CITY OF ALBUQUERQUE

Planning Department Alan Varela, Interim Director



Mayor Timothy M. Keller

February 1, 2022

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

RE: Dutch Brothers - 528 3615 Hwy 528 NW Grading & Drainage Plans Engineer's Stamp Date: 01/31/22 Hydrology File: A14D019

Dear Mr. Bohannan:

PO Box 1293 Based upon the information provided in your submittal received 10/14/2021, the Grading & Drainage Plan is approved for Building Permit, Grading Permit, and for action by the DRB on Site Plan for Building Permit. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

Albuquerque

PRIOR TO CERTIFICATE OF OCCUPANCY:

 NM 87103
 Engineer's Certification, per the DPM Part 6-14 (F): Engineer's Certification Checklist For Non-Subdivision is required.

www.cabq.gov

- 2. Please provide the Drainage Covenant with Exhibit A for the stormwater quality pond per Article 6-15(C) of the DPM prior to Permanent Release of Occupancy. Please submit the original copies along with the \$25.00 recording fee check made payable to Bernalillo County to Marion G. Velasquez (mgvelasquez@cabq.gov) on the 4th floor of Plaza de Sol.
- 3. Please provide a private Drainage Easement for the stormwater quality pond. Please submit the original copies along with the \$25.00 recording fee check made payable to Bernalillo County to Marion G. Velasquez (<u>mgvelasquez@cabq.gov</u>) on the 4th floor of Plaza de Sol.

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, <u>jhughes@cabq.gov</u>, 924-3420) 14 days prior to any earth disturbance.

CITY OF ALBUQUERQUE

Planning Department Alan Varela, Interim Director



Mayor Timothy M. Keller

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

Sincerely,

Renée C. Brissette

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

PO Box 1293

Albuquerque

NM 87103

www.cabq.gov

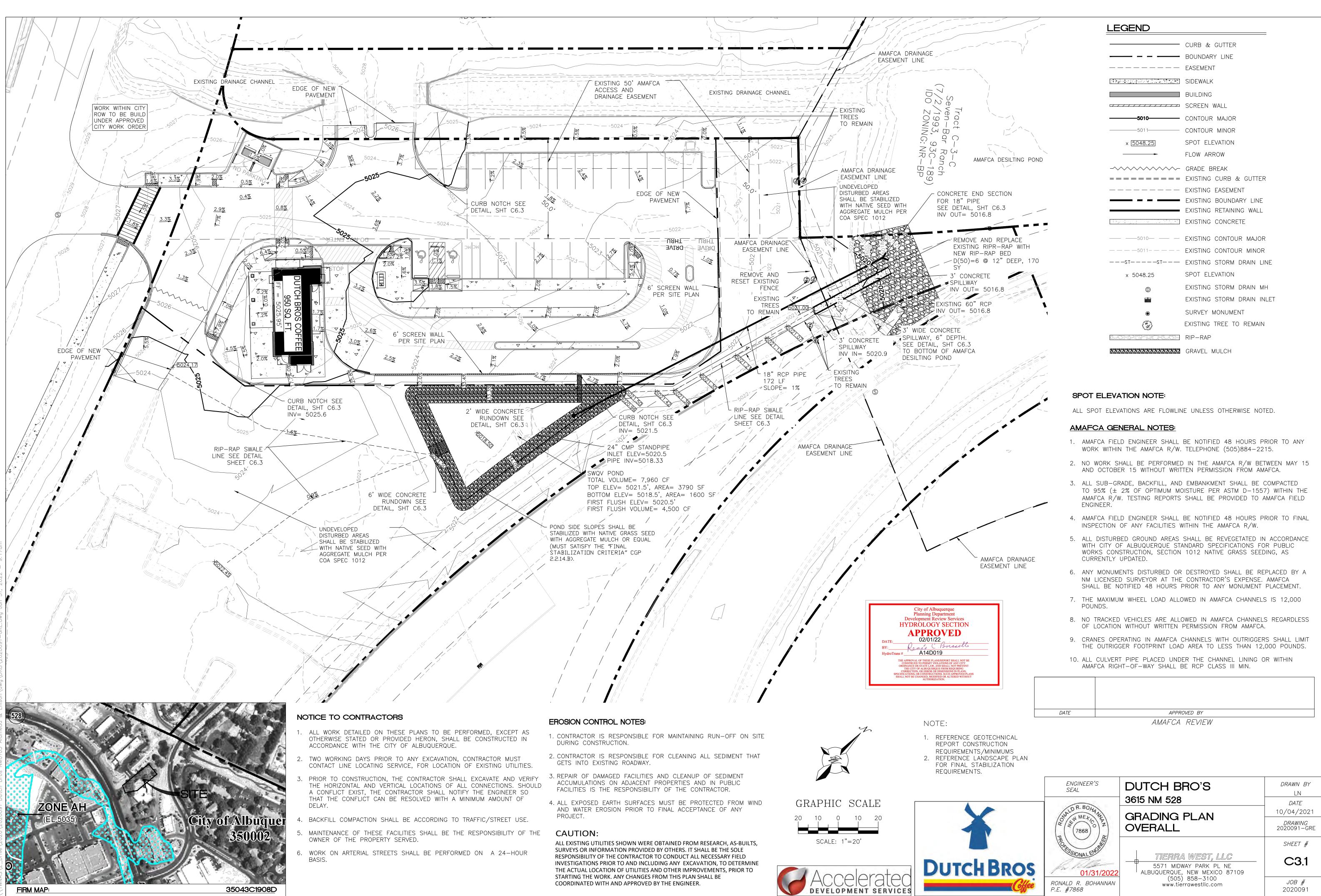


City of Albuquerque

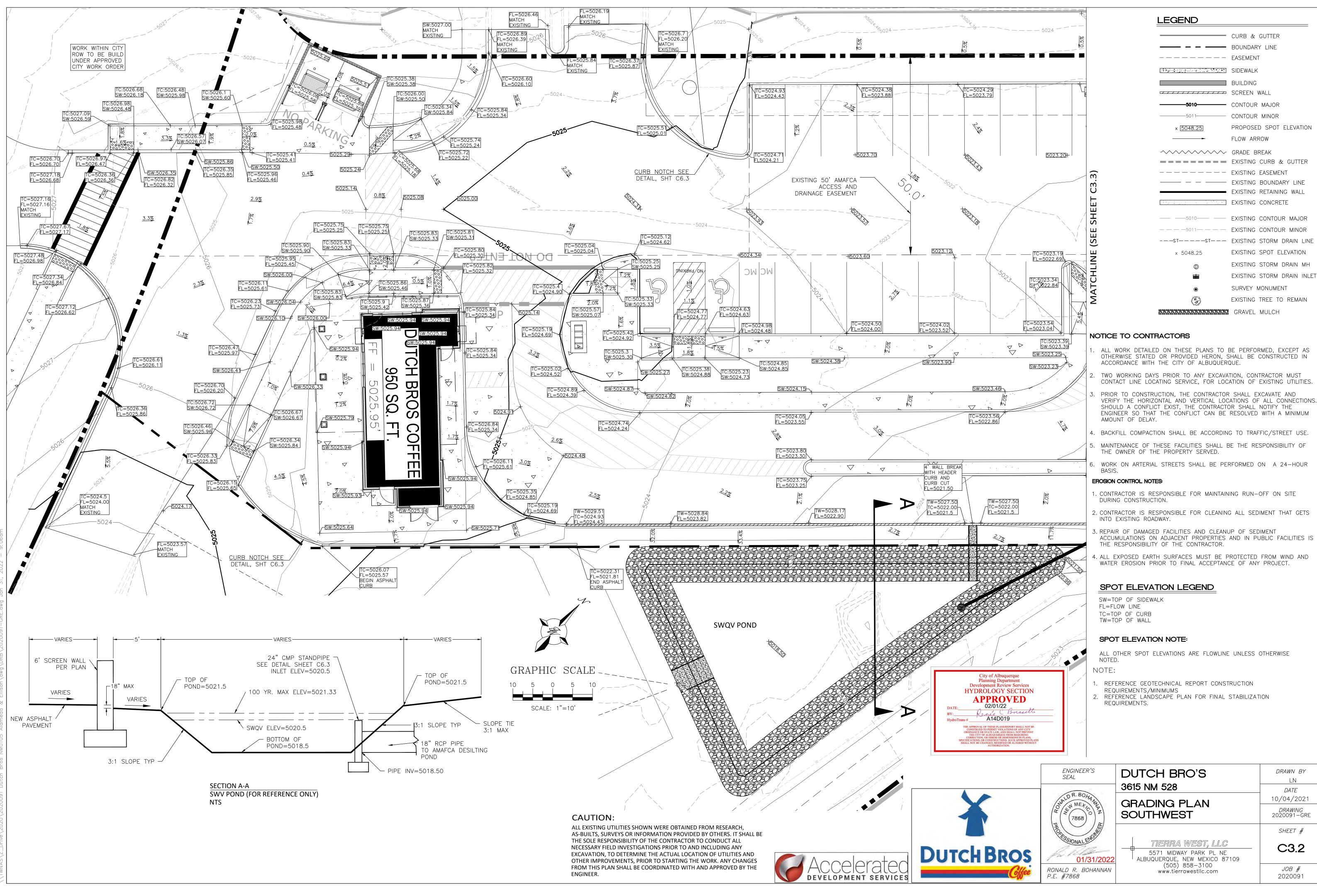
Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

Project Title: Dutch Brothers -528	Building Permit #:	Hydrology File #: A14D019
		Work Order#:
Legal Description: Lots(s) Tract C-4-A Pla		
City Address: 3615 Hwy 528 NW Albuquer		
		Contact: Luis Noriega
Address: <u>5571 Midway Park Place NE Albuque</u>	•	
Phone#: <u>505-858-3100</u>	Fax#:505-858-1118	E-mail: <u>Inoriega@tierrawestllc.com</u>
Other Contact:		Contact:
Address:		
		E-mail:
TYPE OF DEVELOPMENT:PLAT	Γ (# of lots) RESIDEN	NCE DRB SITE _X_ ADMIN SITE
IS THIS A RESUBMITTAL? Yes	<u>X</u> No	
DEPARTMENT TRANSPORTATION	X HYDROLOGY/D	RAINAGE
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERTIFICATIO PAD CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE REPORT DRAINAGE MASTER PLAN FLOODPLAIN DEVELOPMENT PERMIT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAYOUT (TC	X BU DN CE PR PR SIT X SIT FIN APPLIC SIA FO GR	OF APPROVAL/ACCEPTANCE SOUGHT: IILDING PERMIT APPROVAL RTIFICATE OF OCCUPANCY ELIMINARY PLAT APPROVAL TE PLAN FOR SUB'D APPROVAL TE PLAN FOR BLDG. PERMIT APPROVAL NAL PLAT APPROVAL AV RELEASE OF FINANCIAL GUARANTEE UNDATION PERMIT APPROVAL ADING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS) STREET LIGHT LAYOUT OTHER (SPECIFY) PRE-DESIGN MEETING?	SO PA GR WC CL FL OT	-19 APPROVAL VING PERMIT APPROVAL ADING/ PAD CERTIFICATION ORK ORDER APPROVAL OMR/LOMR OODPLAIN DEVELOPMENT PERMIT HER (SPECIFY)
DATE SUBMITTED: 10/14/2021	By: <u>Luis Noriega</u>	
COA STAFF:	ELECTRONIC SUBMITTAL R	ECEIVED:
	FEE PAID:	



EGEND	
	CURB & GUTTER
	BOUNDARY LINE
	EASEMENT
	SIDEWALK
	BUILDING
	SCREEN WALL
	CONTOUR MAJOR
	CONTOUR MINOR
x 5048.25	SPOT ELEVATION
	FLOW ARROW
	GRADE BREAK
	EXISTING CURB & GUTTER
	EXISTING EASEMENT
	EXISTING BOUNDARY LINE
	EXISTING RETAINING WALL
	EXISTING CONCRETE
5010	EXISTING CONTOUR MAJOR
— — — — 5011- — — — –	EXISTING CONTOUR MINOR
STST	EXISTING STORM DRAIN LINE
x 5048.25	SPOT ELEVATION
D	EXISTING STORM DRAIN MH
H	EXISTING STORM DRAIN INLET
۲	SURVEY MONUMENT
	EXISTING TREE TO REMAIN
 840743407624624274	RIP-RAP
628888888888888888888	GRAVEL MULCH



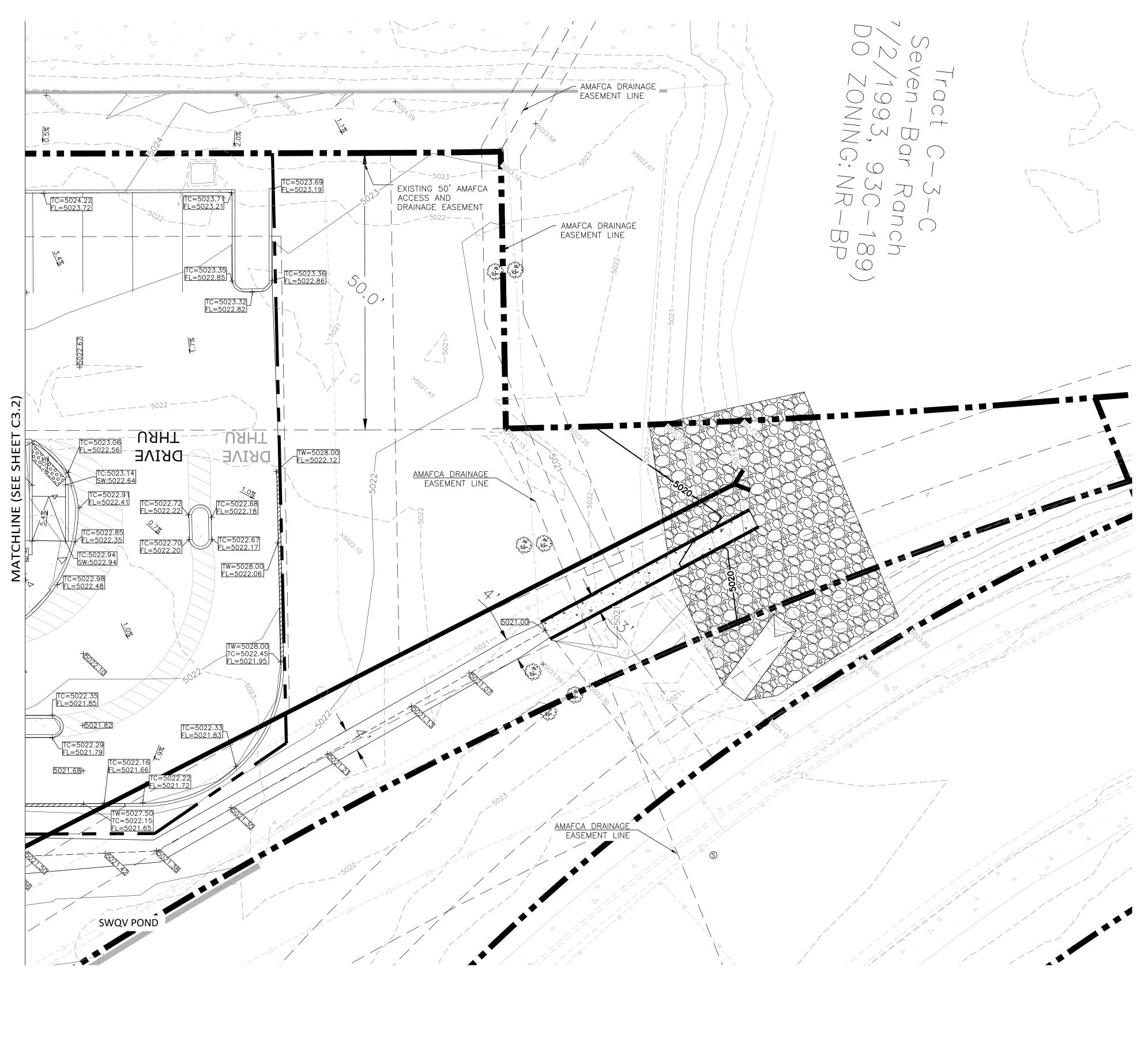
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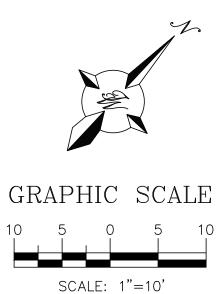
DATE 10/04/2021 *DRAWING* 2020091–GRE

SHEET #

C3.2

JOB # 2020091





AMAFCA GENERAL NOTES:

- WORK WITHIN THE AMAFCA R/W. TELEPHONE (505)884-2215.
- AND OCTOBER 15 WITHOUT WRITTEN PERMISSION FROM AMAFCA.
- ENGINEER.
- INSPECTION OF ANY FACILITIES WITHIN THE AMAFCA R/W.
- CURRENTLY UPDATED.
- SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY MONUMENT PLACEMENT.
- POUNDS.
- OF LOCATION WITHOUT WRITTEN PERMISSION FROM AMAFCA.
- 10. ALL CULVERT PIPE PLACED UNDER THE CHANNEL LINING OR WITHIN AMAFCA RIGHT-OF-WAY SHALL BE RCP CLASS III MIN.





ALL EXISTING UTILITIES 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.



LEGEND CURB & GUTTER --------- BOUNDARY LINE ---- EASEMENT SIDEWALK BUILDING SCREEN WALL PROPOSED SPOT ELEVATION x 5048.25 -----FLOW ARROW GRADE BREAK = = = = = = = EXISTING CURB & GUTTER ---- EXISTING EASEMENT EXISTING BOUNDARY LINE EXISTING RETAINING WALL EXISTING CONCRETE ---- EXISTING CONTOUR MINOR ----ST---- EXISTING STORM DRAIN LINE EXISTING SPOT ELEVATION x 5048.25 EXISTING STORM DRAIN MH EXISTING STORM DRAIN INLET SURVEY MONUMENT EXISTING TREE TO REMAIN

1. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY

2. NO WORK SHALL BE PERFORMED IN THE AMAFCA R/W BETWEEN MAY 15

ALL SUB-GRADE, BACKFILL, AND EMBANKMENT SHALL BE COMPACTED TO 95% (\pm 2% OF OPTIMUM MOISTURE PER ASTM D-1557) WITHIN THE AMAFCA R/W. TESTING REPORTS SHALL BE PROVIDED TO AMAFCA FIELD

4. AMAFCA FIELD ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO FINAL

ALL DISTURBED GROUND AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, SECTION 1012 NATIVE GRASS SEEDING, AS

6. ANY MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED BY A NM LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE. AMAFCA

7. THE MAXIMUM WHEEL LOAD ALLOWED IN AMAFCA CHANNELS IS 12,000

8. NO TRACKED VEHICLES ARE ALLOWED IN AMAFCA CHANNELS REGARDLESS

9. CRANES OPERATING IN AMAFCA CHANNELS WITH OUTRIGGERS SHALL LIMIT THE OUTRIGGER FOOTPRINT LOAD AREA TO LESS THAN 12,000 POUNDS.

City of Albuquerque Planning Department Development Review Services HYDROLOGY SECTION APPROVED 02/01/22 BY: Renée Brissette HydroTrans # A14D019



1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE.

250508085603 RIP-RAP

- 2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, FOR LOCATION OF EXISTING UTILITIES.
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONNECTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 4. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
- 5. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- 6. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.
- EROSION CONTROL NOTES:
- 1. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- 2. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING ROADWAY.
- 3. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 4. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

SPOT ELEVATION LEGEND

SW=TOP OF SIDEWALK FL=FLOW LINE TC=TOP OF CURB TW=TOP OF WALL

SPOT ELEVATION NOTE:

ALL OTHER SPOT ELEVATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.

NOTE:

- 1. REFERENCE GEOTECHNICAL REPORT CONSTRUCTION
- REQUIREMENTS/MINIMUMS 2. REFERENCE LANDSCAPE PLAN FOR FINAL STABILIZATION REQUIREMENTS.





P.E. #7868

DUTCH BRO'S 3615 NM 528 GRADING PLAN NORTHEAST

TIERRA WEST, LLC

5571 MIDWAY PARK PL NE

ALBUQUERQUE, NEW MEXICO 87109

(505) 858-3100

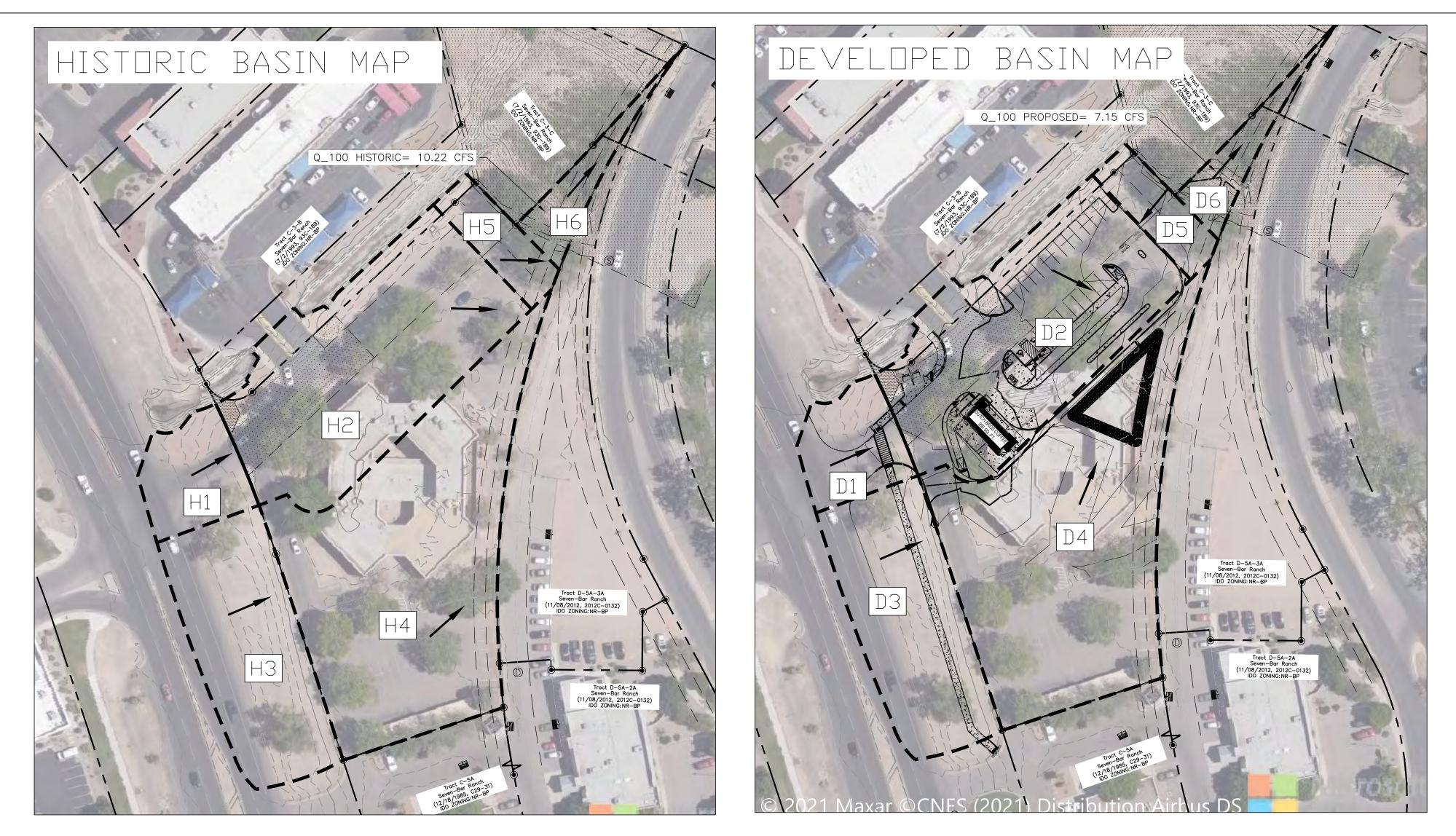
www.tierrawestllc.com

DRAWN BY LN DATE 10/04/2021 *DRAWING* 2020091–GRE

SHEET #



JOB # 2020091



Historic Conditions

Basin Descriptions							100-Year, 6-Hr								
Basin	Troct	Area	Area	Area	Treatmo	ent A	Treat	ment B	Trea	atment C	Treatm	ent D	Weighted E	Volume	Flow
ID	Tract	(sf)	(acres)	(sq miles)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs
H1	OFFSITE	7,634	0.18	0.00027	0%	0.000	0%	0.000	50%	0.088	50%	0.088	1.595	0.023	0.61
H2	1	34,754	0.80	0.00125	0%	0.000	0%	0.000	15%	0.120	85%	0.678	2.047	0.136	3.14
H3	OFFSITE	21,115	0.48	0.00076	0%	0.000	0%	0.000	70%	0.339	30%	0.145	1.337	0.054	1.57
H4	2	46,848	1.08	0.00168	0%	0.000	0%	0.000	15%	0.161	85%	0.914	2.047	0.183	4.23
H5	2	4,812	0.11	0.00017	0%	0.000	0%	0.000	50%	0.055	50%	0.055	1.595	0.015	0.39
H6	2	4,280	0.10	0.00015	0%	0.000	0%	0.000	100%	0.098	0%	0.000	0.950	0.008	0.28
Total		119,443	2.74	0.00428		0.000		0.000		0.861		1.881	1.835	0.419	10.22

Developed Conditions

Basin Descriptions							100-Year, 6-Hr								
Basin	Tract	Area	Area	Area	Treatment A	Т	reatment B		Treatment C		Treatment D		Weighted E	Volume	Flow
ID		(sf)	(acres)	(sq miles)	%	(acres)	%	(acres)	%	(acres)	%	(acres)	(in)	(ac-ft)	cfs
D1	OFFSITE	7,634	0.18	0.00027	0%	0.000	0%	0.000	45%	0.079	55%	0.096	1.660	0.024	0.62
D2	1	34,754	0.80	0.00125	0%	0.000	5%	0.040	10%	0.080	85%	0.678	2.036	0.135	3.11
D3	OFFSITE	21,115	0.48	0.00076	0%	0.000	0%	0.000	55%	0.267	45%	0.218	1.531	0.062	1.66
D4	2	46,848	1.08	0.00168	0%	0.000	5%	0.054	10%	0.108	85%	0.914	2.036	0.182	4.19
D5	2	4,812	0.11	0.00017	0%	0.000	0%	0.000	15%	0.017	85%	0.094	2.047	0.019	0.43
D6	2	4,280	0.10	0.00015	0%	0.000	0%	0.000	100%	0.098	0%	0.000	0.950	0.008	0.28
Total		119,443	2.74	0.00428		0.000		0.094		0.648		2.001	1.884	0.430	10.304

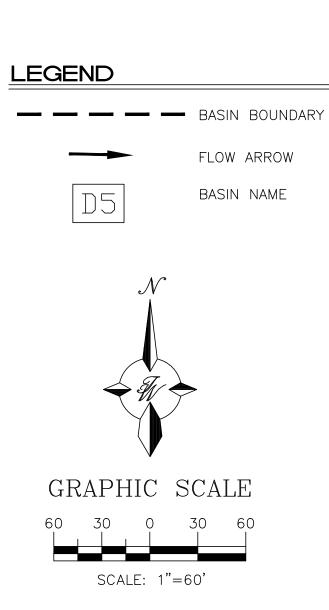
SWQV Pond Volume Calculation						
Area at Mid Depth	2,695	Sq. Ft.				
Depth of Pond	3	Ft.				
Total Volume	8,085	Cubic Ft.				

<u>Equations:</u>

Weighted E = Ea*Aa + Eb*Ab + Ec*Ac + Ed*Ad / (Total Area)Volume = Weighted E * Total Area $Flow = Qa^*Aa + Qb^*Ab + Qc^*Ac + Qd^*Ad$

Stormwater Quality Volume

Total Impervious Area = Retainage depth = 0.62" Per DPM Pg. 272 Retention Volume =



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ΣArea in "Treatment D" foot =0.0517 x area CF

SWQV					
Vol Required	Provided				
(cf)	(cf)				
216	0				
1,526	0				
490	0				
2,057	4,500				
210	0				
0	0				
4,500	4,500				

Excess Precipitation, E (in.)							
Zone 1	100-Year	10-Year					
Ea	0.44	0.08					
Eb	0.67	0.22					
Ec	0.99	0.44					
Ed	1.97	1.24					

Peak Discharge (cfs/acre)						
Zone 1	100-Year	10-Year				
Qa	1.29	0.24				
Qb	2.03	0.76				
Qc	2.87	1.49				
Qd	4.37	2.89				



SITE INFORMATION

FLOW ARROW

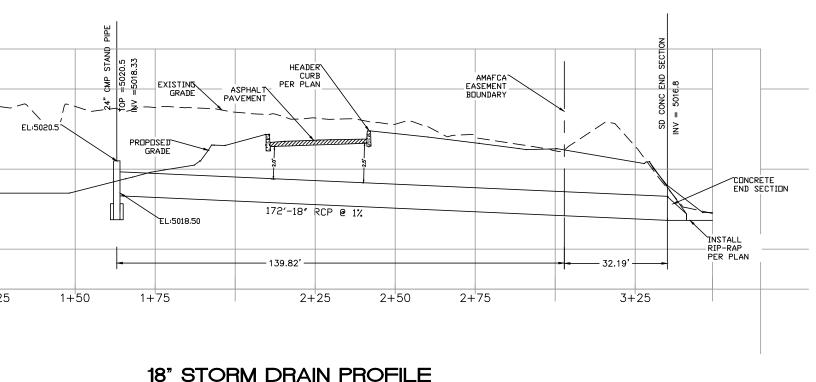
THE PROPOSED DEVELOPMENT IS A 1.99 ACRE MULTI-PAD COMMERCIAL DEVELOPMENT PROJECT, LOCATED AT 3615 HWY 528 ALBUQUERQUE, NM 87114. THE PROPOSED DEVELOPMENT IS LOCATED IN PRECIPITATION ZONE 1, WEST OF THE RIO GRANDE RIVER AS SPECIFIED IN THE DEVELOPMENT PROCESS MANUEL CH. 6. THE PROJECT SITE IS LOCATED WITHIN SAD 223, WHERE DRAINAGE IS COLLECTED FROM A LARGE AREA AROUND THE COTTONWOOD MALL. THE PROJECT SITE PREVIOUSLY CONTAINED A TWO STORY OFFICE BUILDING WHICH HAS SINCE BEEN DEMOLISHED AND REMOVED. THE PROJECT SITE HAS BEEN PREVIOUSLY GRADED AND IS PARTLY PAVED. THE SITE IS BORDERED BY A VARIETY OF COMMERCIAL AND RESIDENTIAL ZONE DISTRICTS. TO THE SOUTH LAYS THE INTERSECTION OF NM-528 AND ELLISON DR. TO THE NORTH THE SITE IS BORDERED BY AN AMAFCA DRAINAGE CHANNEL AND A DE-SILTING POND. THE PROPOSED SITE LIES WITHIN HYDROLOGY NUMBER A14D019 AND DOES NOT CONTAIN A FLOOD PLAIN.

EXISTING CONDITIONS

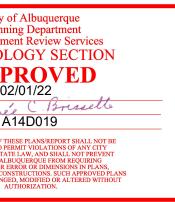
THE SITE IS CURRENTLY PARTLY PAVED WHICH INCLUDES ACCESS AISLES AND PARKING ON THE SOUTH SIDE OF THE PROPERTY. THE REMAINDER OF THE LOT REMAINS VACANT WITH GROWING VEGETATION. BASED ON THE TOPOGRAPHY, RUNOFF SURFACE FLOWS NORTH-EAST AND DISCHARGES INTO THE AMAFCA DE-SILTING POND VIA AN EXISTING ROCK SWALE, LOCATED ON THE SOUTH-EAST SIDE OF THE DE-SILTING POND. CROSS LOT DRAINAGE FROM THE NEIGHBORING LOTS IS REDUCED DUE TO EXISTING WALLS AND CURBING ALONG THE SOUTH, EASTERN AND NORTHERN PROPERTY LINE. OFFSITE DRAINAGE FROM A PORTION OF HWY NM-528'S RIGHT OF WAY FLOWS EAST INTO THE SUBJECT PROPERTY AND IS TAKEN INTO CONSIDERATION.

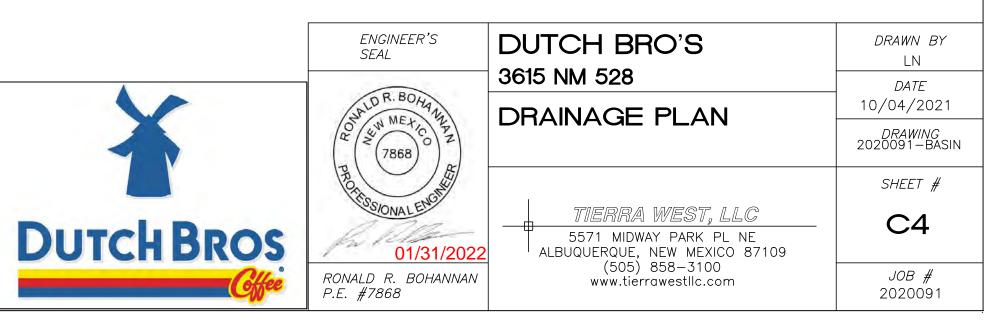
PROPOSED CONDITIONS

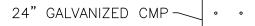
THE CONCEPTUAL GRADING AND DRAINAGE REPORT AND PLAN FOR THIS SITE HAS BEEN PREVIOUSLY APPROVED BY HYDROLOGY UNDER HYDRO NUMBER A14D019. THE DEVELOPED FLOWS WILL SURFACE FLOW INTO A STORM WATER QUALITY (SWQ) POND LOCATED ON THE EASTERN SIDE OF THE PROJECT SITE. THE SWQ POND IS DESIGNED TO RETAIN THE FIRST 0.62 INCHES OF RUNOFF. ANY FLOWS BEYOND THAT WILL BE CONVEYED INTO AN UNDERGROUND STORM DRAIN PIPE, WHICH OUTFALLS INTO THE AMAFCA DE-SILTING POND NORTH OF THE SITE. IN AN EMERGENCY SITUATION, AS THE SWQ POND REACHES MAXIMUM CAPACITY THE STORM WATER RUNOFF WILL BE ROUTED INTO AN EMERGENCY SPILLWAY WHICH DRAINS INTO THE AMAFCA DE-SILTING POND. THE EMERGENCY SPILLWAY IS A CONCRETE RUNDOWN LOCATED SOUTH-EAST OF THE DE-SILTING POND.



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=6'





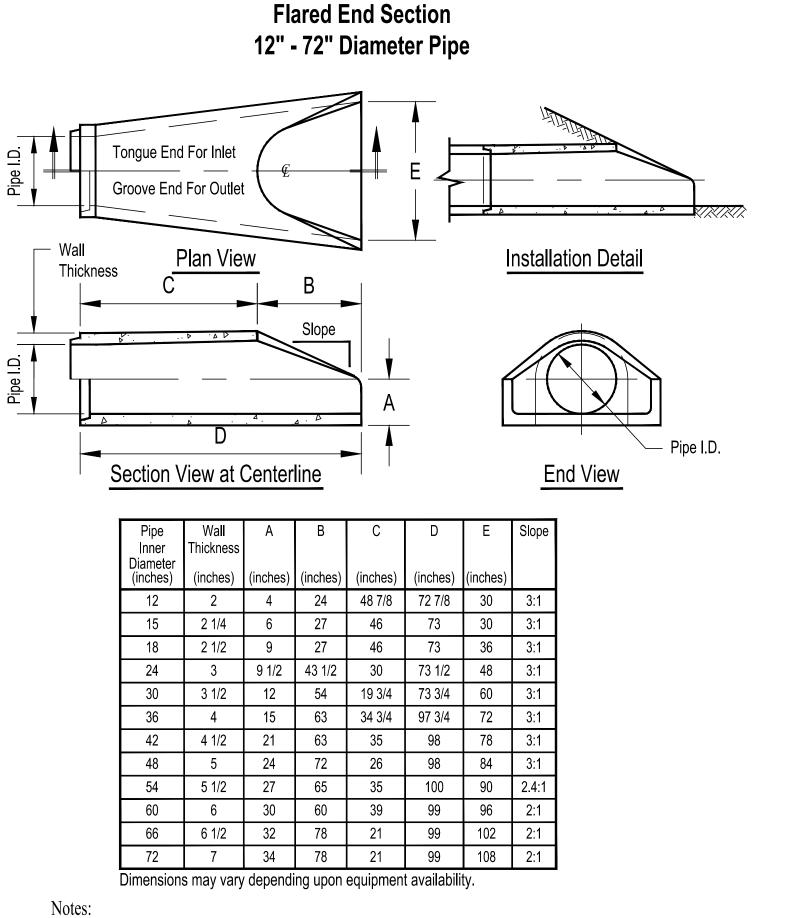




PIPE ____

INV PER PLAN





1. Produced to meet ASTM specifications.

2. Contact a Concrete Pipe Division representative for details not listed on this sheet.

CONCRETE FLARED END SECTION DETAIL NTS

Rinker 024

