

CITY OF ALBUQUERQUE

Planning Department
Brennon Williams, Director



Mayor Timothy M. Keller

March 26, 2020

Jeremy Shell
Respec
5971 Jefferson St. NE
Albuquerque, NM 87109

RE: US Eagle FCU – Juan Tabo
1955 Juan Tabo NE
Grading and Drainage Plan Stamp Date: 2/24/20
Hydrology File: H21D029

Dear Mr. Shell:

Based on the re-submittal received on 3/12/20, this project is approved for Building Permit. 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..

Prior to Certificate of Occupancy (For Information):

1. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.
2. City acceptance and close-out of the public Work Order will be required, unless a financial guarantee has been posted.

If you have any questions, please contact me at 924-3986 or earmijo@cabq.gov.

Sincerely,

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



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

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

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

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

IS THIS A RESUBMITTAL?: _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION _____ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

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

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- _____ BUILDING PERMIT APPROVAL
- _____ 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: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____



TREASURY DIVISION DAILY DEPOSIT

Transmittals for:
PROJECTS Only

City of Albuquerque Treasury

J-24 Deposit

Date: 3/23/2020 Office: ANNEX
Station ID: Cashier: E41709
Batch: 11201 Trans: 12
Account: 461615 Activity ID: 7547210
Dept ID: Project ID: 24-MS4
Bus. Unit: PCDMD

Alloc amt: \$3,824.00

Trans amt: \$3,824.00

Check tendered: \$3,824.00

Payment-in-Lieu for Storm Water Quality Volume Requirement

CASH COUNT	AMOUNT	ACCOUNT NUMBER	FUND NUMBER	BUSINESS UNIT	PROJECT ID	ACTIVITY ID	AMOUNT
TOTAL CHECKS	\$ 3824	461615	305	PCDMD	24_MS4	7547210	\$ 3824
TOTAL AMOUNT						TOTAL DEPOSIT	\$3824

Hydrology#: H21D029 Name: US Eagle FCU – Juan Tabo
Payment In-Lieu For Storm Water Quality
Volume Requirement

Address/Legal Description: Lot 14-G, Block 95-A, Snow Heights

DEPARTMENT NAME: Planning Department/Development Review Services, Hydrology

PREPARED BY Ernest Armijo PHONE 505-924-3986

BUSINESS DATE 3/20/2020

DUAL VERIFICATION OF DEPOSIT 
EMPLOYEE SIGNATURE

AND BY _____
EMPLOYEE SIGNATURE

REMITTER: _____

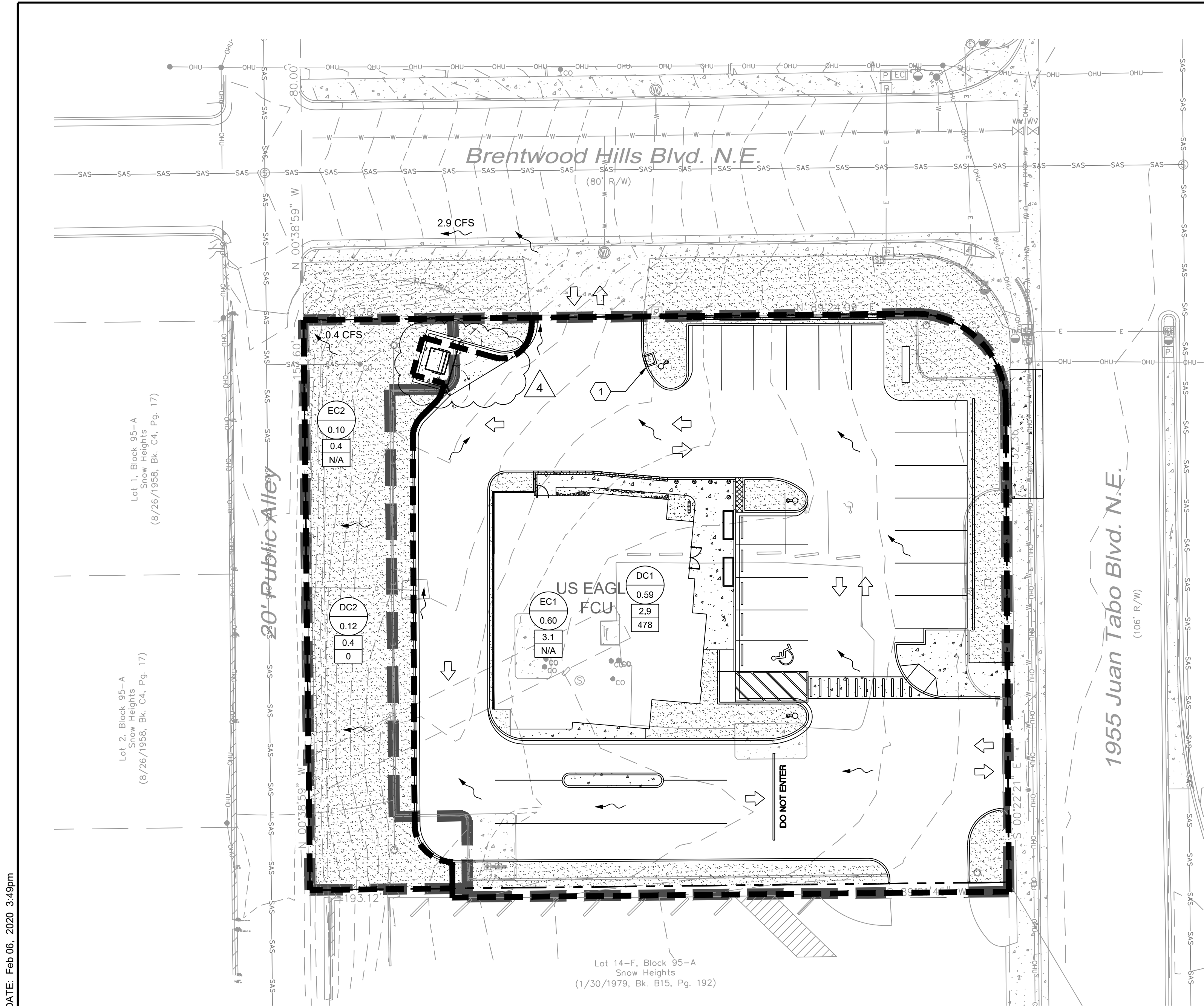
AMOUNT: _____

BANK: _____

CHECK #: _____ DATE ON CHECK: _____

The Payment-in-Lieu can be paid at the Plaza del Sol Treasury, 600 2nd St. NW. **Bring three copies of this invoice to the Treasury** and provide a copy of the receipt to Hydrology, Suite 201, 600 2nd St. NW, or e-mail with the Hydrology submittal to PLNDRS@cabq.gov.

NAME: G:\Shared drives\NMP\Projects\03878 US Eagle FCU\3. DWG\Sheets\03878\Drainage Plan.dwg PLOT DATE: Feb 06, 2020 3:49pm



Hydrology Calculations

The following calculations are based on Albuquerque's Development Process Manual, Section 22.2

Runoff Rate:

Treatment Type Areas

Subbasin	Area _A (ac)	Area _B (ac)	Area _C (ac)	Area _D (ac)	Total (ac)
EC1	0.00	0.02	0.02	0.57	0.60
EC2	0.00	0.00	0.10	0.00	0.10
DC1	0.00	0.04	0.04	0.51	0.59
DC2	0.00	0.00	0.12	0.00	0.12

Peak Discharge values based on Zone 4 from Table A-9

Q_A = 2.20 cfs/ac Q_B = 2.92 cfs/ac Q_C = 3.73 cfs/ac Q_D = 5.25 cfs/ac

Peak Discharge calculation for a 100-yr, 24-hr storm event from equation A-10

Subbasin	Discharge (cfs)
EC1	3.1
EC2	0.4
Total EC	3.5
DC1	2.9
DC2	0.4
Total DC	3.4

Water Quality:

Required Water Quality volume for first flush of 0.26"

Subbasin	Volume (cu. ft.)
DC1	478
DC2	0
Total	478

(Fee-in-Lieu = \$5,000)

KEYED NOTES

I.D.#	DESCRIPTION
1	PROPOSED MODIFIED TYPE D INLET. SEE SHEET C-500, DETAIL 13.

BACKGROUND

LOT 14-G, BLOCK 95-A OF SNOW HEIGHTS IS APPROXIMATELY 0.7 ACRES IN THE CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO. THE PROPERTY IS LOCATED AT THE SOUTHWEST CORNER OF THE JUAN TABO BOULEVARD AND BRENTWOOD HILLS BOULEVARD INTERSECTION. THE SITE WAS PREVIOUSLY DEVELOPED AS A SMALL RESTAURANT BUILDING WITH A PARKING LOT. THE BUILDING WAS RECENTLY DEMOLISHED. THE PROPOSED PROJECT IS A US EAGLE FEDERAL CREDIT UNION. THE EXISTING PARKING LOT WILL BE DEMOLISHED. THERE IS NO DESIGNATED 100-YEAR FLOODPLAIN SHOWN ON THE SITE.

METHODOLOGY

HYDROLOGY CALCULATIONS FOR THE SITE ARE PERFORMED IN ACCORDANCE WITH THE ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM) SECTION 22.2 USING THE RATIONAL METHOD TO CALCULATE PEAK FLOW RATES TO ENSURE ALL FLOW PATHS ARE SUFFICIENT TO CARRY FLOWS. THE REQUIRED WATER QUALITY VOLUME WAS CALCULATED BY MULTIPLYING THE IMPERVIOUS AREA BY THE FIRST FLUSH RUNOFF VALUE OF 0.26". ALL HYDROLOGIC AND HYDRAULIC CALCULATIONS CAN BE FOUND ON THIS SHEET.

EXISTING CONDITIONS

THE SITE, IN GENERAL, SLOPES FROM SOUTHEAST TO NORTHWEST AT VARYING SLOPES FROM 3% - 8%. STORM WATER RUNOFF GENERATED BY THE EXISTING BUILDING AND PARKING AREA OF LOT 14-G FREELY DISCHARGES INTO BRENTWOOD HILLS BOULEVARD THROUGH THE EXISTING DRIVEWAY LOCATED NEAR THE NORTHWEST CORNER OF THE PROPERTY. A PORTION OF THE WESTERN SIDE OF THE SITE IS SLOPED TO MATCH GRADE AT THE PUBLIC ALLEY ALONG THE PROPERTY'S WESTERN BOUNDARY. THIS SLOPED LANDSCAPE AREA SHEET DRAINS INTO THE ALLEY. THE SITE RECEIVES A SMALL AMOUNT OF OFFSITE FLOWS FROM LOT 14-F, THE NEIGHBORING PROPERTY TO THE SOUTH. THE EXISTING SITE HAS BEEN SPLIT INTO TWO SUB-BASINS.

SUB-BASIN EC1 IS 0.6 ACRES CONSISTING OF THE EXISTING BUILDING AND PARKING AREA. THIS SUB-BASIN GENERATES 3.1 CFS AND FLOWS IN THE PARKING AREA TOWARD THE NORTHWEST CORNER OF THE PROPERTY WHERE WATER FREELY DISCHARGES INTO BRENTWOOD HILLS BOULEVARD.

SUB-BASIN EC2 IS 0.1 ACRES AND GENERATES 0.4 CFS. THIS SUB-BASIN CONSISTS OF THE SLOPED AREA ON THE WEST SIDE OF THE PROPERTY. RUNOFF SHEET FLOWS INTO THE PUBLIC ALLEY ALONG THE SITES WESTERN BOUNDARY. WATER IN THE ALLEY FLOWS NORTH AND ALSO DISCHARGES INTO BRENTWOOD HILLS BOULEVARD.

DEVELOPED CONDITIONS

THE DRAINAGE INTENTION OF THE DEVELOPED CONDITIONS IS TO MATCH THE EXISTING DRAINAGE PATTERN. THE SITE HAS BEEN SPLIT INTO TWO DEVELOPED CONDITIONS SUB-BASINS.

SUB-BASIN DC1 IS 0.59 ACRES CONSISTING OF THE PROPOSED BUILDING AND PARKING AREA. THIS SUB-BASIN GENERATES 2.9 CFS. RUNOFF FROM THE ROOF IS COLLECTED IN A STORM DRAIN SYSTEM INTERNAL TO THE BUILDING. THIS STORM DRAIN DISCHARGES TO A MODIFIED TYPE "D" INLET IN THE PARKING LOT THAT WILL ACT AS BOTH A BUBBLER AND A FRENCH DRAIN. SEE DETAIL ON SHEET C-500. RUNOFF FROM LARGER STORM EVENTS WILL BUBBLE UP THROUGH THE INLET AND INTO THE PARKING AREA. WATER THAT REMAINS IN THE INLET WILL INFILTRATE INTO THE GROUND THROUGH THE BOTTOM OF THE MODIFIED INLET. SIMILAR TO SUB-BASIN EC1, FLOWS FROM THE PARKING LOT ARE ROUTED THROUGH THE PARKING AREA TOWARD THE NORTHWEST CORNER OF THE PROPERTY. FROM THERE, RUNOFF FLOWS OUT THE EXISTING DRIVEWAY INTO BRENTWOOD HILLS BOULEVARD.

SUB-BASIN DC2 IS 0.12 ACRES AND GENERATES 0.4 CFS. THIS SUB-BASIN CONSISTS OF THE SLOPED LANDSCAPE AREA ON THE WESTSIDE OF THE PROPERTY. THIS SUB-BASIN WILL MATCH THE EXISTING DRAINAGE PATTERN AND SHEET FLOW INTO THE EXISTING PUBLIC ALLEY.

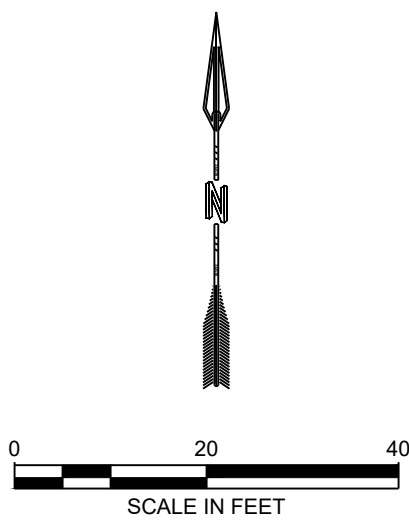
THE WATER QUALITY TABLE AT THE BOTTOM LEFT CORNER OF THIS SHEET UNDER "HYDROLOGY CALCULATIONS" SUMMARIZES THE WATER QUALITY VOLUMES REQUIRED FOR DEVELOPED CONDITIONS. THE OWNER HAS ELECTED TO PAY THE FEE-IN-LIEU OF STORM WATER QUALITY PONDING REQUIREMENTS. THE TOTAL VOLUME REQUIRED IS 478 CUBIC FEET. THEREFORE, THE PAYMENT AMOUNT IS 478 CF X \$8/CF = \$3,824.

BENCH MARKS

1. LACS MONUMENT "15-H22" HAVING AN ELEVATION OF 5615.532'. (NAVD 1988). US SURVEY FEET.

SYMBOL LEGEND

	BASIN DESIGNATION	BASIN CALLOUT
	BASIN AREA, ACRES	
	100 YEAR STORM, CFS	BASIN INFORMATION
	REQUIRED WATER QUALITY VOLUME FOR FIRST FLUSH OF 0.34"	
	EXISTING SUB-BASIN BOUNDARY	
	PROPOSED SUB-BASIN BOUNDARY	
	EXISTING MAJOR CONTOUR	
	EXISTING MINOR CONTOUR	
	PROPERTY LINE	
	DIRECTION OF DRAINAGE FLOW	
	PROPOSED MODIFIED TYPE D INLET	



DESIGNED AL
DRAWN MF
CHECKED JS
DATE
RESPEC
5971 Jefferson Street Suite 101
Albuquerque, NM 87110
Water and Natural Resources
respec.com 505.253.7718
APPENDIX 4, REFUSE ENCLOSURE REVISIONS 2/6/20

STAMP
HIGH W. FLOYD
NEW MEXICO
1983
Professional Engineer

THIS DRAWING IS INCOMPLETE
AND NOT TO BE USED FOR
CONSTRUCTION UNLESS IT IS
STAMPED, SIGNED AND DATED

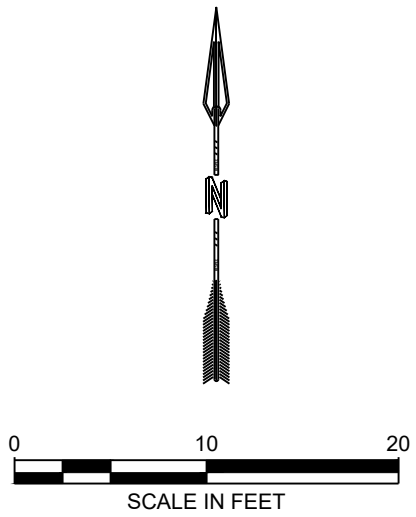
Know what's below.
Call before you dig.

PROJECT NAME:
US EAGLE FCU JUAN TABO

SHEET TITLE:
DRAINAGE PLAN

SUBMITTED FOR:
BUILDING PERMIT

SHEET NUMBER:
C-101



1. LACS MONUMENT "15-H22" HAVING AN ELEVATION OF 5615.532'.
(NAVD 1988). US SURVEY FEET.

1. ALL SPOT ELEVATIONS ARE AT FLOWLINE UNLESS OTHERWISE NOTED IN THE PLANS.

- | | |
|-----------|--|
| —90.25 | FLOWLINE ELEVATION |
| —TW 90.50 | TOP OF RETAINING WALL ELEVATION |
| —BW 90.25 | BOTTOM OF RETAINING WALL - STEM WALL ELEVATION |
| —FF 89.37 | FINISHED FLOOR ELEVATION |
| —90.25± | MATCH EXISTING GRADE ELEVATION (APPROXIMATE) |
| —TS 90.25 | TOP OF SIDEWALK ELEVATION |
| —TA 90.25 | TOP OF ASPHALT ELEVATION |
| —TC 90.25 | TOP OF CURB ELEVATION |

SUBMITTED FOR: SHEET NUMBER:	SHEET TITLE: BUILDING PERMIT	PROJECT NAME: US EAGLE FCU JUAN TABO		THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED	STAMP 	<div> <div> </div> <div> RESPEC 5971 Jefferson Street Suite 101 Albuquerque, New Mexico 87109 Water and Irrigation Services Phone: 505-253-9718 </div> </div>	DESIGNED AL DRAWN MF CHECKED JS DATE 12.19.2019	REVISION ADDENDUM 1, 1/21/3719 ADDENDUM 2, MISCELLANEOUS SITE REVISIONS 1/15/20 ADDENDUM 4, REFUSE ENCLOSURE REVISIONS 2/6/20
					C-102			