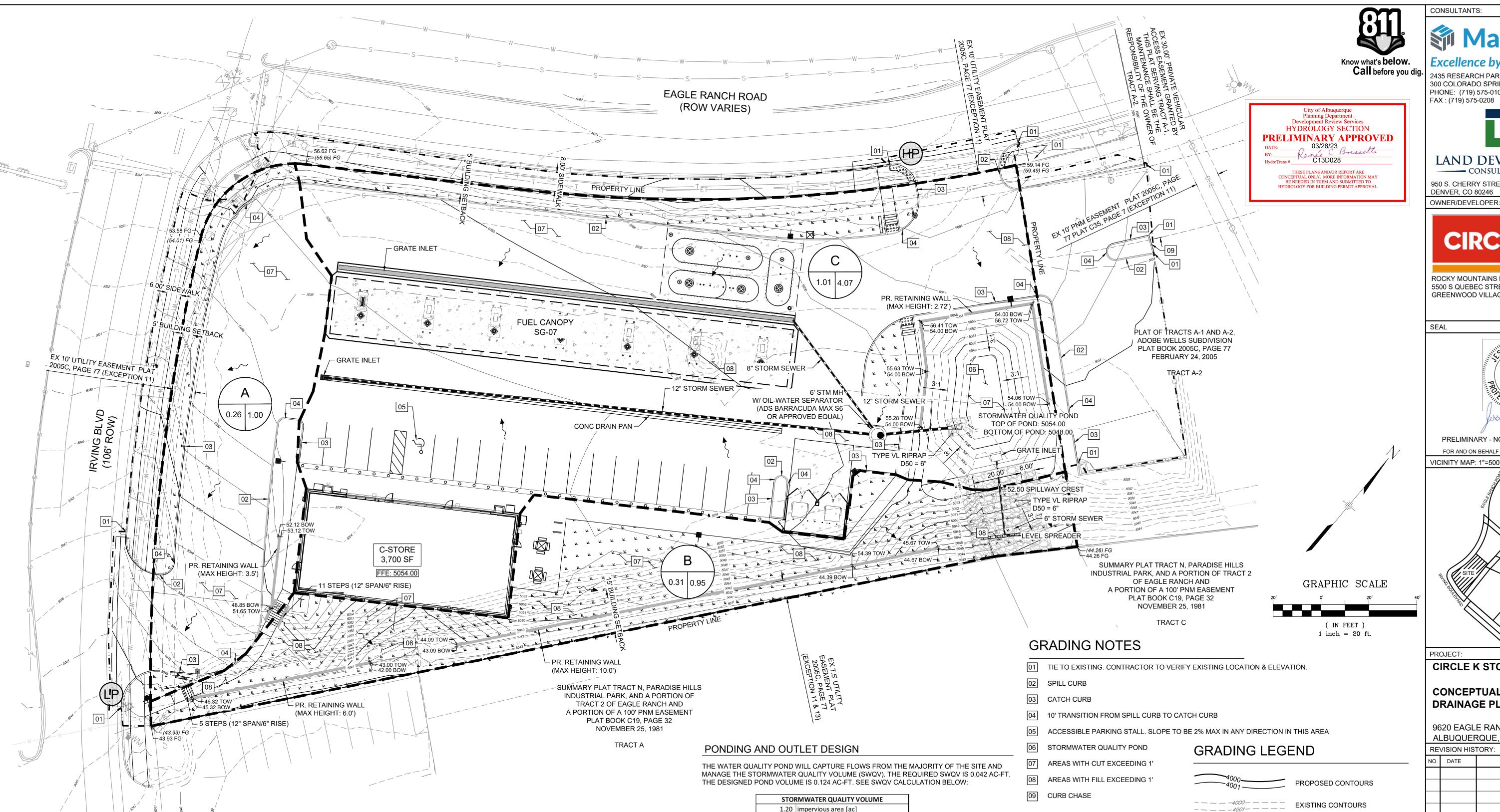
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RE'	VISION HI	STORY:						
NO.	DATE	DESCRIPTION						
DRAWING INFORMATION:								
PROJECT NO:		21.1207.001						
DRA	WN BY:	RPD						
СНЕ	CKED BY:	NMS						

EXISTING CONDITIONS

GR01

SHEET 2 OF 4

MARCH 2023 DATE:



PROPOSED CONDITIONS NARRATIVE

THE PROPOSED SITE WILL TYPICALLY DRAIN FROM NORTHWEST TO SOUTHEAST. THE MAJORITY OF SITE RUNOFF (FROM BASIN C) WILL BE ROUTED, VIA CONCRETE PANS AND STORM SEWER, TO THE PROPOSED WATER QUALITY POND IN THE NORTHEAST PORTION OF THE SITE.

RUNOFF FROM BASIN A (Q100 = 1.00 CFS) WILL FLOW SOUTH/SOUTHEAST TO IRVING BOULEVARD. THE ANTICIPATED 100-YEAR FLOW IS SIGNIFICANTLY LESS THAN THE ALLOWABLE DISCHARGE (6.8 CFS), THEREFORE, NO DOWNSTREAM IMPACTS ARE ANTICIPATED.

RUNOFF FROM BASIN B (Q100 = 0.95 CFS) WILL FLOW SOUTHEAST TO THE SOUTHEASTERN PROPERTY LINE, WHERE IT ENTERS THE ADJACENT PROPERTY. THE ANTICIPATED 100-YEAR FLOW IS SIGNIFICANTLY LESS THAN THE EXISTING RUNOFF (EXQ100 = 3.88 CFS) TO THE SOUTHEASTERN PROPERTY LINE, THEREFORE NO DOWNSTREAM IMPACTS ARE ANTICIPATED.

RUNOFF FROM BASIN C (Q100 = 4.07 CFS, POND DISCHARGE Q100 = 0.80 CFS) IS ROUTED VIA CONCRETE PANS AND STORM SEWER TO THE WATER QUALITY POND LOCATED IN THE NORTHEAST PORTION OF THE SITE. THE POND IS DESIGNED TO INFILTRATE THE STORMWATER QUALITY VOLUME (SWQV), TAKING ADVANTAGE OF THE EXISTING SANDY SOILS FOUND ON-SITE. THE POND INCLUDES A GRATE INLET SET AT AN ELEVATION ABOVE THE SWQV WATER SURFACE ELEVATION. THE GRATE INLET WILL DISCHARGE (Q100 = 0.80 CFS) VIA A 6" STORM SEWER. TO THE SOUTHEASTERN PROPERTY LINE. A LEVEL-SPREADER WILL DISSIPATE THE FLOW FROM THE STORM SEWER IN ORDER TO MITIGATE THE EROSIVE EFFECT OF CONCENTRATED FLOWS. IN THE EVENT THAT THE POND OVERTOPS, THE STORMWATER WILL BE ROUTED VIA AN EMERGENCY SPILLWAY AND SOIL RIPRAP RUNDOWN TO THE SOUTHEASTERN PROPERTY LINE. THE ANTICIPATED 100-YEAR FLOW ROUTED THROUGH THE POND IS SIGNIFICANTLY LESS THAN THE EXISTING 100-YEAR RUNOFF THAT FLOWS ONTO THE SOUTHEASTERN PROPERTY LINE (EXQ100 = 3.88 CFS). THEREFORE, NO DOWNSTREAM IMPACTS ARE ANTICIPATED. NOTE THAT THE RUNOFF FROM BASINS B AND C ARE NOT COMBINED BECAUSE THE PEAK FLOWS FROM EACH BASIN WILL EXIT THE SITE AT DIFFERENT TIMES DUE TO THE TIME THE POND TAKES TO

DOWNSTREAM CAPACITY

**Values per DPM Table 6.2.14.

BASED ON THE NORTH COORS DRAINAGE MANAGEMENT PLAN MIDDLE AREA, PREPARED BY SMITH ENGINEERING COMPANY, DATED FEBRUARY 1997, THE SITE CAN FREELY DISCHARGE 4.32 CFS/ACRE. AT 1.58 ACRES, THE ALLOWABLE SITE DISCHARGE IS 6.8 CFS. THE ANTICIPATED TOTAL DISCHARGE FROM THE SITE IS 2.75 CFS IN THE PROPOSED CONDITIONS, SO NO DOWNSTREAM CAPACITY CONCERNS ARE ANTICIPATED BASED ON THE DEVELOPMENT OF THE SITE.

FURTHERMORE, AS SHOWN IN THE EXISTING CONDITIONS GRADING PLAN, MOST OF THE EXISTING SITE RUNOFF (Q100 = 3.88 CFS) FLOWS ONTO THE ADJACENT SITE TO THE SOUTHEAST. BASED ON STREET VIEW AND SATELLITE IMAGERY, IT APPEARS THE ADJACENT PROPERTY CAN HANDLE THE OFFSITE FLOW WITHOUT EXPERIENCING PROPERTY DAMAGE. THE ANTICIPATED RUNOFF FROM THE SITE IN THE PROPOSED CONDITIONS IS SIGNIFICANTLY LOWER, THEREFORE, NO DOWNSTREAM CAPACITY CONCERNS ARE ANTICIPATED BASED ON THE DEVELOPMENT OF THIS SITE.

THE SWQV IS ANTICIPATED TO INFILTRATE THROUGH THE POND BOTTOM DUE TO THE SANDY SOILS. BASED ON THE INFILTRATION RATE (5 MINUTES PER INCH) DETERMINED IN THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON CONSULTANTS, INC., DATED APRIL 21, 2021, THE SWQV DRAINS IN 2.31 HOURS. TO BE CONSERVATIVE, A DRAIN

0.42 inches (for new development site)

THE POND INCLUDES A GRATE INLET SET AT 4051.9, ABOVE THE MAXIMUM SWQV WATER SURFACE ELEVATION (4050.40). THE GRATE INLET ROUTES FLOWS, VIA A 6" STORM SEWER AND LEVEL SPREADER, TO THE SOUTHEASTERN PROPERTY LINE.

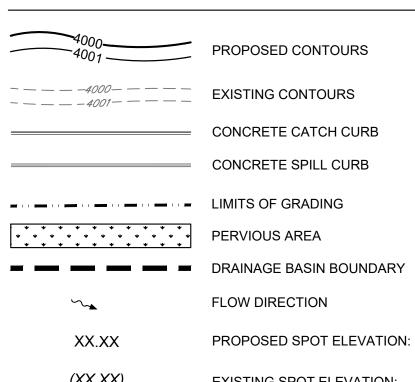
IN THE EVENT THAT THE POND OVERTOPS, THE FLOW WILL BE ROUTED VIA AN EMERGENCY SPILLWAY AND SOIL RIPRAP RUNDOWN TO THE SOUTHEASTERN PROPERTY LINE. THE SPILLWAY CREST ELEVATION IS SET AT 4052.5.

	PROPOSED CONDITIONS RUNOFF SUMMARY (RATIONAL METHOD)									
Basin	Area [ac] 100-yr, 6-hr Excess Precipitation, E* 100-yr Peak Discharge [cfs/ac]**			harge [cfs/ac]**	Peak					
ID	Land Treat.	C Land Treat. D	Total	Land Treat. C	Land Treat. D	E [in]	Land Treat. C	Land Treat. D	Discharge	Notes
Α	0.05	0.21	0.26	0.95	2.24	1.98	2.87	4.12	1.00	Flows routed via onsite curb and gutter to Irving Blvd. curb and gutter.
В	0.25	0.06	0.31	0.95	2.24	1.18	2.87	4.12	0.95	Flows overland to southern property line.
С	0.08	0.94	1.01	0.95	2.24	2.14	2.87	4.12	4.07	Flows routed via concrete pans and storm sewer to WQ infiltration pond.
								,	0.80	Flows routed through grate inlet in pond and 6" storm sewer discharges to southeastern property line through level spreader.
Total	0.38	1.20	1.58			5.31			2.75	
*Value	*Values per DPM Table 6.2.13.									

TIME OF 7 HOURS IS ASSUMED.

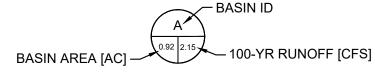
DRODOSED CONDITIONS DIMOSE STIMMARY (PATIONAL METHOD)

1,829.5 SWQV [cf] 0.042 SWQV [ac-ft]



(XX.XX)**EXISTING SPOT ELEVATION:**

FG = FINISHED GROUND FL = FLOWLINE TBC = TOP BACK OF CURB FFE = FINISHED FLOOR ELEVATION GB = GRADE BREAK HP = HIGH POINT LP = LOW POINT



Excellence by Design

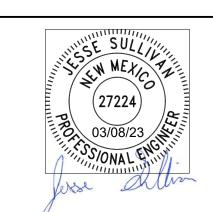




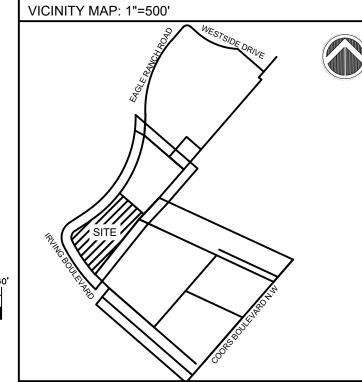
950 S. CHERRY STREET, SUITE 512 DENVER, CO 80246



ROCKY MOUNTAINS DIVISION 5500 S QUEBEC STREET, SUITE 100 GREENWOOD VILLAGE, CO 80111



PRELIMINARY - NOT FOR CONSTRUCTION FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC



PROJECT:

CIRCLE K STORES INC.

CONCEPTUAL GRADING & DRAINAGE PLAN

9620 EAGLE RANCH ROAD NW VIDUOLIEDOLIE NIM 07114

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REVISION HISTORY:						
NO.	DATE	DESCRIPTION	BY			
DRAWING INFORMATION:						
PRC	JECT NO:	21.1207.001				
DRAWN BY: RPD						
CHECKED BY: NMS						
SHEET TITLE:						

PROPOSED **CONDITIONS**

GR02

SHEET 3 OF 4

MARCH 2023 DATE:

FILL UP TO THE LEVEL OF THE GRATE INLET.







2435 RESEARCH PARKWAY, SUITE 300 COLORADO SPRINGS, CO 80920 PHONE: (719) 575-0100



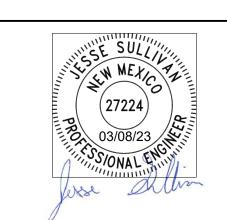
950 S. CHERRY STREET, SUITE 512 DENVER, CO 80246

OWNER/DEVELOPER:



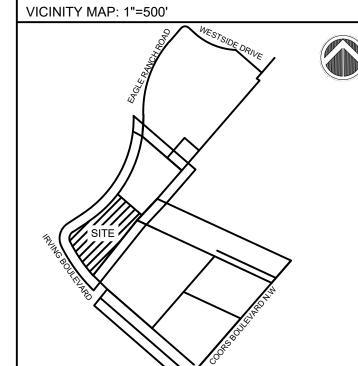
ROCKY MOUNTAINS DIVISION 5500 S QUEBEC STREET, SUITE 100 GREENWOOD VILLAGE, CO 80111

SEAL



PRELIMINARY - NOT FOR CONSTRUCTION

FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC VICINITY MAP: 1"=500'



THESE PLANS AND/OR REPORT ARE CONCEPTUAL ONLY. MORE INFORMATION MAY BE NEEDED IN THEM AND SUBMITTED TO HYDROLOGY FOR BUILDING PERMIT APPROVAL.

CIRCLE K STORES INC.

CONCEPTUAL GRADING & DRAINAGE PLAN

9620 EAGLE RANCH ROAD NW ALBUQUERQUE, NM 87114

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PROJECT NO: 21.1207.001							

DRAWN BY: RPD CHECKED BY: NMS

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REVISION HISTORY:

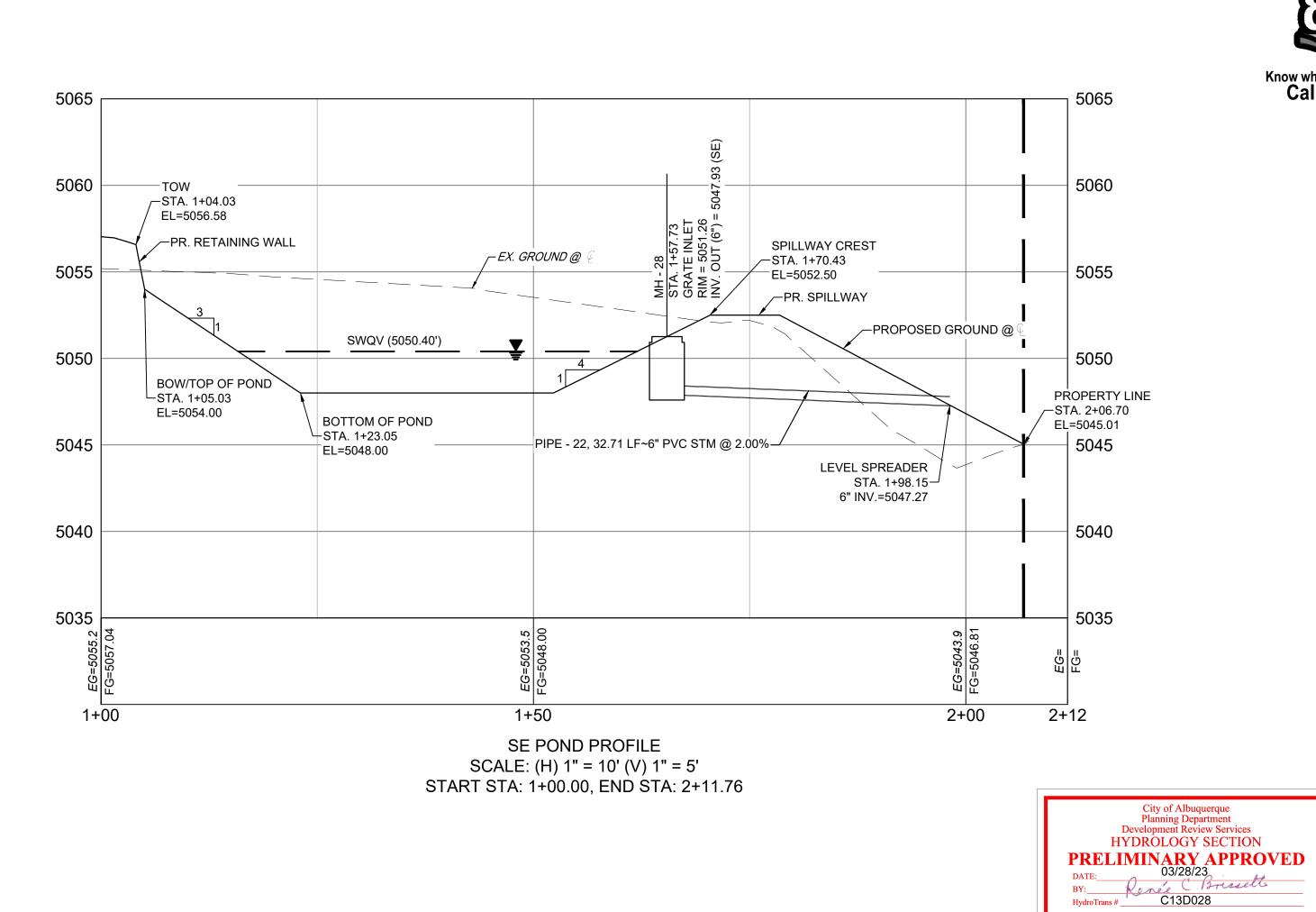
STORMWATER QUALITY POND PLAN & PROFILE

GR03

SHEET 4 OF 4

MARCH 2023

DATE:



5065 5060 TOP OF POND STA. 1+82.39— PROPERTY LINE -PROPOSED GROUND @ /--STA. 1+84.45 TOP OF POND EL=5054.00 EL=5054.08 -STA. 1+29.44 5055 EX. GROUND @ -EL=5054.00 SWQV (5050.40') 5050 PR. FES OUTLET └─STA. 1+40.62 12" INV.=5050.41 └_PIPE - 16, 29.35 LF~12" PVC STM @ 0.50%. 5045 └PIPE - 15, 232.04 LF~12" PVC STM @ 0.33% 5040

5065 5060 5055 5050 5045 1+50 1+00 1+91 SW POND PROFILE

SCALE: (H) 1" = 10' (V) 1" = 5' START STA: 1+00.00, END STA: 1+91.02

√PIPE - 16 GRÁTE INLET $\overline{\downarrow}$ 29.3 LF~12" PVC STM $_{-}$ 6' STM MH W/ OIL-WATER SEPARATOR (ADS BARRACUDA MAX S6 OR APPROVED EQUAL) 52.50 SPILLWAY CREST -PIPE - 15 232.0 LF~12" PVC STM PIPE - 22, 32.7 LF~6" PVC STM TYPE VL RIPRAP 5051 LEVEL SPREADER -(44.26) EG -44.26 FG GRADING LEGEND PROPOSED CONTOURS EXISTING CONTOURS CONCRETE CATCH CURB CONCRETE SPILL CURB GRAPHIC SCALE LIMITS OF GRADING FLOW DIRECTION XX.XXPROPOSED SPOT ELEVATION: (IN FEET) 1 inch = 10 ft.

PR. RETAINING WALL

(MAX HEIGHT: 2.72')

∕−56.41 TÓW

`_54.00 BOW ∕

55.63 TOW —

54.00 BOW —

54.00 BOW-

55.28 TOW =

PIPE - 17, 59.6 LF~8" PVC STM

L5052-+

-5049-

-STORMWATER QUALITY POND TOP OF POND: 5054.00

BOTTOM OF POND: 5048.00

5048

✓ TYPE VL RIPRAP ¹

D50 = 6"

54.00 BOW-

`56.72 TOW*□*

SE POND ALIGNMENT

\ 54.06 TOW→

√54.00 BOW —

- PROPERTY LINE (TYP)

SW POND ALIGNMENT