

CITY OF ALBUQUERQUE



May 5, 2016

Richard J. Berry, Mayor

George Nemeth, P.E.
Smith Engineering Company
2201 San Pedro Drive NE
Building 4, Suite 200
Albuquerque, NM, 87110

**RE: 10116 Cochiti Rd SE (Storage Yard)
Grading and Drainage Plan
Engineer's Stamp Date 4-8-2016 (File:L20D069)**

Dear Mr. Nemeth:

Based upon the information provided in your submittal received 4-8-2016, the above referenced Grading and Drainage Plan is approved for Building Permit.

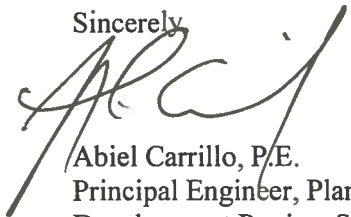
Please attach a copy of this approved plan in the construction sets when submitting for the building permit. Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

PO Box 1293

If you have any questions, you can contact me at 924-3986.

Albuquerque

Sincerely,


Abiel Carrillo, P.E.
Principal Engineer, Planning Dept.
Development Review Services

New Mexico 87103

www.cabq.gov

Orig: Drainage file



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: 10116 Cochiti Road SE Grading & Drainage Plan Building Permit #: T201690391 City Drainage #: L200069
DRB#: _____ EPC#: _____ Work Order#: _____
Legal Description: Lot 5, Block 12, Skyline Heights and vacated WLY 1/2 of Espejo Street S.E.
City Address: 10116 Cochiti Road SE, Albuquerque, NM 87123

Engineering Firm: Smith Engineering Company Contact: Michelle Madrid
Address: 2201 San Pedro Drive NE, Building 4, Suite 200, Albuquerque, NM, 87110
Phone#: 505-884-0700 Fax#: 505-884-2376 E-mail: michellem@smithengineering.pro

Owner: TEF Construction Contact: Leon Jones, III
Address: 10019 Acoma Road SE Albuquerque, NM 87123
Phone#: 505-293-2343 Fax#: _____ E-mail: Leon_Jones@TEFConst.comcastbiz.net

Architect: Suina + Mead Architects Contact: Lawrence Mead
Address: 401 Edith Blvd. NE, Suite 100, Albuquerque, NM, 87102
Phone#: 505-766-6968 Fax#: _____ E-mail: mead@suinamead.com

Other Contact: _____ Contact: _____
Address: _____
Phone#: _____ Fax#: _____ E-mail: _____

Check all that Apply:

DEPARTMENT:

- ☒ HYDROLOGY/ DRAINAGE
☐ TRAFFIC/ TRANSPORTATION
☐ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ ARCHITECT CERTIFICATION
☐ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
☐ DRAINAGE MASTER PLAN
☒ DRAINAGE REPORT
☐ CLOMR/LOMR

☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ TRAFFIC IMPACT STUDY (TIS)
☐ EROSION & SEDIMENT CONTROL PLAN (ESC)

☐ OTHER (SPECIFY) _____

CHECK 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

☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____



IS THIS A RESUBMITTAL?: ☐ Yes ☒ No

DATE SUBMITTED: April 7, 2016 By: Smith Engineering Company, Michelle Madrid, EI

Signature: GMD for M. Madrid

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

Project Title: _____ **Building Permit #:** _____ **City Drainage #:** _____

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

Legal Description: _____

City Address: _____

Engineering Firm: _____ **Contact:** _____

Address: _____

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

Owner: _____ **Contact:** _____

Address: _____

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

Architect: _____ **Contact:** _____

Address: _____

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

Other Contact: _____ **Contact:** _____

Address: _____

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

Check all that Apply:

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☐ WORK ORDER APPROVAL
☐ CLOMR/LOMR
- ☐ PRE-DESIGN MEETING
☐ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: ☐ Yes ☐ No

DATE SUBMITTED: _____ **By:** _____

COA STAFF: _____ ELECTRONIC SUBMITTAL RECEIVED: _____

10116 Cochiti Road SE Drainage Plan

Smith Project No.: 116612 7-Apr-16

Runoff Calculations per COA DPM Volume II, Chapter 22.2, Part A
Prepared for Grading Permit Application

COA Precipitation Zone 3

COA Precipitation Zone 3 Data

Land Treatment	Peak Discharge (cfs/ac)	6-hour Excess Precipitation, E (in)	Precipitation Depth for 6-hour Storm	Precipitation Depth for 24-hour Storm
A	1.87	0.66		
B	2.60	0.92	2.2	2.66
C	3.45	1.29		
D	5.02	2.36		

Peak Runoff Calculations

	Area (ft ²)	Area (ac)	Land Use Percentages				Peak Discharge (cfs)	Weighted E (in)	V ₃₆₀ (ac-ft)	V ₁₄₄₀ (ac-ft)
			A	B	C	D				
Existing	10197	0.23	0%	0%	95%	5%	0.8	1.34	0.026	0.027
Proposed	10197	0.23	0%	0%	77%	23%	0.9	1.53	0.030	0.032

First Flush Runoff Calculations

Added Type "D" Land Use (ft ²)	First Flush Excess Precipitation (in)	First Flush Runoff Volume (ft ³)
1820	0.44	66.73

(499 gallons)

Drainage Calculations

EXISTING SITE

The current site is used only for storage of construction materials and equipment. Presently, there are no utilities serving the site. The 0.23 acre site is gravel with a single 12' X 16' storage shed on a concrete pad with a concrete apron of about 16' X 20'. The site slopes generally from east to west.

PROPOSED SITE

The site will add a new 30' X 50' metal building storage shed on a concrete pad at the northeast portion of the site. Two new parking spaces will also be added, one of which will be a concrete paved ADA van space. Some landscaping will also be included as part of the building permit requirements.

The first flush calculations indicate a retention pond storage volume of 66.73 cubic feet is required. A pond of this volume will be constructed at the northeast corner of the site. The metal building will employ gutters and downspouts to capture the roof runoff and direct it to the pond. The concrete ADA parking space will slope toward the pond.

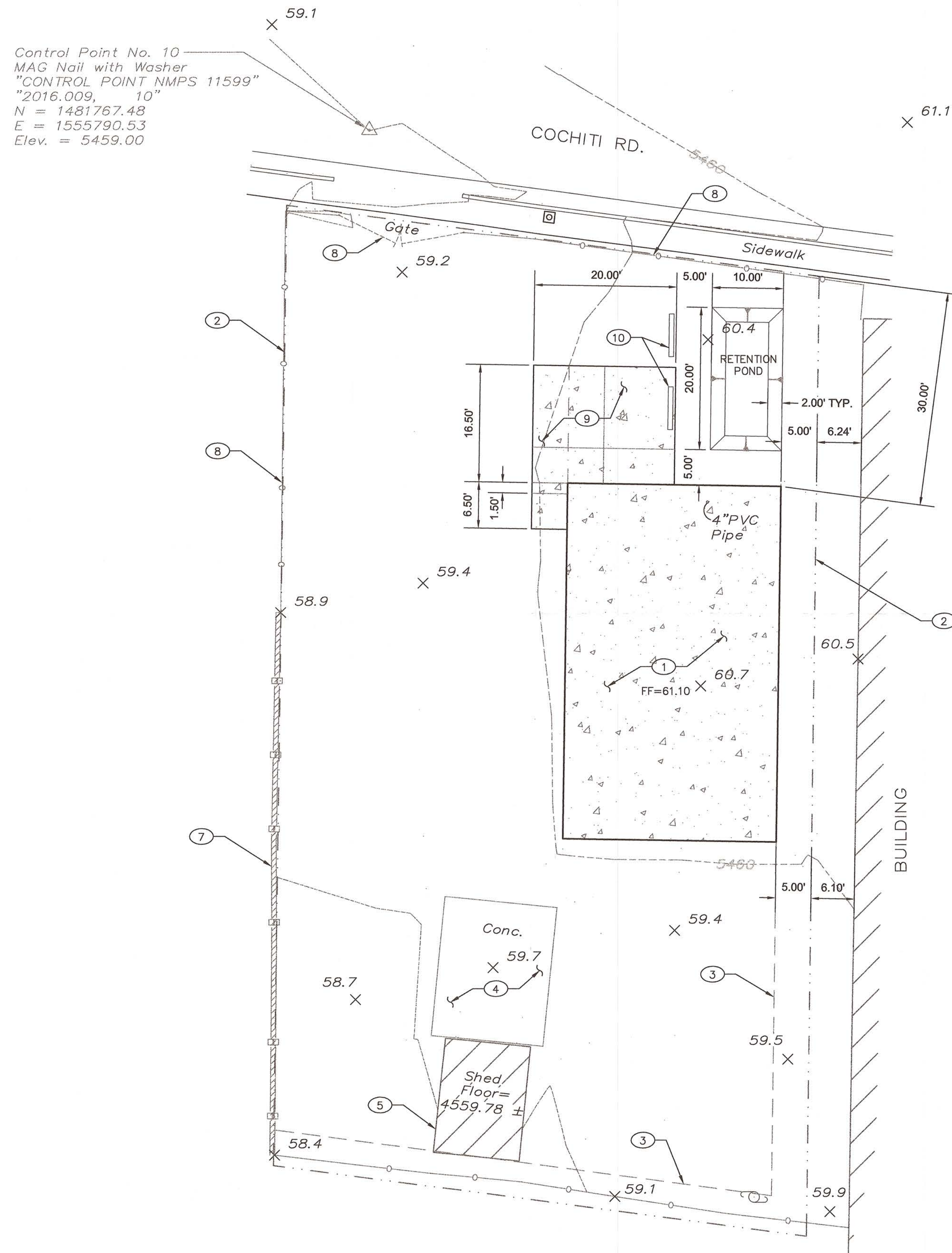
The pond volume provided is 74 cubic feet. The top of pond is 10' X 20' and 6" deep.

KEYED NOTES

- NEW CONCRETE BUILDING PAD. SEE SHEET S-101 FOR DIMENSIONS
- EXISTING PROPERTY LINE
- EXISTING UTILITY EASEMENT
- EXISTING CONCRETE PAD
- EXISTING SHED.
- EXISTING CHAIN LINK GATE
- EXISTING BLOCK WALL
- EXISTING CHAIN LINK FENCE
- NEW CONCRETE PAD, SEE ARCH.
- PARKING BUMPER, SEE ARCH.

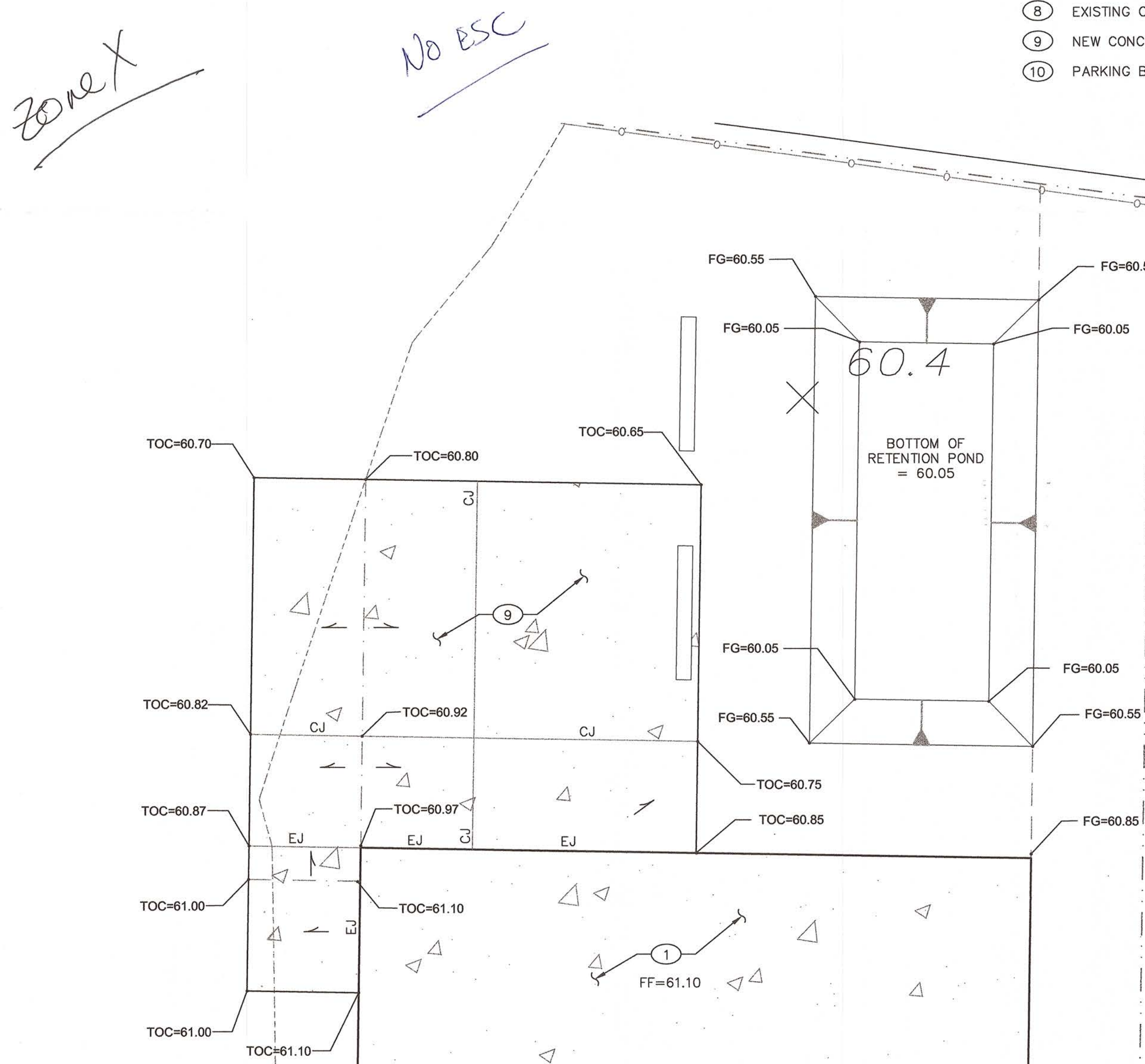
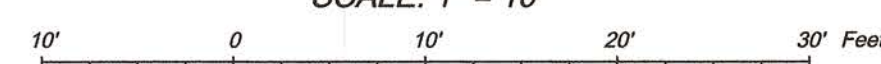
LEGEND

TOC	TOP OF CONCRETE
FG	FINISH GRADE
FF	FINISH FLOOR
EJ	EXPANSION JOINT
CJ	CONSTRUCTION JOINT
---	GRADE BREAK
→	FLOW DIRECTION



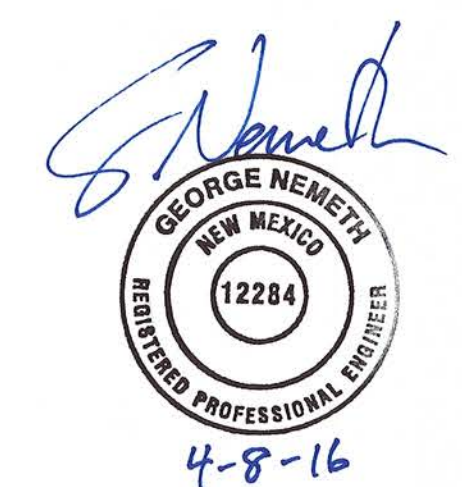
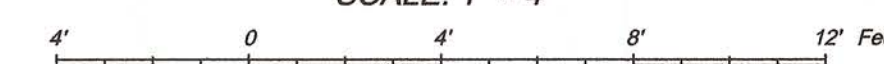
GRADING AND DRAINAGE PLAN

SCALE: 1" = 10'



ENLARGED GRADING PLAN

SCALE: 1" = 4'



10116 COCHITI ROAD SE
TEF WAREHOUSE

CIVIL GRADING AND DRAINAGE PLAN

TEXAS

NEW MEXICO

COLORADO

JOB NO:
116612

DATE:
4/08/16

SHEET NO:
C-100