CITY OF ALBUQUERQUE

Planning Department Alan Varela, Director



Mayor Timothy M. Keller

September 21, 2023

Fred C. Arfman, P.E. Isaacson & Arfman, P.A. 128 Monroe St. N.E Albuquerque, NM 87108

RE: Farolito Senior Community 10501 Central Ave. NE Grading & Drainage Plan Engineer's Stamp Date: 09/15/23 Hydrology File: L21D074

Dear Mr. Arfman:

Based upon the information provided in your submittal received 09/15/2023, Grading & Drainage Plan is approved for Building Permit, Grading Permit and SO-19 Permit. Please attach a copy of these approved plans in the construction sets for Building Permit processing along with a copy of this letter.

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

- 1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
- NM 87103
 Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for \$25.00 made out to "Bernalillo County" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review at Plaza de Sol.

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

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



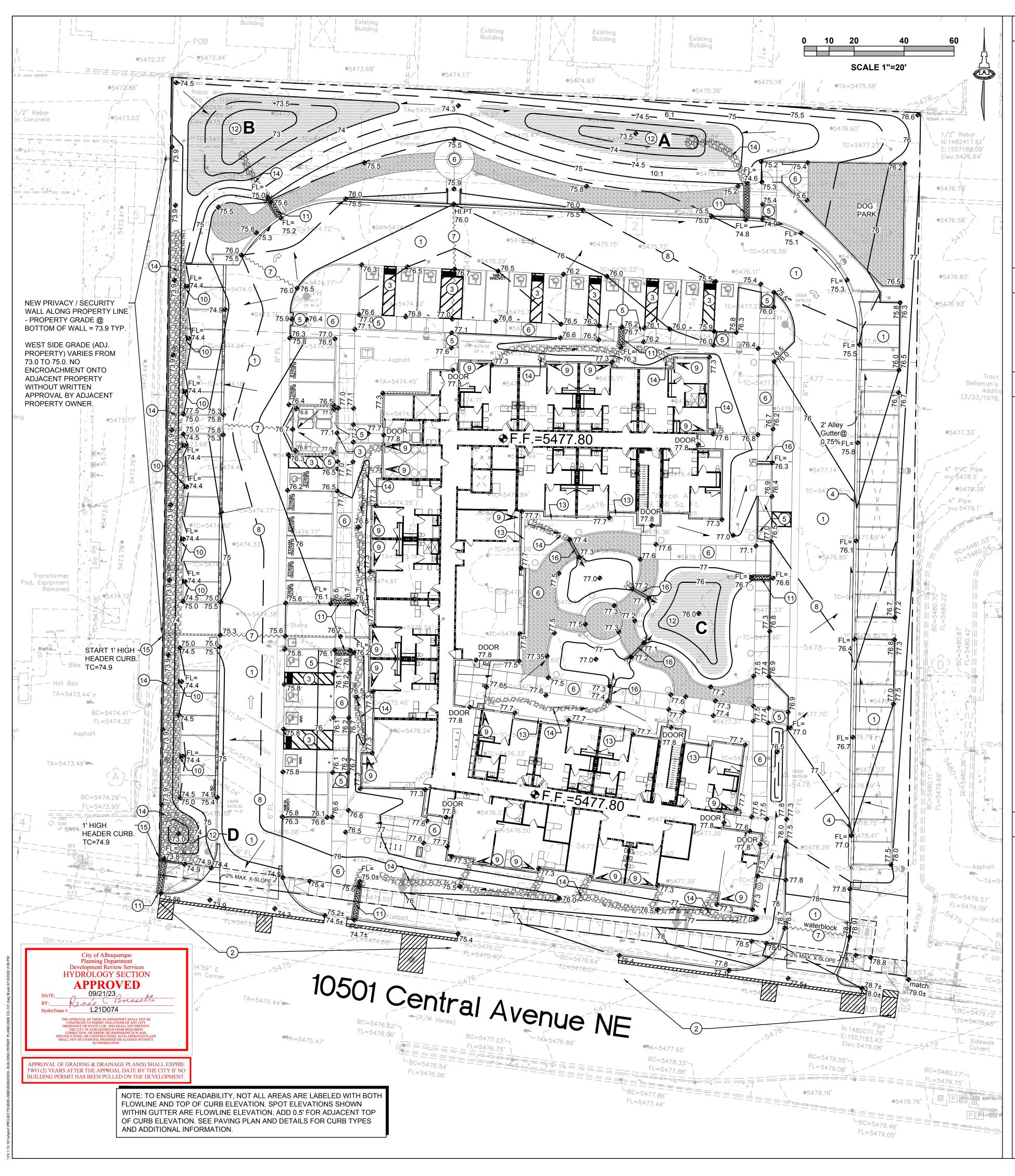
City of Albuquerque

Planning Department Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title:	Hydrology File #
City Address, UPC, OR Parcel:	
Applicant/Agent:	Contact:
	Phone:
Email:	
Applicant/Owner:	Contact:
Address:	Phone:
Email:	
(Please note that a DFT SITE is one that need	ds Site Plan Approval & ADMIN SITE is one that does not need it.)
TYPE OF DEVELOPMENT: PLAT	(#of lots) RESIDENCE
DFT	SITE ADMIN SITE
RE-SUBMITTAL: YES NO	
DEPARTMENT: TRANSPORTA	TION HYDROLOGY/DRAINAGE
Check all that apply under Both the Type	of Submittal and the Type of Approval Sought:
TYPE OF SUBMITTAL:	TYPE OF APPROVAL SOUGHT:
ENGINEER/ARCHITECT CERTIFICA	TION BUILDING PERMIT APPROVAL
PAD CERTIFICATION	CERTIFICATE OF OCCUPANCY
CONCEPTUAL G&D PLAN	CONCEPTUAL TCL DFT APPROVAL
GRADING & DRAINAGE PLAN	PRELIMINARY PLAT APPROVAL
DRAINAGE REPORT	FINAL PLAT APPROVAL
DRAINAGE MASTER PLAN	SITE PLAN FOR BLDG PERMIT DFT
CLOMR/LOMR	APPROVAL
TRAFFIC CIRCULATION LAYOUT (7	SIA/RELEASE OF FINANCIAL GUARANTEE
ADMINISTRATIVE	FOUNDATION PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT F APPROVAL	OR DFT GRADING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS)	SO-19 APPROVAL
STREET LIGHT LAYOUT	PAVING PERMIT APPROVAL
OTHER (SPECIFY)	GRADING PAD CERTIFICATION
omer(billen i)	WORK ORDER APPROVAL
	CLOMR/LOMR
	OTHER (SPECIFY)

DATE SUBMITTED: ____

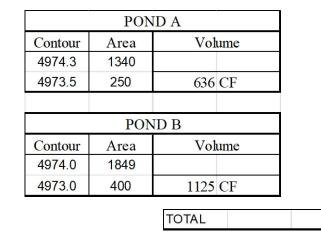


STORMWATER QUALITY

REDEVELOPMENT: THIS SITE WAS PREVIOUSLY FULLY DEVELOPED. REDEVELOPEMENT IS SUBJECT TO A REDUCED STORMWATER QUALITY VOLUME REQUIREMENT OF 0.26"/SF OF IMPERVIOUS AREA.

THE IMPERVIOUS AREA FOR THIS PROPERTY IS CALCULATED AS 66% OF TOTAL AREA. (0.66 * 99,735 SF) = 65,826 SF. THE REQUIRED STORMWATER QUALITY RETENTION VOLUME = 0.26"/12 * TYPE 'D' AREA = 1,427 CF.

NOTE THAT ALTHOUGH A PORTION OF THE PARKING STALLS AROUND THE PERIMETER WILL BE CONSTRUCTED WITH BASE COURSE (PERVIOUS PAVEMENT), THE STORMWATER QUALITY VOLUME IS BASED ON IMPERVIOUS PAVEMENT FOR ALL PARKING & DRIVE AISLES.



ADA COMPLIANCE

SIDEWALK(S) AND RAMP(S): TARGET CROSS SLOPE = 1% TO 1.5%. CROSS SLOPE SHALL NOT EXCEED 2%

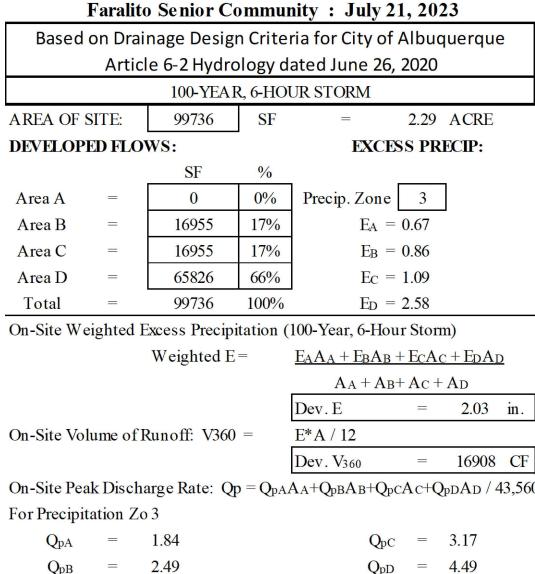
ACCESSIBLE RAMP(S): TARGET LONGITUDINAL SLOPE = 7% LONGITUDINAL SLOPE SHALL NOT EXCEED 12:1 (8.3%).

ACCESSIBLE PARKING: TARGET SLOPE = 1% TO 1.5%. SLOPE SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION



- NEW PAVING AT ELEVATIONS SHOWN. SEE PAVING PLAN FOR MATERIAL, EXTENTS, JOINTS AND PAVING SECTIONS.
- SEE PUBLIC WORK ORDER DRAWINGS AND/OR BUILDING PERMIT PLANS FOR CONSTRUCTION WITHIN R/W INCLUDING NEW ACCESS DRIVES, ADA COMPLIANT RAMPS, PUBLIC SIDEWALKS, ETC. NO WORK SHALL BE PERFORMED IN THE PUBLIC ROW WITHOUT AN APPROVED WORK ORDER OR EXCAVATION PERMIT.
- 4. ALLEY GUTTER. SEE PAVING DETAILS
- 5. ADA COMPLIANT 1:12 MAX. SLOPE ADA COMPLIANT ACCESS RAMP.
- ADA COMPLIANT PEDESTRIAN WALK AT ELEVATIONS SHOWN
- HIGH POINT / GRADE BREAK LOCATION.
- 0.5' DESIGN CONTOURS ARE SHOWN DASHED WHERE NECESSARY TO CLARIFY GRADING CONCEPT.
- ROOF DISCHARGE LOCATION INSTALL SPLASHPAD (3' DIA. X 8" DEEP ANGULAR ROCK OR PRECAST UNIT) AND 2'-3' WIDE (MEANDERING) ANGULAR ROCK SWALE TO LIMITS SHOWN.
- 10. 18" WIDE (BOTTOM WIDTH) OPENING IN CURB TO PASS FLOW. SEE PAVING DETAILS SLOPE GUTTER AT 2% MAX. IN DIRECTION OF FLOW (EACH CURB OPENING LOCATION).
- 1. 18" WIDE COVERED CONCRETE SIDEWALK CULVERT PER COA STD. DWG. 2236. SEE PAVING DETAIL FOR ADDITIONAL INFORMATION. S.O.19 PERMIT REQUIRED FOR CONSTRUCTION IN THE R.O.W. - SEE NOTES THIS SHEET.
- 2. STORMWATER QUALITY RETENTION POND AT ELEVATIONS SHOWN. STORMWATER QUALITY PONDING VOLUMES MAY BE VERIFIED AS PART OF AS-BUILT CERTIFICATION. PONDS WHICH DO NOT PROVIDE THE REQUIRED VOLUME WILL BE CORRECTED AT CONTRACTOR'S EXPENSE.
- CONSTRUCT 18" WIDE X 4" THICK CONCRETE APRON ADJACENT TO BUILDING THIS AREA TO EXTENTS SHOWN. TOP OF CONCRETE AT BUILDING = 0.1' BELOW FINISH FLOOR ELEVATION. SLOPE APRON AWAY FROM BUILDING AT 2% SLOPE.
- INSTALL ANGULAR ROCK EROSION PROTECTION TO LIMITS HATCHED. EROSION PROTECTION MUST BE PLACED TO ALLOW STORMWATER TO PASS SMOOTHLY. HAND PLACE AT CURB OPENINGS AND SWALES TO ENSURE RUNOFF CAN BE CAPTURED AND CONVEYED PROPERLY. ALL EROSION PROTECTION TO BE 4" AVG. DIA. (2" TO 6") @ 8" DEEP OVER NON-WOVEN GEOTEXTILE (US135NW O.A.E.).
- 5. CONSTRUCT MODIFIED HEADER CURB TO ACHIEVE GRADE DIFFERENCE SHOWN. SEE PAVING DETAIL.
- 16. CONCRETE ALLEY GUTTER CROSSING WITH TWO 3" PIPES.

CALCULATIONS



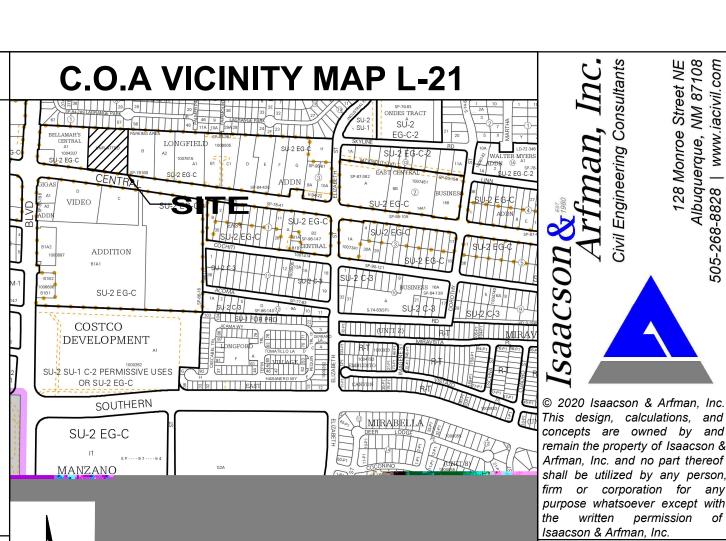
POND C							
Contour	Area	Volume					
4976.7	964						
4976.0	470	502 CF					
POND D							
Contour	Area	Volume					
4973.8	188						
4973.0	65	101 CF					

ADA COMPLIANT PARKING SPACES AND ACCESS AISLES AT ELEVATIONS SHOWN

Dev. Qp

2.29 ACRE **EXCESS PRECIP:** 0% Precip. Zone 3 $E_{A} = 0.67$ $E_{\rm B} = 0.86$ $E_{\rm C} = 1.09$ $E_{D} = 2.58$ $\underline{E}_{A}A_{A} + \underline{E}_{B}A_{B} + \underline{E}_{C}A_{C} + \underline{E}_{D}A_{D}$ $A_A + A_B + A_C + A_D$ Dev. E = 2.03 in. E*A / 12 Dev. V₃₆₀ = 16908 CF $Q_{pC} = 3.17$ $Q_{pD} = 4.49$ = 9.0 CFS

2.



PROJECT INFORMATION

PROPERTY: THE PROPERTY IS A PREVIOUSLY DEVELOPED COMMERCIAL PROPERTY BOUNDED ON THE NORTH BY SINGLE FAMILY RESIDENTIAL. TO THE EAST AND WEST BY DEVELOPED COMMERCIAL PROPERTY, AND TO THE SOUTH BY CENTRAL AVENUE.

PROPOSED IMPROVEMENTS: THE PROPOSED IMPROVEMENTS INCLUDE CONSTRUCTION OF MULTI-FAMILY HOUSING WITH ASSOCIATED ASPHALT PAVED ACCESS, PARKING, AND LANDSCAPING

LOT SIZE: 2.29 ACRES ±

1"=750'±

L-21-Z

LEGAL: PARCEL A AS SHOWN ON THE BOUNDARY SURVEY OF TRACT C, VIDEO ADDITION AND PARCELS OF LAND OWNED BY THE STATE OF NEW MEXICO

VERTICAL DATUM SHOWN HEREON WAS BASED UPON ALBUQUERQUE CONTROL SURVEY MONUMENT "5-K20" HAVING AN ELEVATION OF 5429.995.

FLOOD HAZARD: PER BERNALILLO COUNTY FIRM MAP #35001C0359G DATED 9/26/2008, THE SITE IS LOCATED WITHIN ZONE "X", DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN.

SURVEYOR: BRIAN J. MARTINEZ, CSI-CARTESIAN SURVEYS INC. P.O BOX 44414 RIO RANCHO, NEW MEXICO 87174

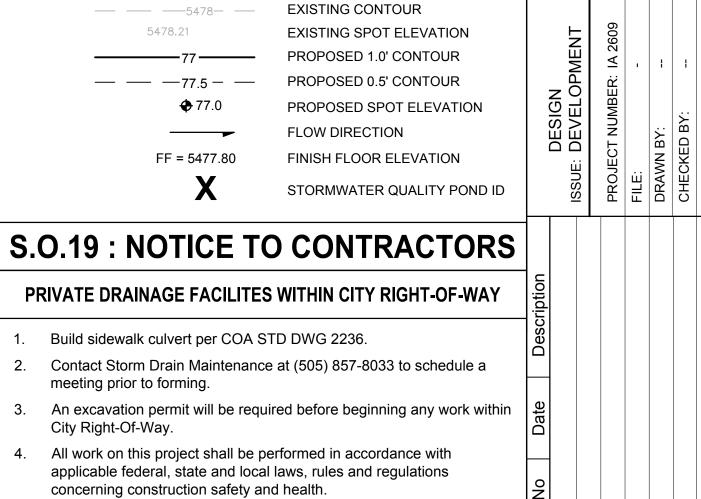
DRAINAGE PLAN CONCEPT: ONSITE FLOW ON THE EAST AND NORTH SIDES OF THE PROPOSED BUILDING WILL BE ROUTED NORTH TO WATER HARVESTING (STORMWATER QUALITY) PONDS ON THE NORTH END OF THE PROPERTY. THIS AREA WILL BE UTILIZED AS A NATURAL AREA FOR PLANTS, ANIMALS, AND INSECTS.

ONSITE FLOW ON THE WEST SIDE OF THE PROPOSED BUILDING WILL BE DIRECTED TO A SHALLOW STORMWATER QUALITY POND AT THE SOUTHWEST CORNER OF THE PROPERTY

ONCE THE STORMWATER QUALITY PONDS FILL, EXCESS STORMWATER WILL BE RELEASED TO CENTRAL AVE. VIA TWO PROPOSED COVERED SIDEWALK CULVERTS.

TOTAL DISCHARGE FROM THE SITE WILL BE LESS THAN HISTORIC DUE TO A REDUCTION OF IMPERVIOUS AREA AS WELL AS THE ADDITION OF STORMWATER QUALITY PONDS.





5. 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.

Prior to construction, the contractor shall excavate and verify the 6. 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. Backfill compaction shall be according to traffic/street use.

- Maintenance of the facility shall be the responsibility of the owner of the 8 property being served.
- 9. Work on arterial streets may be required on a 24-hour basis.
- 10. 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.

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Engineer

PLAN SHEET NUMBER

CG101