CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director

Mayor Timothy M. Keller

December 19, 2024

Robert Fierro, P.E.
Fierro & Company
3201 4th Street NW, Suite C
Albuquerque, NM 87107

RE: Tuscany Village Unit II
Grading & Drainage Plans
Engineer's Stamp Date: 12/11/2024
Hydrology File: E22D024

Dear Mr. Fierro:

Based upon the information provided in your submittal received 12/17/2024, the Grading & Drainage Plans **are** approved for Grading Permit. The following comments need to be addressed for approval of the above referenced project:

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, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3314 or amontoya@cabq.gov.

Sincerely,

Anthony Montoya, Jr., P.E.
Senior Engineer, Hydrology
Planning Department, Development Review Services

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

City of Albuquerque

Planning Department
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

Project Title: Tuscany Village, Unit II Hydrology File # E22D024
Legal Description: Tract N-7-A-1, of the Bulk Land Plat of Tanoan Properties
City Address, UPC, OR Parcel: UPC: 102206243250310203

Applicant/Agent: Fierro & Company Contact: Robert Fierro
Address: 3201 4th Street NW, Suite C Phone: 505-352-8930
Email: rfierro@fierrocompany.com

Applicant/Owner: _____ Contact: _____
Address: _____ Phone: _____
Email: _____

(Please note that a DFT SITE is one that needs Site Plan Approval & ADMIN SITE is one that does not need it.)

TYPE OF DEVELOPMENT: ☑ PLAT (#of lots) 9 ☐ RESIDENCE
☐ DFT SITE ☑ ADMIN SITE

RE-SUBMITTAL: ☑ YES ☐ NO

DEPARTMENT: ☐ TRANSPORTATION ☑ HYDROLOGY/DRAINAGE

Check all that apply under Both the Type of Submittal and the Type of Approval Sought:

TYPE OF SUBMITTAL:

- ☐ ENGINEER/ARCHITECT CERTIFICATION
- ☐ PAD CERTIFICATION
- ☐ CONCEPTUAL G&D PLAN
- ☑ GRADING & DRAINAGE PLAN
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE MASTER PLAN
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL) ADMINISTRATIVE
- ☐ TRAFFIC CIRCULATION LAYOUT FOR DFT APPROVAL
- ☐ TRAFFIC IMPACT STUDY (TIS)
- ☐ STREET LIGHT LAYOUT
- ☐ OTHER (SPECIFY)_____

TYPE OF APPROVAL SOUGHT:

- ☐ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY
- ☐ CONCEPTUAL TCL DFT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ SITE PLAN FOR BLDG PERMIT DFT 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
- ☐ OTHER (SPECIFY)_____

DATE SUBMITTED: 12/17/2024

REV. 09/13/23

Floodplain Development Permit Application

Planning Dept., City of Albuquerque

Section 1: General Provisions (Applicant to read and sign)

1. No work of any kind may start in a Special Flood Hazard Area, SFHA, until a permit is issued.
2. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal regulatory requirements.
3. Applicant hereby gives consent to the Floodplain Administrator and his/her representative to make reasonable inspections required to verify compliance.
4. Applicant must provide a Critical Habitat for Threatened & Endangered Species report prior to any work in a SFHA.
5. Applicant must provide the Base Flood Elevation, BFE, and must provide engineering calculations demonstrating that the development will not increase the BFE or result in increased flood risk on any neighboring property.
6. If this application is for a building the floodplain must be removed by first constructing any required storm drain and/or channel modifications and second acquiring a Letter of Map Revision, LOMR, from FEMA before a building permit will be issued. If storm drain and channel modifications are not involved then a draft Elevation Certificate must be submitted prior to Building Permit and a Final Elevation Certificate must be submitted prior to Certificate of Occupancy.
7. A Conditional Letter of Map Revision, CLOMR, is required prior to any work in the FLOODWAY, if applicable.
8. The applicant certifies that all statements herein and in attachments to this application are, to the best of my knowledge, true and accurate.

Applicant Signature Robert Fierro Date 12-17-2024

Applicant Printed Name Robert Fierro Phone #: (505) 503-9546

Owner Signature _____ Date _____

Owner Printed Name William Galbreth Phone #: (505) 506-9872

Applicant is (check one): Owner _____ Builder _____ Engineer/Architect ✓

Section 2: Proposed Development in Special Flood Hazard Area (to be completed by Applicant)

Project address/Legal Disc/Location: San Antonio Rd. NE

Tract N-7-A-1, of the Bulk LAND PLAT of Tract N-7-A-1, Tanoan Properties. Located on San Antonio Rd, with Tramway Blvd/Academy being closest main intersection.

Rev. March 2018

Section 2 (Cont.) - Description of Work in Special Flood Hazard Area (SFHA):

A. Building Development and Building Type

ACTIVITY	STRUCTURE TYPE
____New Building	____Residential (1-4 Family)
____Addition	____ Residential (More than 4 Family)
____Alteration	____Non Residential (Flood-proofing? ____Yes)
____Relocation	____Combined Use (Residential & Commercial)
___ Demolition	____Manufactured Home (In Mobile Home Park?____Yes)
____Replacement	

If an addition or alteration:

Estimated Cost of Project $_____

Estimated Value of structure before addition/alteration. $_____

Percent of value (new construction /existing value) _____%

B. Other Development Activities

____Clearing ✓ Grading ____ Utilities ____Paving

____Watercourse Alteration (Bridge or Channel Modification)

____Drainage Improvements (Storm drain or culverts)

____ Road, Street or Bridge Construction

____ Subdivision

____ Walls or Fences

____ Storage of Materials/Equipment for more than a year. (Materials Volume (cu. Ft.) _____)

Other (Please Specify) _____

Is there a Grading & Drainage Plan associated with this work? Yes ✓ No ____

Drainage file Number: E22D024

Section 3: Floodplain Determination (Completed by the Floodplain Administrator)

X The proposed development is located on FIRM Panel: 35001C0142

____The proposed development is located in Zone X and NO FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED.

X A portion of the proposed development is located in a SFHA but not any buildings so an approved G&D Plan is required (Engineer's Stamp Date 12/11/2024) prior to issuance of a Floodplain Development Permit and no Building Permit will be issued for this construction.

____A portion of the proposed Building is located in a SFHA but the project does not include any storm drain improvements and/or channel modifications so:

1. Approved G&D Plan is required (Engineer's Stamp Date_____) prior to issuance of a Floodplain Development Permit,
2. Draft Elevation Certificate (Date_____) is required prior to issuance of a Building Permit, and
3. Final Elevation Certificate and Engineer's Certification is required prior to Certificate of Occupancy.

____A portion of the proposed Building is located in a SFHA and the project includes storm drain improvements and/or channel modifications that will change the floodplain location so

1. An Approved Grading and Drainage Plan is required (Engineer's Stamp Date_____) prior to issuing a Flood Plain Development Permit and a Grading Permit and/or a Work Order.
2. The improvements must be constructed and an Approved Engineer's Certification (Engineer's Stamp Date_____) and an Approved LOMR Request (Engineer's Stamp Date_____) must be approved by Hydrology prior to approval of the LOMR application to FEMA.
3. The Floodplain must be removed by a LOMR from FEMA (Date_____) prior to issuance of a Building Permit.

____A portion of the proposed development is located in a FLOODWAY so:

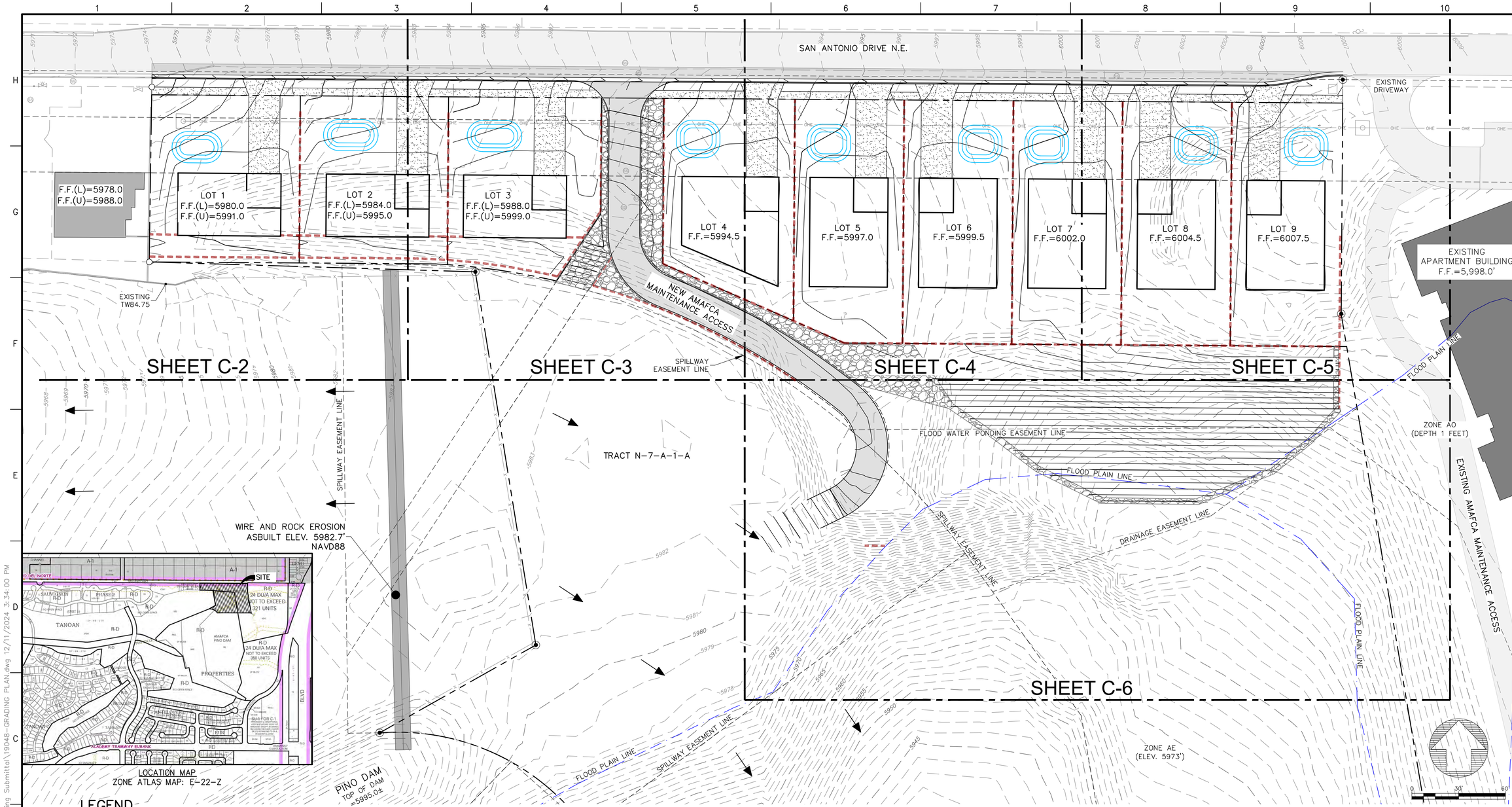
1. Approved G&D Plan (Engineer's Stamp Date_____) and an Approved CLOMR Request (Date_____) is required prior to approval of the application to FEMA, and
2. CLOMR from FEMA (Date_____) is required prior to issuance of a Floodplain Development Permit, a Grading Permit, and/or a Work Order.
3. The improvements must be constructed and an Approved Engineer's Certification (Engineer's Stamp Date_____) and an Approved LOMR Request (Engineer's Stamp Date_____) must be approved by Hydrology prior to approval of the LOMR application to FEMA (Date_____).
4. The Floodplain must be removed by a LOMR from FEMA (Date_____) prior to issuance of a Building Permit.

Drainage File Number: E22D024 Floodplain Permit Number: E22F024

Signed: Rudy Rael Date: 12/17/2024

Printed Name: Rudy E. Rael

Rev. March 2018



LOCATION MAP
ZONE ATLAS MAP: E-22-Z

LEGEND

- PROPERTY BOUNDARY
- EXISTING EASEMENT LINE
- ADJOINING PROPERTY LINE
- FLOOD PLAIN LINE
- PROPERTY CORNER
- 3905 EXISTING MAJOR CONTOUR
- 3904 EXISTING MINOR CONTOUR
- 3905 PROPOSED MAJOR CONTOUR
- 3904 PROPOSED MINOR CONTOUR
- RETAINING WALL
- STORM WATER QUALITY POND
- FLOWLINE
- C.M.U. CONCRETE MASONRY UNIT
- E.G. EXISTING GRADE
- E.G.L. ENERGY GRADE LINE
- F.G. FINISH GRADE
- F.F.(L) FINISHED FLOOR LOWER LEVEL
- F.F.(U) FINISHED FLOOR UPPER LEVEL
- R.T.W. RETAINING WALL
- PL PROPERTY LINE

GENERAL GRADING NOTES:

1. THE CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES SHOWN AND COORDINATE WITH ALL UTILITY OWNERS PRIOR TO ANY EXCAVATION.
2. THE CONTRACTOR SHALL LIMIT DISTURBANCE OF NATIVE VEGETATION TO A MINIMUM.
3. THIS PLAN RECOMMENDS POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES TO PROHIBIT PONDING OF RUNOFF WHICH MAY CAUSE STRUCTURAL SETTLEMENT. FUTURE ALTERATION OF GRADES ADJACENT TO THE PROPOSED STRUCTURES IS NOT RECOMMENDED.
4. PERFORM GRADING AND EXCAVATION WORK IN COMPLIANCE WITH APPLICABLE SPECIFICATIONS, REQUIREMENTS, CODES AND ORDINANCES OF CITY OF ALBUQUERQUE, NEW MEXICO.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF OR OBTAINING EXCESS CUT OR FILL MATERIAL REQUIRED FOR FINAL GRADE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH NEW MEXICO ONE CALL PRIOR EXCAVATION.
7. CLEAR AND GRUBBING PER NM APWA SECTION 201 SPECIFICATION.
8. SPOT ELEVATIONS ARE TO FINISH GRADE UNLESS NOTED OTHERWISE.
9. THE CONTRACTOR SHALL CONFINE THEIR WORK TO WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY TO PRESERVE EXISTING VEGETATION, LANDSCAPING, AND PRIVATE PROPERTY. APPROVAL OF THESE PLANS DOES NOT GIVE OR IMPLY ANY PERMISSION TO TRESPASS OR WORK ON PRIVATE PROPERTY. PERMISSION MUST BE GRANTED IN WRITING BY THE OWNER OF THAT PROPERTY.
10. CONTRACTOR TO CLEAN UP SEDIMENT AND DEBRIS ON THE STREET, WHICH IS CAUSED BY CONSTRUCTION, AT THE END OF EACH WORK DAY TEMPORARY DIRT RAMPS ARE NOT TO BE LEFT IN STREETS OR NEAR CURB.

PROJECT INFORMATION

BENCHMARK

CITY OF ALBUQUERQUE SURVEY MONUMENT: ACS BM, 5-D22
NORTHING: 1514036.991 (NM SPC, CENTRAL ZONE, NAD 1983)
EASTING: 1563586.296 (NM SPC, CENTRAL ZONE, NAD 1983)
ELEVATION: 5917.306' (NAVD 1988, U.S. SURVEY FOOT)

DESCRIPTION

TRACT N-7-A-1, BULK LAND PLAT OF TRACT N-7-A-1, TANOAN PROPERTIES

FLOOD NOTE:

THIS PROPERTY LIES WITHIN FLOOD ZONE X WHICH IS DEFINED AS AN AREA OF MINIMAL FLOOD HAZARD. AS DETERMINED BY F.E.M.A. AND SHOWN ON THE FLOOD INSURANCE RATE MAP DATED AUGUST 16, 2012, MAP NO. 35001C0142H.

SURVEYOR INFORMATION

TOPOGRAPHIC SURVEY PERFORMED APRIL 2024.

EST. UNADJUSTED EARTHWORK VOLUMES

(EXCLUDING SUB EXCAVATIONS AND SHRINK/SWELL FACTORS)
CUT = 2,900 C.Y.
FILL = 9,400 C.Y.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans #: E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT ANY INFRINGEMENT OF ANY LAW, RULE, REGULATION, OR ORDINANCE OF THE CITY OF ALBUQUERQUE. NOR SHALL IT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DEFICIENCIES IN PLANS, SPECIFICATIONS, OR CONSTRUCTION. THE APPROVED PLANS AND SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

AMAFCA APPROVAL: JARED ROMERO For grading approval only 12/13/2024 DATE

Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO NEW MEXICO 20585 12-11-24 PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

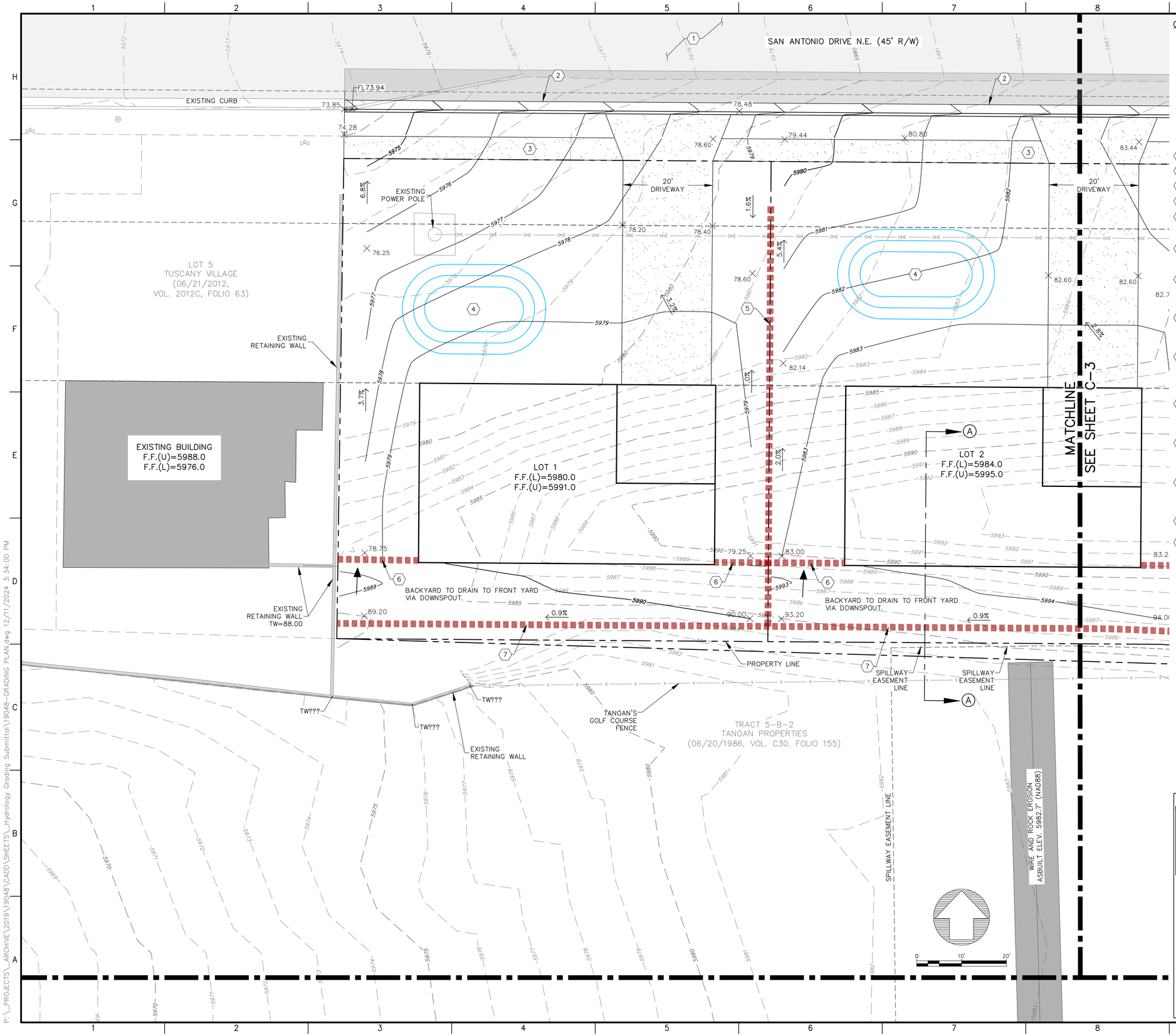
REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	DECEMBER 2024

SHEET TITLE
GRADING PLAN

SHEET NO: C-1

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-GRADING PLAN.dwg 12/11/2024 3:34:00 PM



GENERAL NOTES:

1) THIS GRADING PLAN IS PREPARED TO ESTABLISH FINISH FLOOR ELEVATIONS, RETAINING WALL HEIGHTS, AND OVERALL GRADING. EACH LOT REQUIRES SEPERATE GRADING PLAN FOR BUILDING PERMIT.

2) ALL RETAINING WALLS TO BE CONSTRUCTED UNDER A CITY OF ALBUQUERQUE'S RETAINING WALL PERMIT. STRUCTURAL DESIGN IS BY OTHERS AND WILL NEED TO BE APPROVED BY CITY OF ALBUQUERQUE AND AMAFCA.

3) THE ENTIRE AREA OF LOTS 1–9 IS REQUIRED TO DRAIN TO SAN ANTONIO DRIVE INCLUDING ROOF DRAINAGE AND BACKYARD.

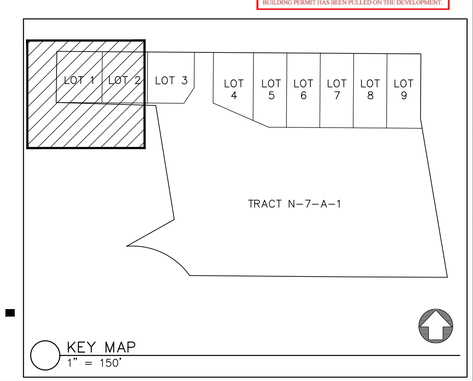
KEYED NOTES:

1. EXISTING ASPHALT.
2. NEW CURB & GUTTER PER CITY WORK ORDER.
3. NEW 5' SIDEWALK PER CITY WORK ORDER.
4. STORM WATER QUALITY POND PER BUILDING PERMIT.
5. CONSTRUCT SIDE YARD RETAINING WALL W/PRIVACY WALL.
   TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 1/C–7.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
6. CONSTRUCT RETAINING WALL W/PRIVACY WALL.
   TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 2/C–7.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
7. CONSTRUCT RETAINING WALL No.1
   REFER TO PLAN & PROFILE ON SHEET C–8.
   TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–9
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
8. CONSTRUCT RETAINING WALL No.1
   REFER TO PLAN & PROFILE ON SHEET C–8.
   TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–9.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
9. CONSTRUCT RETAINING WALL No.2 W/PRIVACY WALL
   REFER TO PLAN & PROFILE ON SHEET C–10.
   TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–11.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
   REAR LOT WALL GRADE 2% SLOPE FOR FIRST 5' SOUTH OF WALL.
10. CONSTRUCT RETAINING WALL No.3 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–12.
    TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–12.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
11. CONSTRUCT RETAINING WALL No.4 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–13.
    TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–14.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
12. CONSTRUCT RETAINING WALL No.5 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–13.
    REFER TO TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–14.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
13. AMAFCA ACCESS ROAD AND GATE TO BE CONSTRUCTED UNDER CITY WORK ORDER.
14. ARMOR SWALES AND SLOPES. STABILIZE SLOPES PER THE FOLLOWING CRITERIA AS LISTED BELOW AND IN PART 6–4(E) MEANS OF EROSION CONTROL OF CITY OF ALBUQUERQUE'S DEVELOPMENT PROCESS MANUAL.
    –SLOPES BETWEEN 3H:1V TO 4H:1V
    PROTECT WITH ½" OR LARGER ROCK
    –SLOPES BETWEEN 2.5H:1V TO 3H:1V
    PROTECT WITH 1.5" ANGULAR ROCK
    –SLOPES BETWEEN 2H:1V TO 2.5H:1V
    PROTECT WITH 4" MINIMUM ANGULAR HAND–PLACED WITH NO LANDSCAPE FABRIC
    –SLOPES BETWEEN 1.5H TO 2H:1V
    PROTECT WITH 6" OR LARGER ANGULAR STONE HAND PLACED WITH NO LANDSCAPE FABRIC.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans #: E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE INTERPRETED TO BE A WAIVER OF ANY RIGHTS OR OBLIGATIONS OF IN FAVOR OF, AND SHALL NOT PREVENT ENFORCEMENT OF THE CITY'S RIGHT TO REQUIRE CORRECTION, OR ERROR OR OMISSION IN PLANS, SPECIFICATIONS, OR ESTIMATES. THE APPROVAL OF PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



KEY MAP
1" = 150'

Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352–8930
www.fierrocompany.com

ENGINEER'S SEAL

ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME

TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

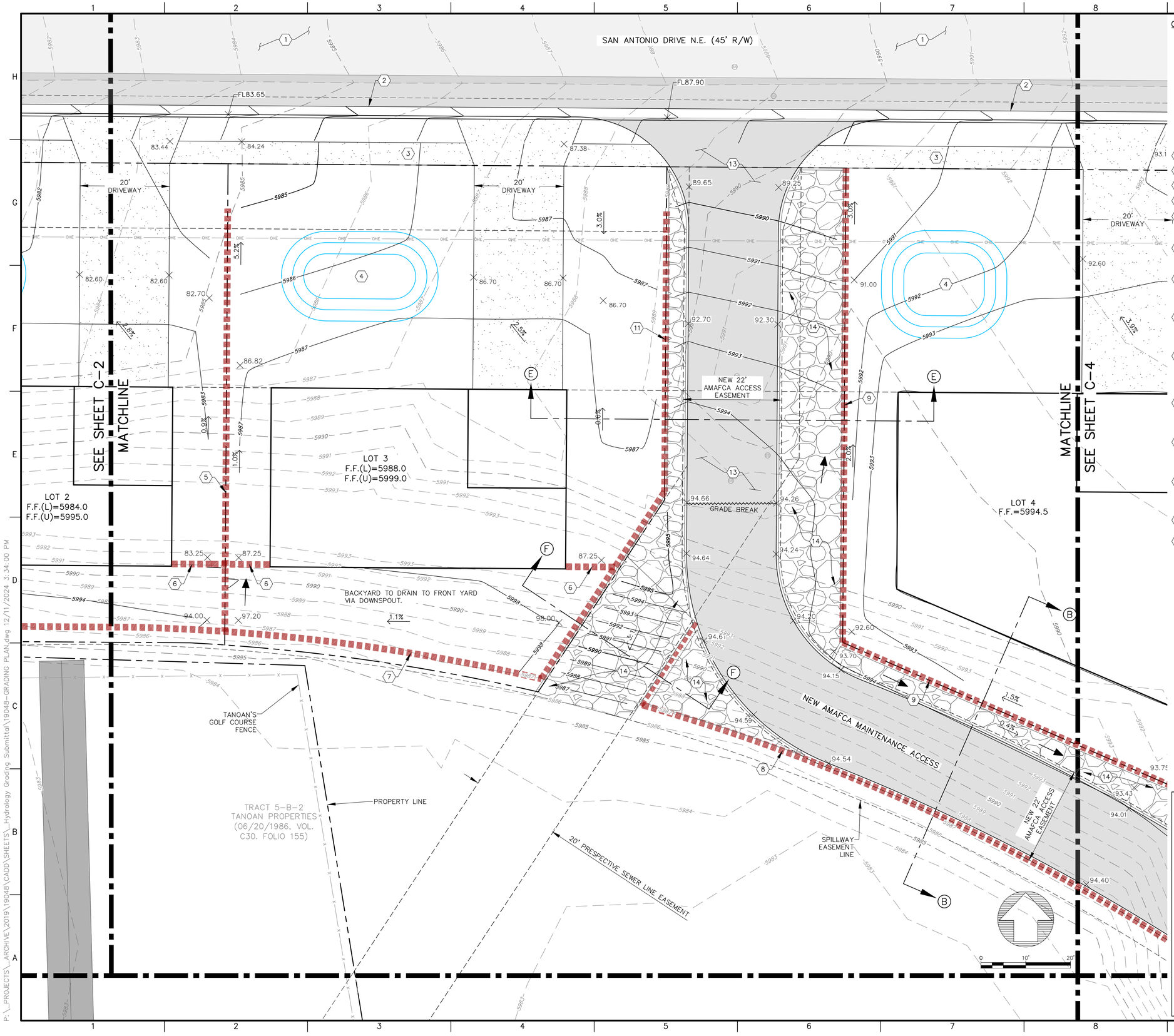
SHEET TITLE

GRADING PLAN DETAIL

SHEET NO:

C-2

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-GRADING PLAN.dwg 12/11/2024 3:34:00 PM



GENERAL NOTES:

1) THIS GRADING PLAN IS PREPARED TO ESTABLISH FINISH FLOOR ELEVATIONS, RETAINING WALL HEIGHTS, AND OVERALL GRADING. EACH LOT REQUIRES SEPERATE GRADING PLAN FOR BUILDING PERMIT.

2) ALL RETAINING WALLS TO BE CONSTRUCTED UNDER A CITY OF ALBUQUERQUE'S RETAINING WALL PERMIT. STRUCTURAL DESIGN IS BY OTHERS AND WILL NEED TO BE APPROVED BY CITY OF ALBUQUERQUE AND AMAFCA.

3) THE ENTIRE AREA OF LOTS 1–9 IS REQUIRED TO DRAIN TO SAN ANTONIO DRIVE INCLUDING ROOF DRAINAGE AND BACKYARD.

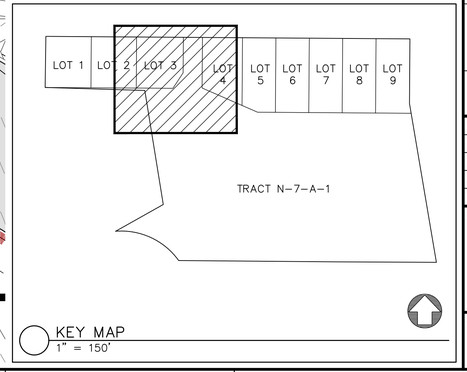
KEYED NOTES:

1. EXISTING ASPHALT.
2. NEW CURB & GUTTER PER CITY WORK ORDER.
3. NEW 5' SIDEWALK PER CITY WORK ORDER.
4. STORM WATER QUALITY POND PER BUILDING PERMIT.
5. CONSTRUCT SIDE YARD RETAINING WALL W/PRIVACY WALL.
   TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 1/C–7.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
6. CONSTRUCT RETAINING WALL W/PRIVACY WALL.
   TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 2/C–7.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
7. CONSTRUCT RETAINING WALL No.1
   REFER TO PLAN & PROFILE ON SHEET C–8.
   TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–9
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
8. CONSTRUCT RETAINING WALL No.1
   REFER TO PLAN & PROFILE ON SHEET C–8.
   TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–9.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
9. CONSTRUCT RETAINING WALL No.2 W/PRIVACY WALL
   REFER TO PLAN & PROFILE ON SHEET C–10.
   TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–11.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
   REAR LOT WALL GRADE 2% SLOPE FOR FIRST 5' SOUTH OF WALL.
10. CONSTRUCT RETAINING WALL No.3 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–12.
    TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–12.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
11. CONSTRUCT RETAINING WALL No.4 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–13.
    TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–14.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
12. CONSTRUCT RETAINING WALL No.5 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–13.
    REFER TO TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–14.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
13. AMAFCA ACCESS ROAD AND GATE TO BE CONSTRUCTED UNDER CITY WORK ORDER.
14. ARMOR SWALES AND SLOPES. STABILIZE SLOPES PER THE FOLLOWING CRITERIA AS LISTED BELOW AND IN PART 6–4(E) MEANS OF EROSION CONTROL OF CITY OF ALBUQUERQUE'S DEVELOPMENT PROCESS MANUAL.
    –SLOPES BETWEEN 3H:1V TO 4H:1V
    PROTECT WITH ¾" OR LARGER ROCK
    –SLOPES BETWEEN 2.5H:1V TO 3H:1V
    PROTECT WITH 1.5" ANGULAR ROCK
    –SLOPES BETWEEN 2H:1V TO 2.5H:1V
    PROTECT WITH 4" MINIMUM ANGULAR HAND–PLACED WITH NO LANDSCAPE FABRIC
    –SLOPES BETWEEN 1.5H TO 2H:1V
    PROTECT WITH 6" OR LARGER ANGULAR STONE HAND PLACED WITH NO LANDSCAPE FABRIC.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans #: E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE OR FEDERAL LAW. NEITHER THE CITY OF ALBUQUERQUE NOR ANY OFFICIAL CONSENTING TO OR EFFECTS THE ISSUANCE OF THESE PLANS/REPORT SHALL BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS CONTAINED THEREIN. THE PLANS/REPORT SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT THE APPROVAL OF THE CITY.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



KEY MAP
1" = 150'

Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352–8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

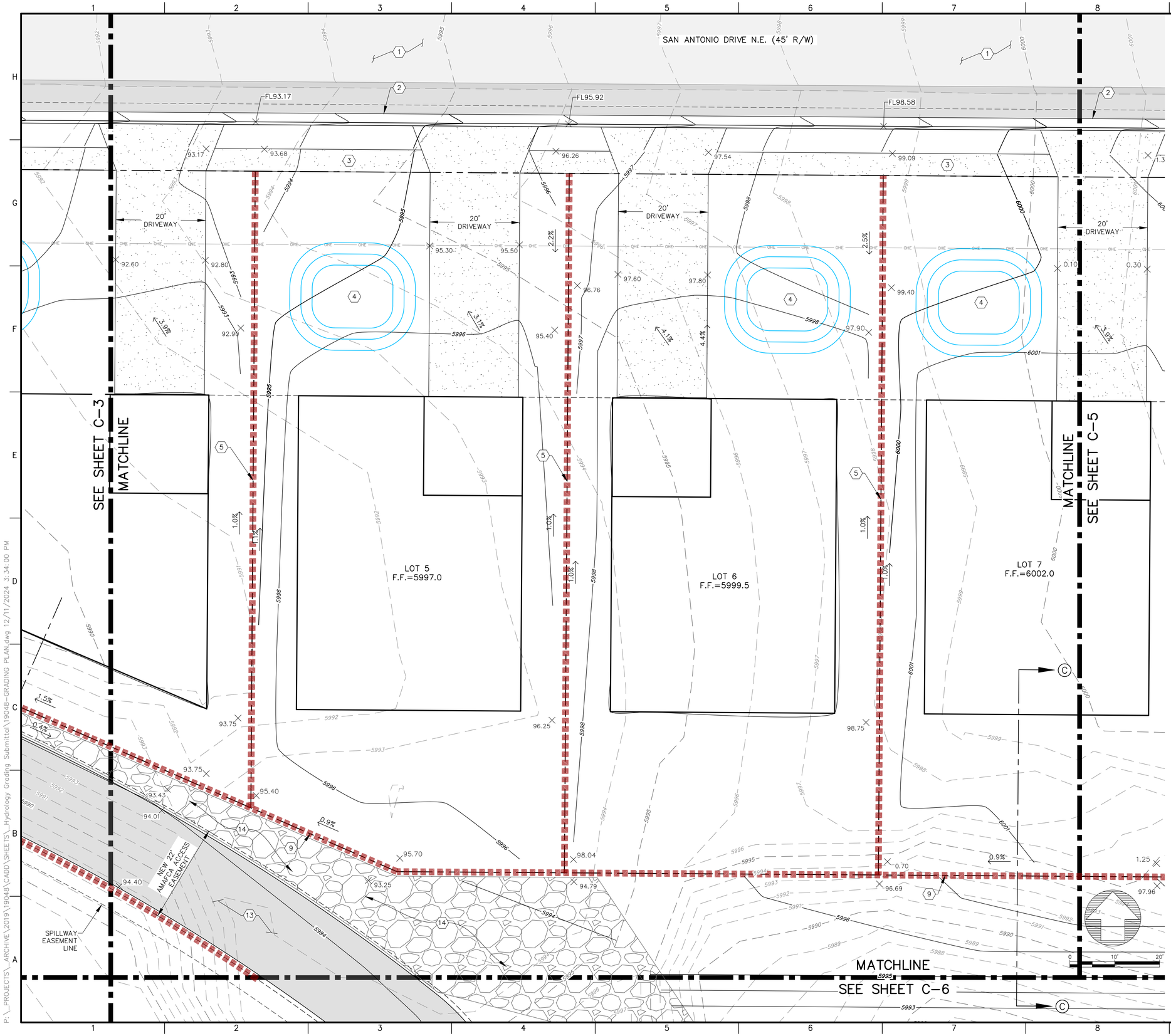
REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE
GRADING PLAN DETAIL

SHEET NO:
C-3

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048–GRADING PLAN.dwg 12/11/2024 3:34:00 PM



GENERAL NOTES:

1) THIS GRADING PLAN IS PREPARED TO ESTABLISH FINISH FLOOR ELEVATIONS, RETAINING WALL HEIGHTS, AND OVERALL GRADING. EACH LOT REQUIRES SEPERATE GRADING PLAN FOR BUILDING PERMIT.

2) ALL RETAINING WALLS TO BE CONSTRUCTED UNDER A CITY OF ALBUQUERQUE'S RETAINING WALL PERMIT. STRUCTURAL DESIGN IS BY OTHERS AND WILL NEED TO BE APPROVED BY CITY OF ALBUQUERQUE AND AMAFCA.

3) THE ENTIRE AREA OF LOTS 1–9 IS REQUIRED TO DRAIN TO SAN ANTONIO DRIVE INCLUDING ROOF DRAINAGE AND BACKYARD.

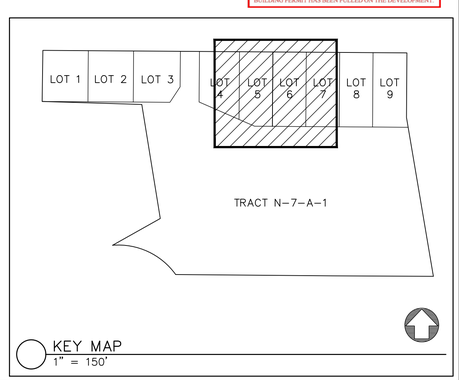
KEYED NOTES:

1. EXISTING ASPHALT.
2. NEW CURB & GUTTER PER CITY WORK ORDER.
3. NEW 5' SIDEWALK PER CITY WORK ORDER.
4. STORM WATER QUALITY POND PER BUILDING PERMIT.
5. CONSTRUCT SIDE YARD RETAINING WALL W/PRIVACY WALL.
   TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 1/C–7.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
6. CONSTRUCT RETAINING WALL W/PRIVACY WALL.
   TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 2/C–7.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
7. CONSTRUCT RETAINING WALL No.1
   REFER TO PLAN & PROFILE ON SHEET C–8.
   TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–9
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
8. CONSTRUCT RETAINING WALL No.1
   REFER TO PLAN & PROFILE ON SHEET C–8.
   TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–9.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
9. CONSTRUCT RETAINING WALL No.2 W/PRIVACY WALL
   REFER TO PLAN & PROFILE ON SHEET C–10.
   TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–11.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
   REAR LOT WALL GRADE 2% SLOPE FOR FIRST 5' SOUTH OF WALL.
10. CONSTRUCT RETAINING WALL No.3 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–12.
    TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–12.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
11. CONSTRUCT RETAINING WALL No.4 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–13.
    TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–14.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
12. CONSTRUCT RETAINING WALL No.5 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–13.
    REFER TO TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–14.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
13. AMAFCA ACCESS ROAD AND GATE TO BE CONSTRUCTED UNDER CITY WORK ORDER.
14. ARMOR SWALES AND SLOPES. STABILIZE SLOPES PER THE FOLLOWING CRITERIA AS LISTED BELOW AND IN PART 6–4(E) MEANS OF EROSION CONTROL OF CITY OF ALBUQUERQUE'S DEVELOPMENT PROCESS MANUAL.
    –SLOPES BETWEEN 3H:1V TO 4H:1V
    PROTECT WITH ¾" OR LARGER ROCK
    –SLOPES BETWEEN 2.5H:1V TO 3H:1V
    PROTECT WITH 1.5" ANGULAR ROCK
    –SLOPES BETWEEN 2H:1V TO 2.5H:1V
    PROTECT WITH 4" MINIMUM ANGULAR HAND–PLACED WITH NO LANDSCAPE FABRIC
    –SLOPES BETWEEN 1.5H TO 2H:1V
    PROTECT WITH 6" OR LARGER ANGULAR STONE HAND PLACED WITH NO LANDSCAPE FABRIC.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans #: E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO ALTER, VIOLATE, OR ESTABLISH A VARIANCE FROM ORDINANCES OR POLICIES CITY AND SHALL NOT PRECLUDE THE ADOPTION OF ANY ORDINANCE OR POLICY AFFECTING THE SUBDIVISION, OR ERRORS OR OMISSIONS IN PLANS, SPECIFICATIONS OR ESTIMATES. THE APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED, REPORTED OR ALLEGED REPUGNANT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



KEY MAP
1" = 150'

Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352–8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

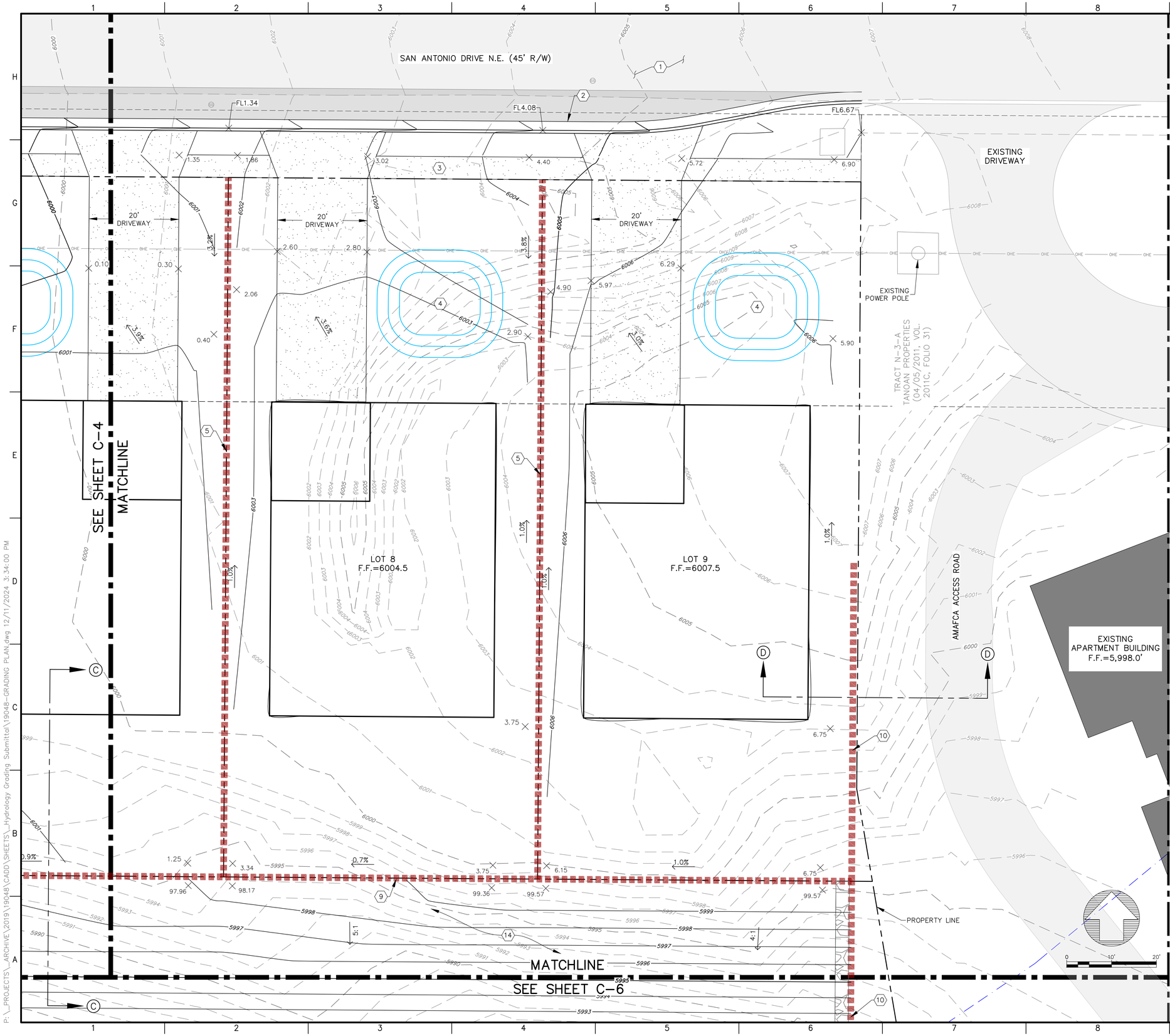
REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE
GRADING PLAN DETAIL

SHEET NO:
C-4

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-GRADING PLAN.dwg 12/11/2024 3:34:00 PM



GENERAL NOTES:

1) THIS GRADING PLAN IS PREPARED TO ESTABLISH FINISH FLOOR ELEVATIONS, RETAINING WALL HEIGHTS, AND OVERALL GRADING. EACH LOT REQUIRES SEPERATE GRADING PLAN FOR BUILDING PERMIT.

2) ALL RETAINING WALLS TO BE CONSTRUCTED UNDER A CITY OF ALBUQUERQUE'S RETAINING WALL PERMIT. STRUCTURAL DESIGN IS BY OTHERS AND WILL NEED TO BE APPROVED BY CITY OF ALBUQUERQUE AND AMAFCA.

3) THE ENTIRE AREA OF LOTS 1–9 IS REQUIRED TO DRAIN TO SAN ANTONIO DRIVE INCLUDING ROOF DRAINAGE AND BACKYARD.

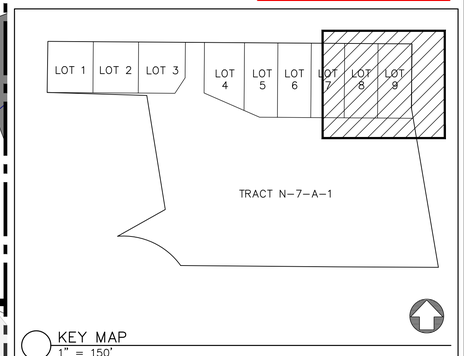
KEYED NOTES:

1. EXISTING ASPHALT.
2. NEW CURB & GUTTER PER CITY WORK ORDER.
3. NEW 5' SIDEWALK PER CITY WORK ORDER.
4. STORM WATER QUALITY POND PER BUILDING PERMIT.
5. CONSTRUCT SIDE YARD RETAINING WALL W/PRIVACY WALL.
   TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 1/C–7.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
6. CONSTRUCT RETAINING WALL W/PRIVACY WALL.
   TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 2/C–7.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
7. CONSTRUCT RETAINING WALL No.1
   REFER TO PLAN & PROFILE ON SHEET C–8.
   TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–9
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
8. CONSTRUCT RETAINING WALL No.1
   REFER TO PLAN & PROFILE ON SHEET C–8.
   TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–9.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
9. CONSTRUCT RETAINING WALL No.2 W/PRIVACY WALL
   REFER TO PLAN & PROFILE ON SHEET C–10.
   TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–11.
   RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
   REAR LOT WALL GRADE 2% SLOPE FOR FIRST 5' SOUTH OF WALL.
10. CONSTRUCT RETAINING WALL No.3 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–12.
    TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–12.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
11. CONSTRUCT RETAINING WALL No.4 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–13.
    TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–14.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
12. CONSTRUCT RETAINING WALL No.5 W/PRIVACY WALL
    REFER TO PLAN & PROFILE ON SHEET C–13.
    REFER TO TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–14.
    RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
13. AMAFCA ACCESS ROAD AND GATE TO BE CONSTRUCTED UNDER CITY WORK ORDER.
14. ARMOR SWALES AND SLOPES. STABILIZE SLOPES PER THE FOLLOWING CRITERIA AS LISTED BELOW AND IN PART 6–4(E) MEANS OF EROSION CONTROL OF CITY OF ALBUQUERQUE'S DEVELOPMENT PROCESS MANUAL.
    –SLOPES BETWEEN 3H:1V TO 4H:1V
    PROTECT WITH 3" OR LARGER ROCK
    –SLOPES BETWEEN 2.5H:1V TO 3H:1V
    PROTECT WITH 1.5" ANGULAR ROCK
    –SLOPES BETWEEN 2H:1V TO 2.5H:1V
    PROTECT WITH 4" MINIMUM ANGULAR HAND–PLACED WITH NO LANDSCAPE FABRIC
    –SLOPES BETWEEN 1.5H TO 2H:1V
    PROTECT WITH 6" OR LARGER ANGULAR STONE HAND PLACED WITH NO LANDSCAPE FABRIC.

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans #: E22D024

THE APPROVAL OF THIS PLAN/REPORT SHALL NOT BE ASSUMED TO PERMIT VIOLATION OF ANY CITY ORDINANCE OR ANY OTHER LAW ENFORCED BY THE CITY OF ALBUQUERQUE FROM ERRORS, CORRECTION, OR OMITTED DIMENSIONS IN PLANS, SPECIFICATIONS, OR ANY OTHER DOCUMENTS. PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



KEY MAP
1" = 150'

Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352–8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE
GRADING PLAN DETAIL

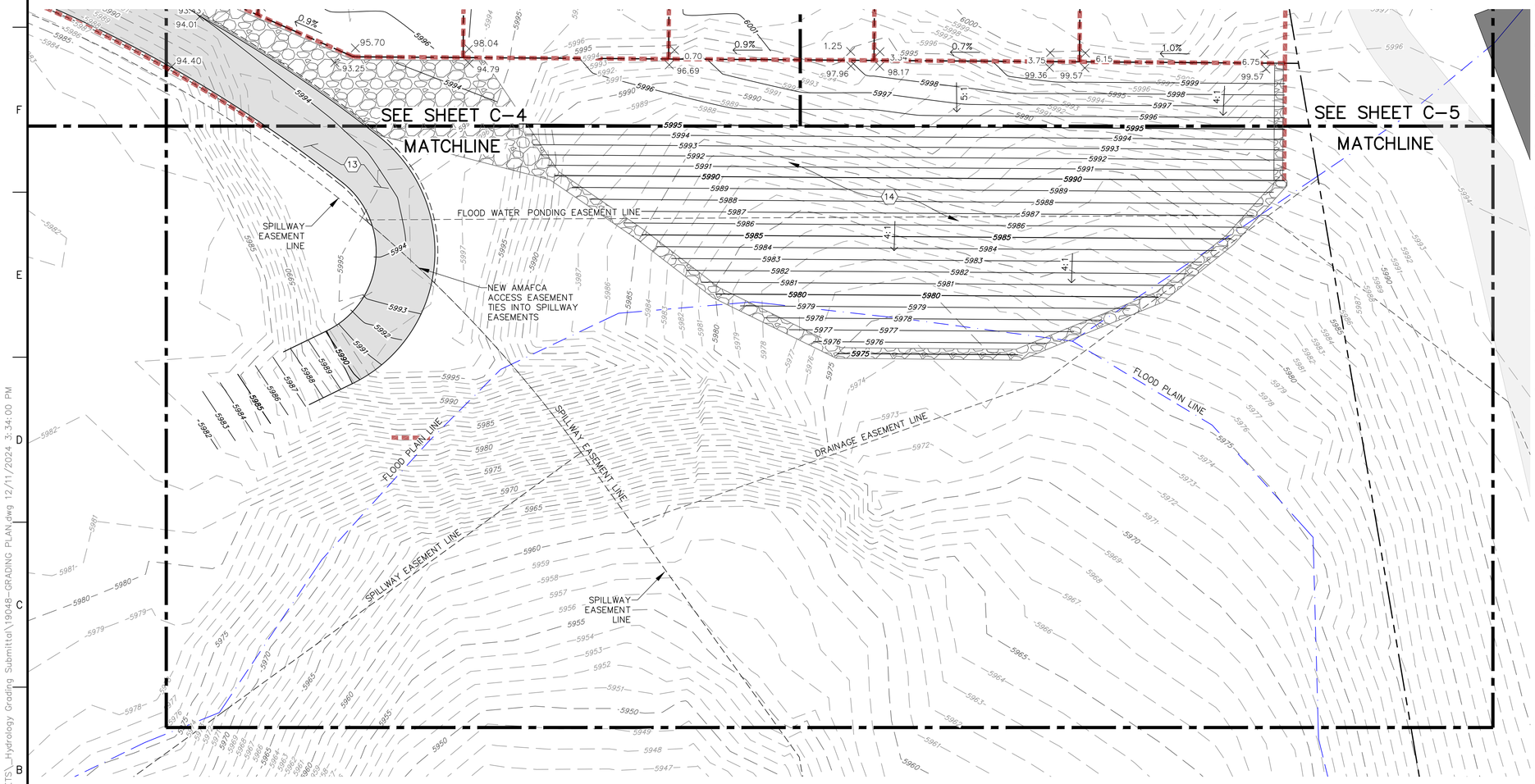
SHEET NO:
C-5

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048–GRADING PLAN.dwg 12/11/2024 3:34:00 PM

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans # E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE OR FEDERAL LAW. NEITHER THE CITY OF ALBUQUERQUE NOR ANY OFFICIAL OR EMPLOYEE THEREOF HAS THE AUTHORITY TO WAIVE SPECIFICATIONS, OR CONSTRUCTIONS, SUCH APPROVED PLANS SHALL NOT BE CONSTRUCTED OTHERWISE THAN AS ALLOWED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



GENERAL NOTES:

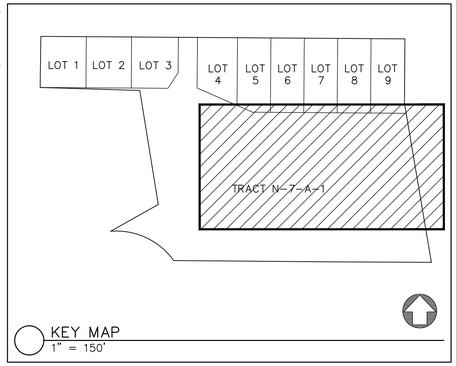
1) THIS GRADING PLAN IS PREPARED TO ESTABLISH FINISH FLOOR ELEVATIONS, RETAINING WALL HEIGHTS, AND OVERALL GRADING. EACH LOT REQUIRES SEPERATE GRADING PLAN FOR BUILDING PERMIT.

2) ALL RETAINING WALLS TO BE CONSTRUCTED UNDER A CITY OF ALBUQUERQUE'S RETAINING WALL PERMIT. STRUCTURAL DESIGN IS BY OTHERS AND WILL NEED TO BE APPROVED BY CITY OF ALBUQUERQUE AND AMAFCA.

3) THE ENTIRE AREA OF LOTS 1–9 IS REQUIRED TO DRAIN TO SAN ANTONIO DRIVE INCLUDING ROOF DRAINAGE AND BACKYARD.

KEYED NOTES:

1. EXISTING ASPHALT.
2. NEW CURB & GUTTER PER CITY WORK ORDER.
3. NEW 5' SIDEWALK PER CITY WORK ORDER.
4. STORM WATER QUALITY POND PER BUILDING PERMIT.
5. CONSTRUCT SIDE YARD RETAINING WALL W/PRIVACY WALL. TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 1/C–7. RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
6. CONSTRUCT RETAINING WALL W/PRIVACY WALL. TYPICAL RETAINING WALL NOMENCLATURE PER DETAIL 2/C–7. RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
7. CONSTRUCT RETAINING WALL No.1 REFER TO PLAN & PROFILE ON SHEET C–8. TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–9 RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
8. CONSTRUCT RETAINING WALL No.1 REFER TO PLAN & PROFILE ON SHEET C–8. TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–9. RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
9. CONSTRUCT RETAINING WALL No.2 W/PRIVACY WALL REFER TO PLAN & PROFILE ON SHEET C–10. TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–11. RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS. REAR LOT WALL GRADE 2% SLOPE FOR FIRST 5' SOUTH OF WALL.
10. CONSTRUCT RETAINING WALL No.3 W/PRIVACY WALL REFER TO PLAN & PROFILE ON SHEET C–12. TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–12. RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
11. CONSTRUCT RETAINING WALL No.4 W/PRIVACY WALL REFER TO PLAN & PROFILE ON SHEET C–13. TYPICAL RETAINING WALL NOMENCLATURE PER 1/C–14. RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
12. CONSTRUCT RETAINING WALL No.5 W/PRIVACY WALL REFER TO PLAN & PROFILE ON SHEET C–13. REFER TO TYPICAL RETAINING WALL NOMENCLATURE PER 2/C–14. RETAINING WALL PERMIT REQUIRED. STRUCTURAL DESIGN BY OTHERS.
13. AMAFCA ACCESS ROAD AND GATE TO BE CONSTRUCTED UNDER CITY WORK ORDER.
14. ARMOR SWALES AND SLOPES. STABILIZE SLOPES PER THE FOLLOWING CRITERIA AS LISTED BELOW AND IN PART 6–4(E) MEANS OF EROSION CONTROL OF CITY OF ALBUQUERQUE'S DEVELOPMENT PROCESS MANUAL.
    - –SLOPES BETWEEN 3H:1V TO 4H:1V
      PROTECT WITH 3" OR LARGER ROCK
    - –SLOPES BETWEEN 2.5H:1V TO 3H:1V
      PROTECT WITH 1.5" ANGULAR ROCK
    - –SLOPES BETWEEN 2H:1V TO 2.5H:1V
      PROTECT WITH 4" MINIMUM ANGULAR HAND–PLACED WITH NO LANDSCAPE FABRIC
    - –SLOPES BETWEEN 1.5H TO 2H:1V
      PROTECT WITH 6" OR LARGER ANGULAR STONE HAND PLACED WITH NO LANDSCAPE FABRIC.



KEY MAP
1" = 150'

0 20' 40'

Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352–8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE
GRADING PLAN DETAIL

SHEET NO:
C-6

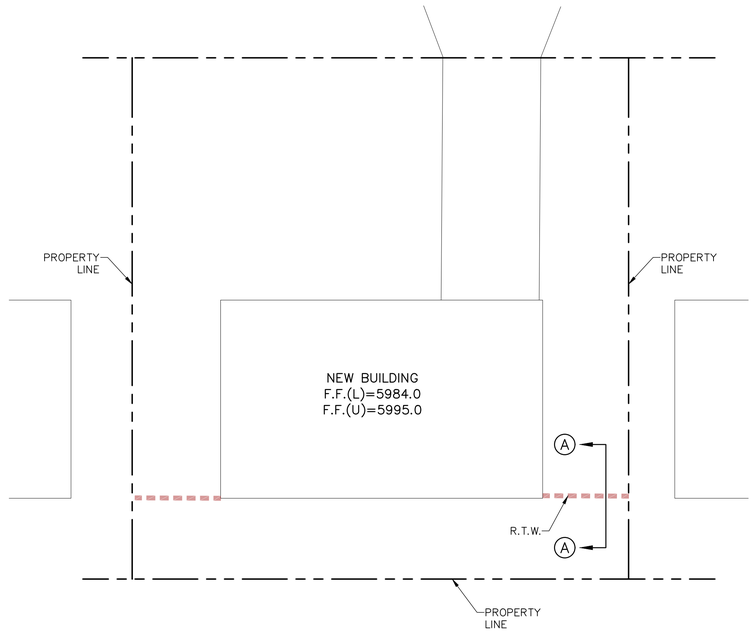
P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048–GRADING PLAN.dwg 12/11/2024 3:34:00 PM

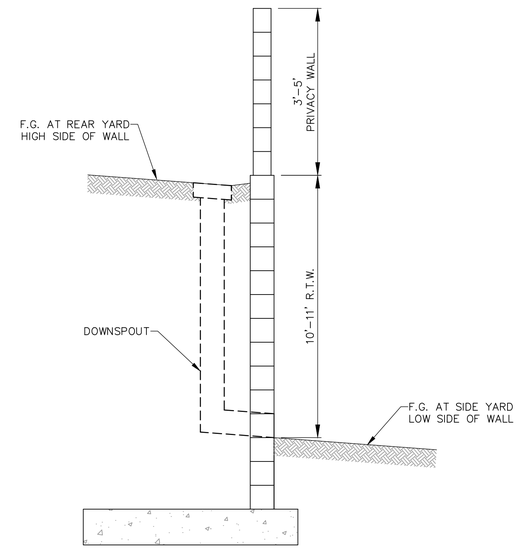
City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED

DATE: 12-19-2024
BY:
HydroTrans # E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE OR FEDERAL LAW. THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DIMENSIONS IN PLANS, SPECIFICATIONS OR CALCULATIONS. ALL PROVISIONS OF ORDINANCES SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

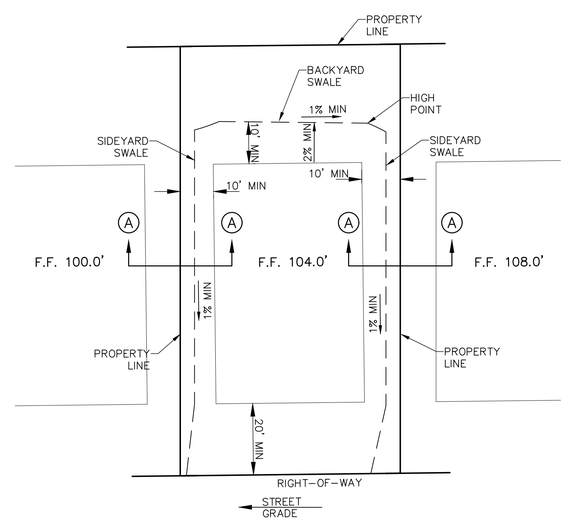
APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

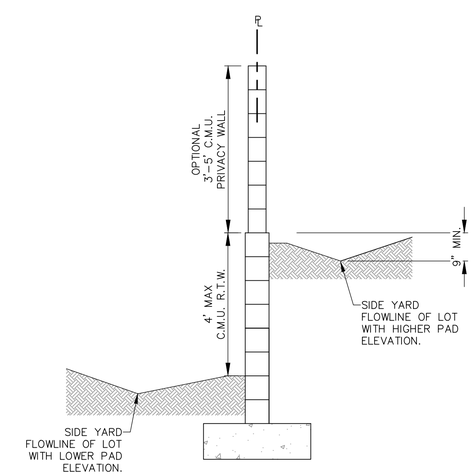




SECTION A–A
(TYPICAL RETAINING WALL NOMENCLATURE)

2 TYPICAL RETAINING WALL NOMENCLATURE (LOTS 1–3)
SCALE: NTS





SECTION A–A
(TYPICAL RETAINING WALL NOMENCLATURE)

1 TYPICAL LOT GRADING DETAIL W/.TYPPICAL SIDE YARD RETAINING WALL NOMENCLATURE
SCALE: NTS

Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

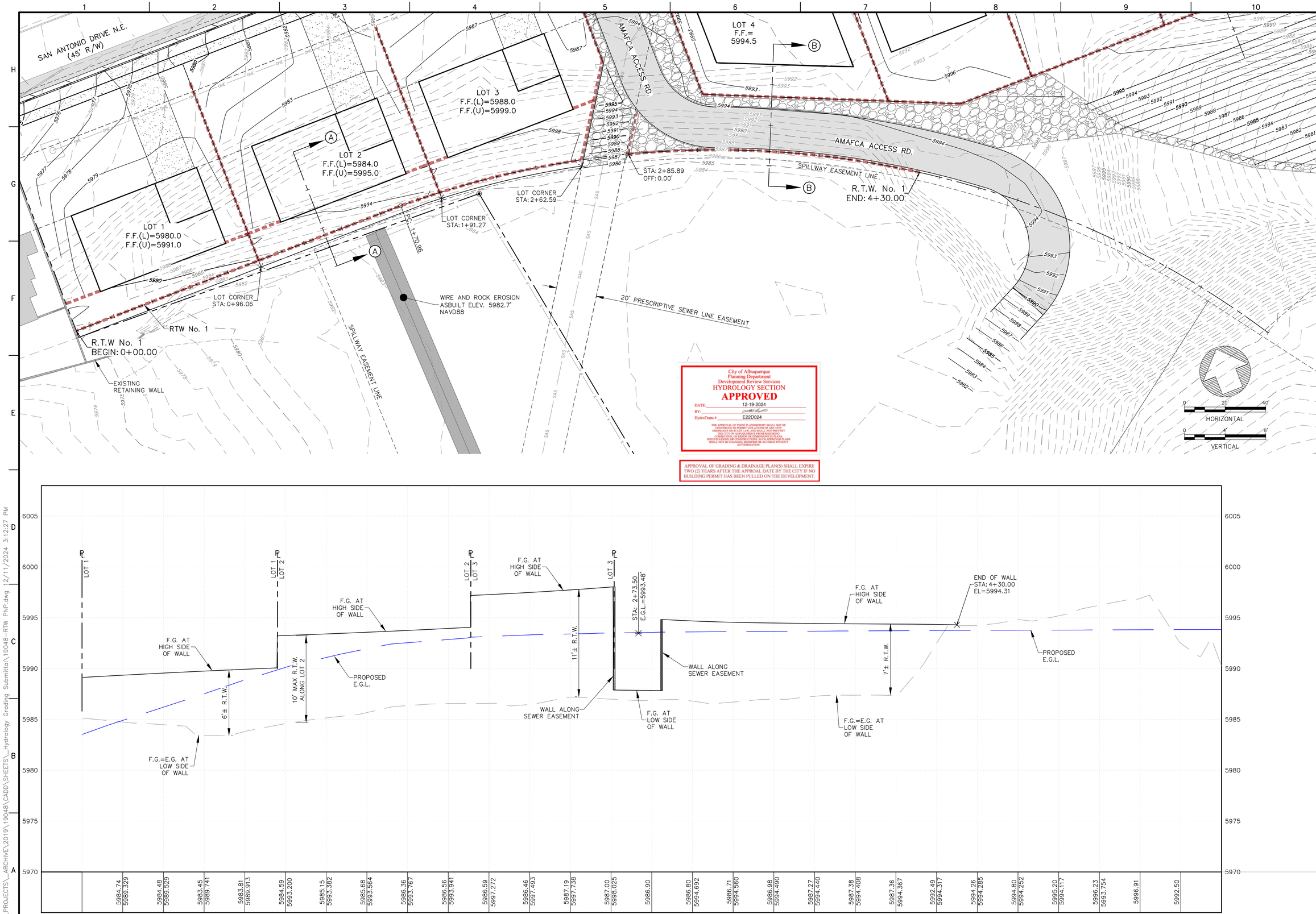
REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE
TYPICAL SECTIONS

SHEET NO:
C-7

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-GRADING PLAN.dwg 12/11/2024 3:34:00 PM



Fierro&Company
ENGINEERING | SURVEYING
3201 4TH STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL

ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME

TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE

R.T.W. No. 1
PLAN & PROFILE

SHEET NO:

C-8

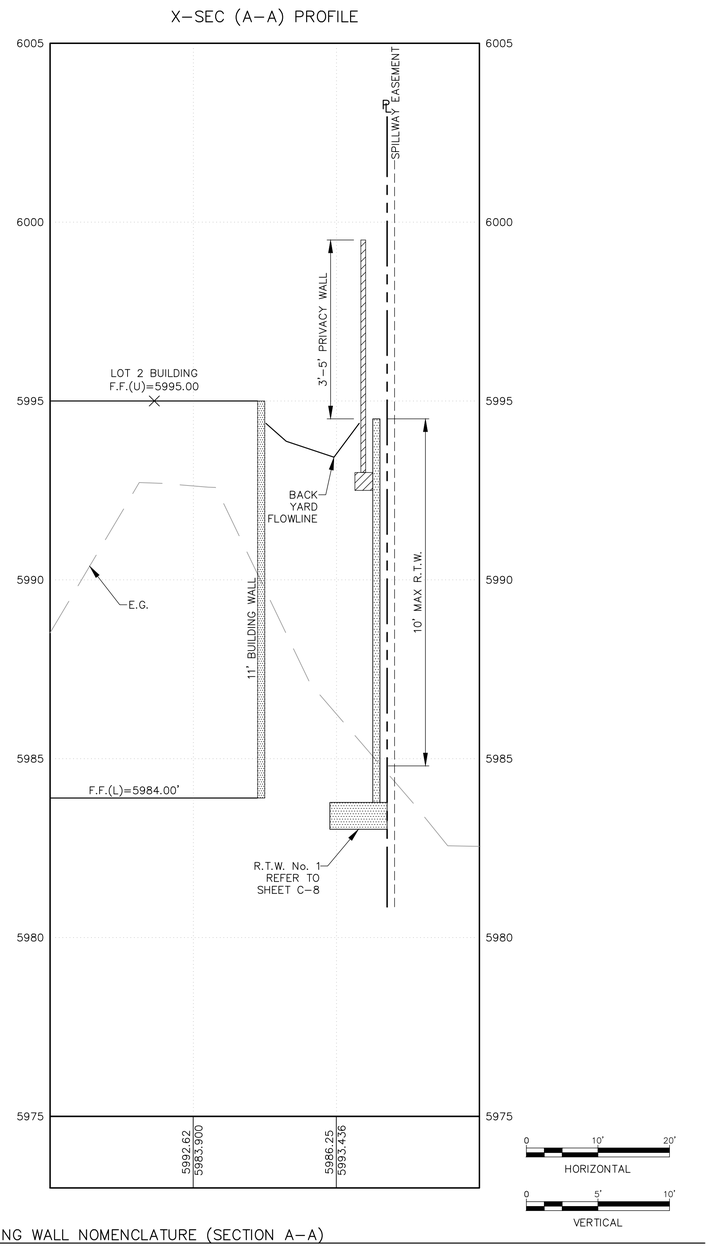
P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-RTW PNP.dwg 12/11/2024 3:12:27 PM

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED

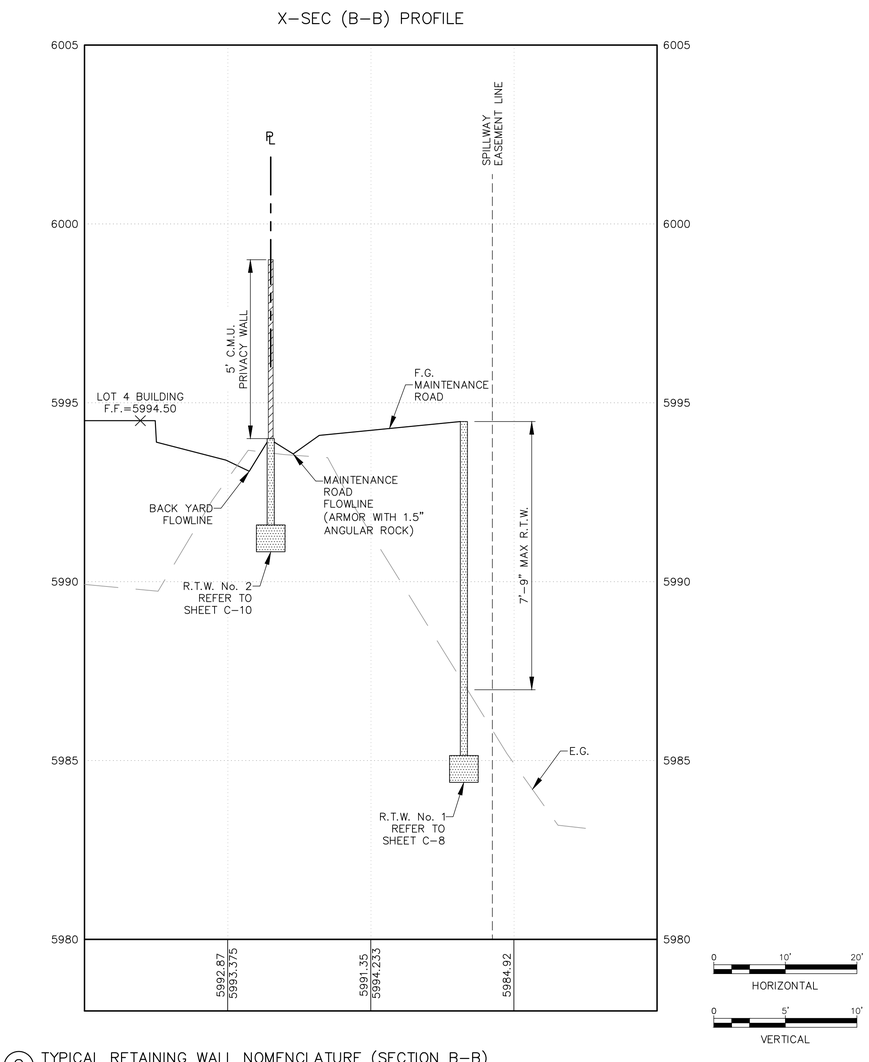
DATE: 12-19-2024
BY: [illegible]
HydroTrans # E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY STATE ORDINANCE OR ANY PART OF THE ZONING ORDINANCE OF THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DIMENSIONS IN PLANS, SPECIFICATIONS OR ESTIMATES. THE APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



1 TYPICAL RETAINING WALL NOMENCLATURE (SECTION A-A)



2 TYPICAL RETAINING WALL NOMENCLATURE (SECTION B-B)

Fierro&Company
ENGINEERING | SURVEYING
3201 4TH STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL

ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME

TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

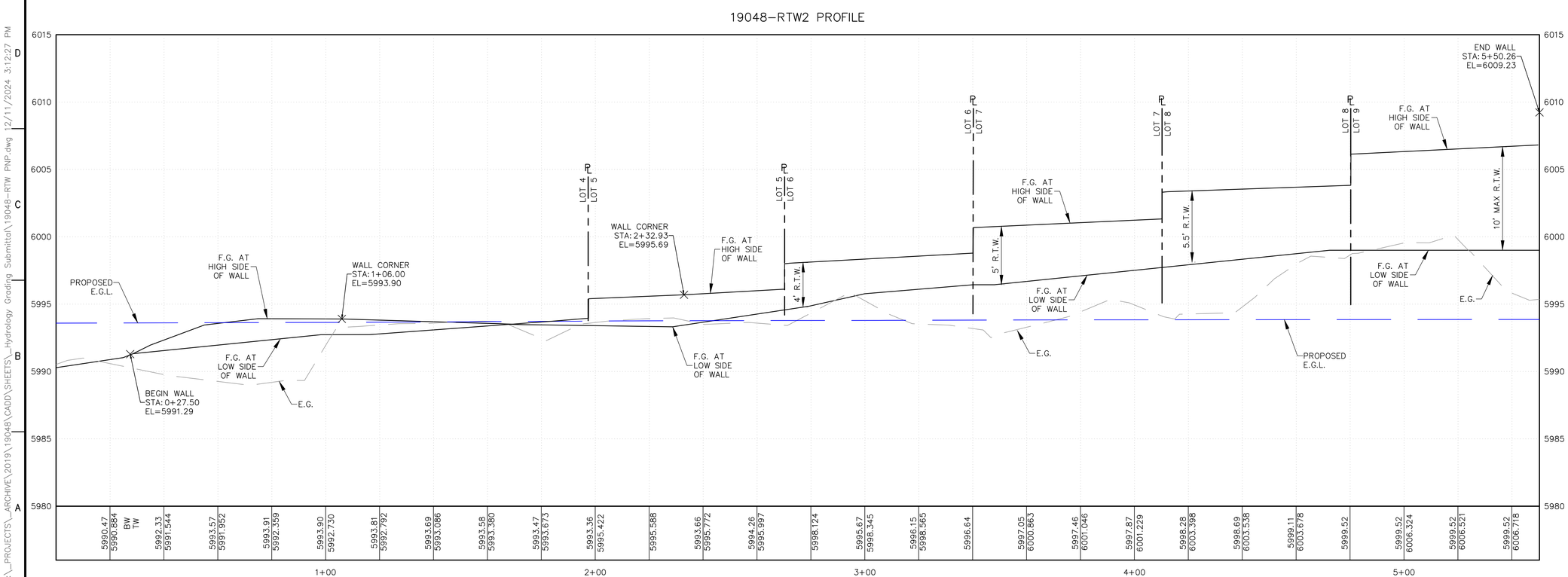
SHEET TITLE

TYPICAL SECTIONS

SHEET NO:

C-9

P:__PROJECTS__ARCHIVE\2019\19048\CADD\SHEETS__Hydrology Grading Submittal\19048-RTW PNP.dwg 12/11/2024 3:12:27 PM



City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans # E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO ALLOW ANY VIOLATION OF THE ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS/REPORT, SPECIFICATIONS, OR CONSTRUCTION. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

Fierro&Company
ENGINEERING | SURVEYING
3201 4TH STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE
R.T.W. No. 2
PLAN & PROFILE

SHEET NO:
C-10

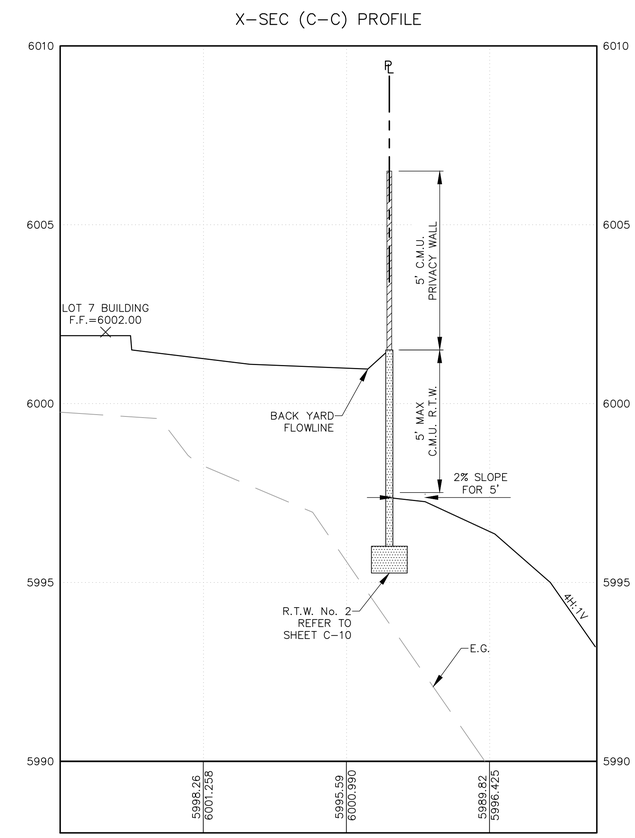
P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-RTW PNP.dwg 12/11/2024 3:12:27 PM

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED

DATE: 12-19-2024
BY: [illegible]
HydroTrans # E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTIONS OF CORRECTIONS, ON ERROR OR OMMISSION IN PLANS, SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE USED AS CONSTRUCTION PLANS UNLESS AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



1 TYPICAL RETAINING WALL NOMENCLATURE (SECTION C-C)

0 10' 20'
HORIZONTAL

0 2' 4'
VERTICAL

Fierro&Company
ENGINEERING | SURVEYING
3201 4TH STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL

ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME

TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

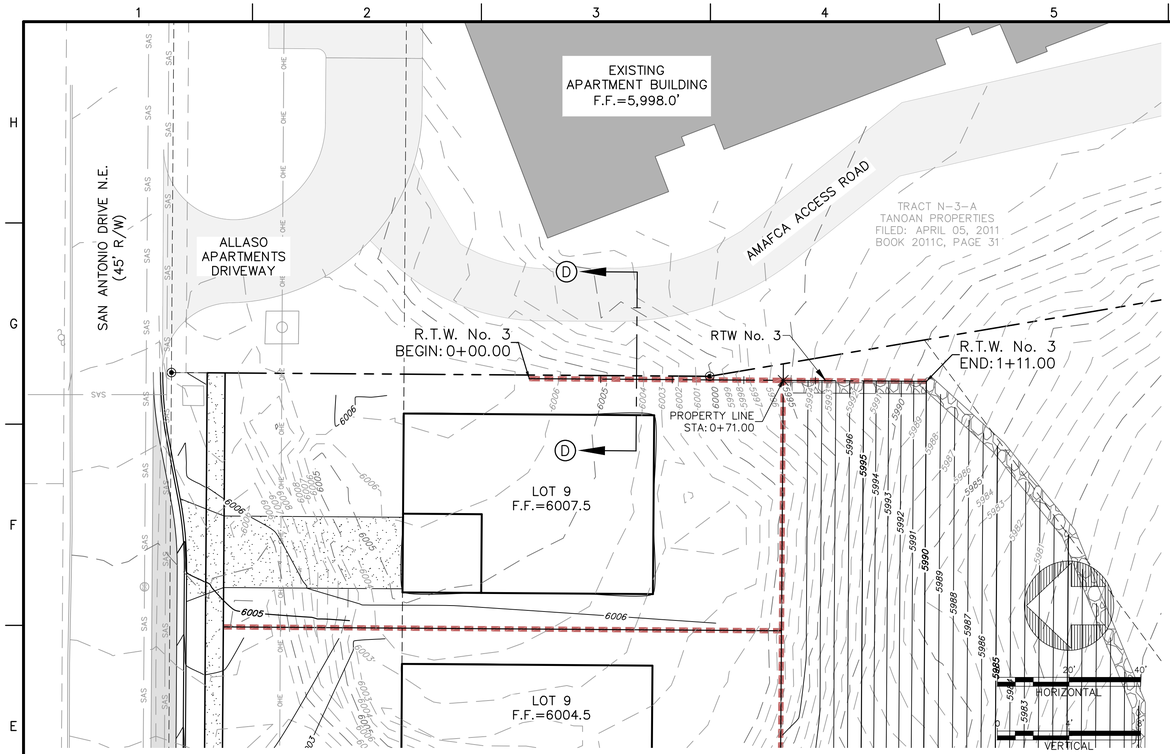
SHEET TITLE

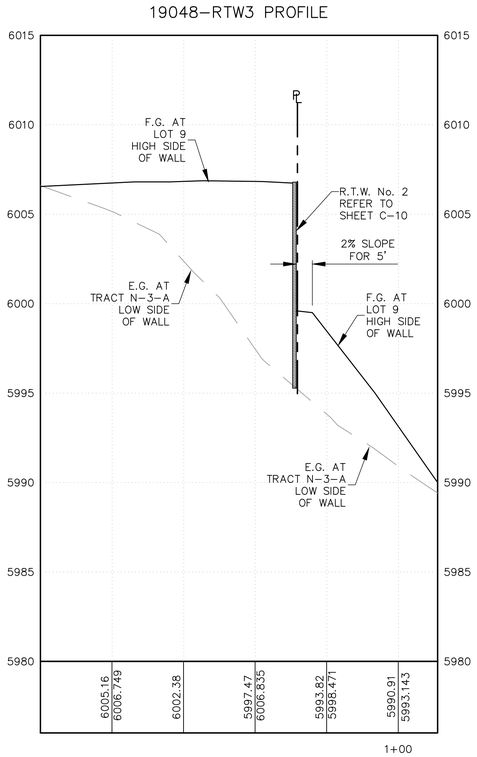
TYPICAL SECTIONS

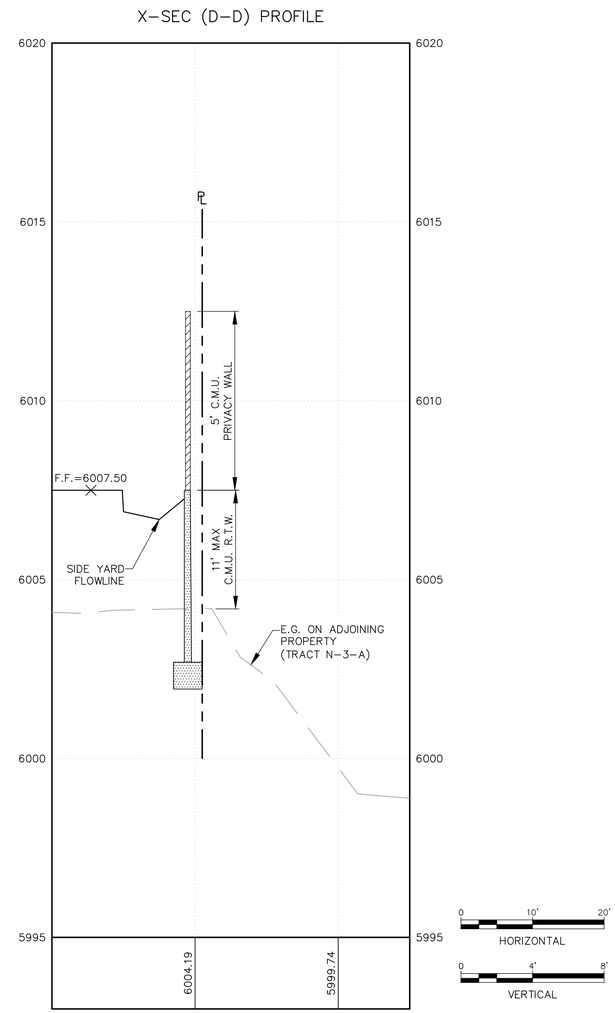
SHEET NO:

C-11

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-RTW PNP.dwg 12/11/2024 3:12:27 PM







1 TYPICAL RETAINING WALL NOMENCLATURE (SECTION D-D)

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans #: E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR OMISSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

Fierro&Company
ENGINEERING | SURVEYING
3201 4TH STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE
R.T.W. No. 3
PLAN & PROFILE &
TYPICAL SECTIONS

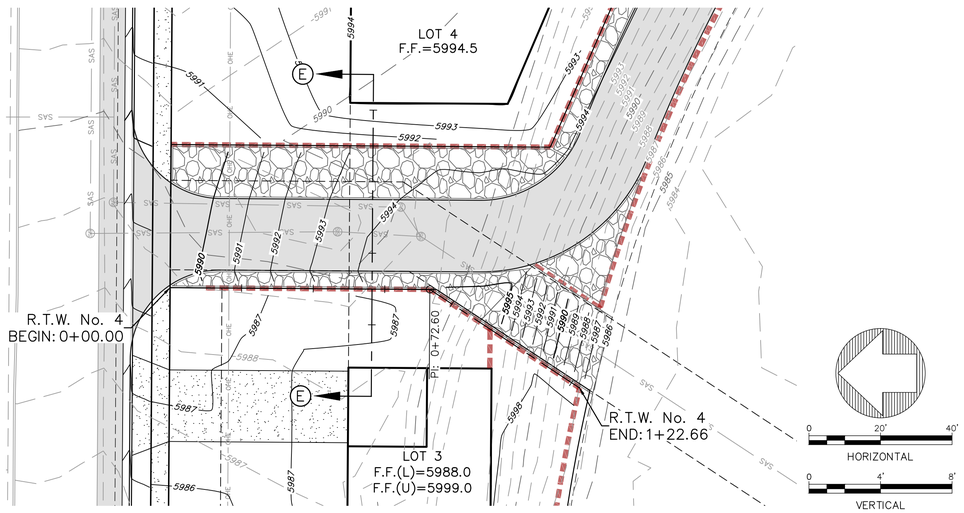
SHEET NO:
C-12

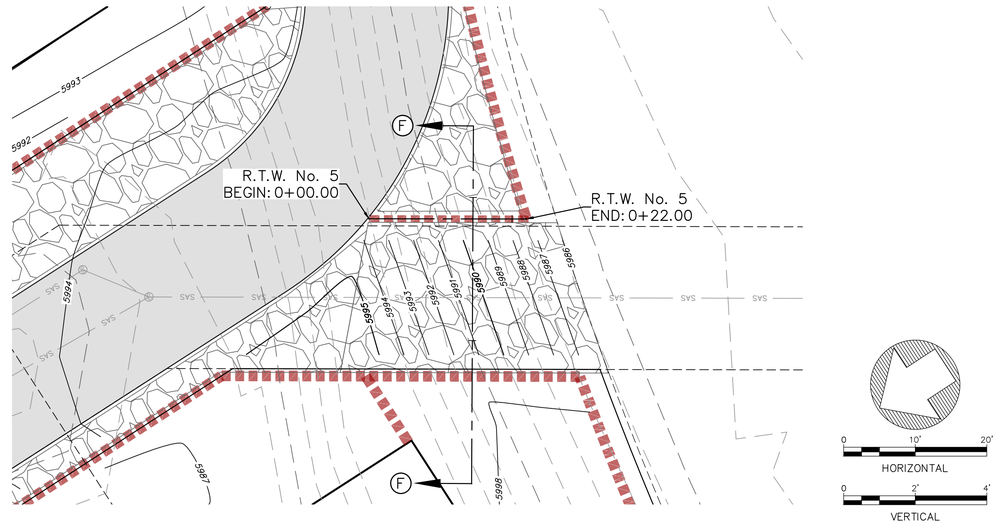
P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-RTW PNP.dwg 12/11/2024 3:12:27 PM

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans # E22D024

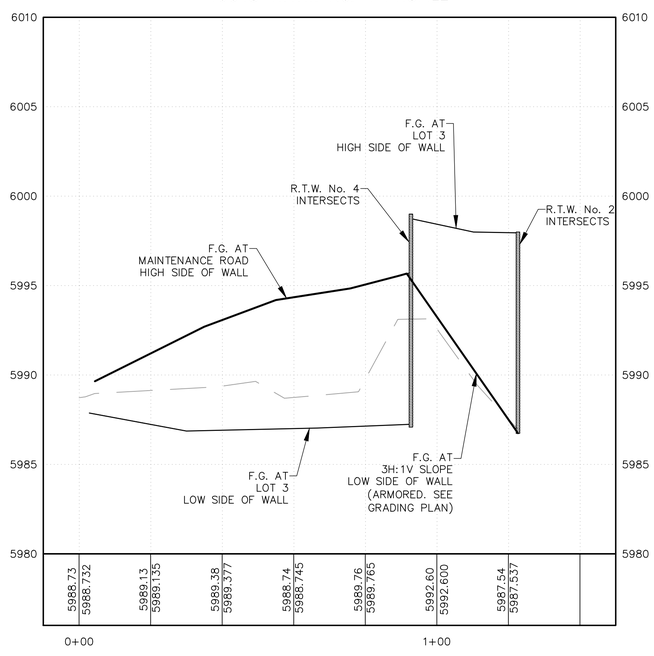
THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

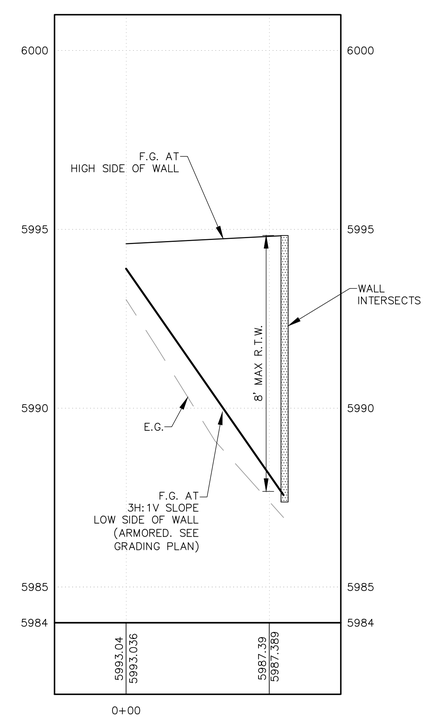




19048–R.T.W. No. 4 PROFILE



19048–R.T.W. No. 5 PROFILE



Fierro&Company
ENGINEERING | SURVEYING
3201 4TH STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE
R.T.W. No. 4 & No. 5
PLAN & PROFILE

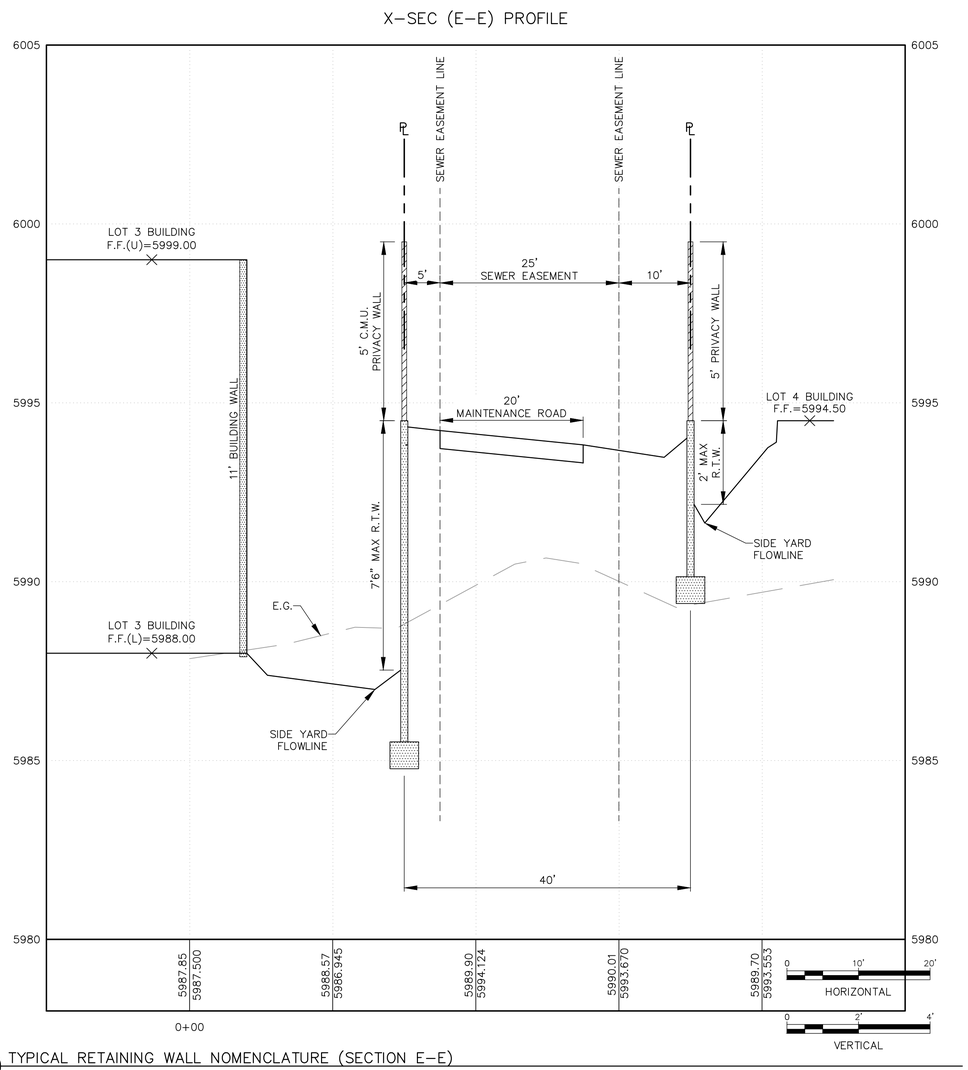
SHEET NO:
C-13

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-RTW PNP.dwg 12/11/2024 3:12:27 PM

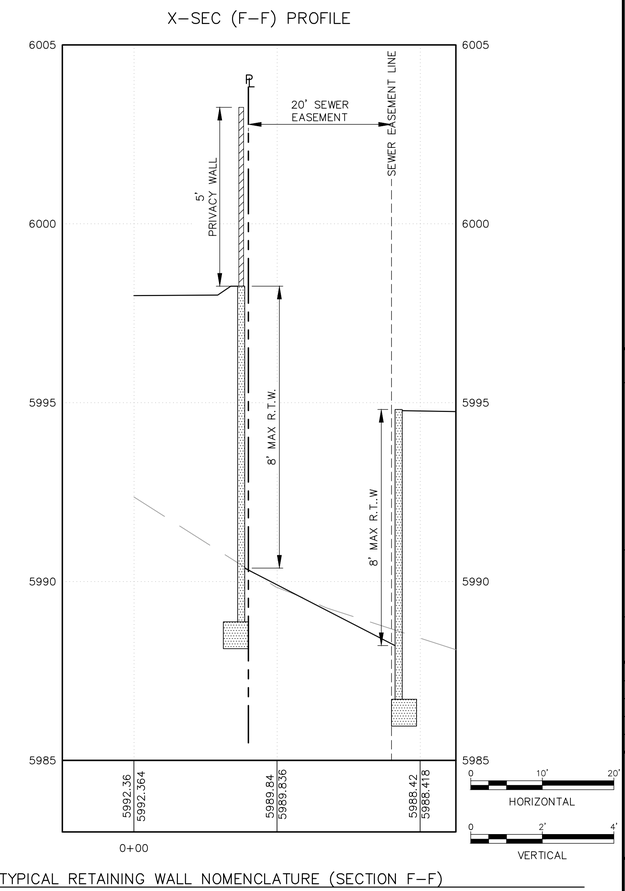
City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans # E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PROHIBIT THE ENFORCEMENT OF ANY PROVISION OF ELTRA LAW WHICH THE CITY OF ALBUQUERQUE MAY HAVE PERTINENT TO THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTIONS, OR ERROR OR DIMENSIONS IN PLANS, SPECIFICATIONS OR REPORTS. THESE PLANS/REPORT AND PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.



1 TYPICAL RETAINING WALL NOMENCLATURE (SECTION E-E)



2 TYPICAL RETAINING WALL NOMENCLATURE (SECTION F-F)

Fierro&Company
ENGINEERING | SURVEYING
3201 4TH STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL

ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME

TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

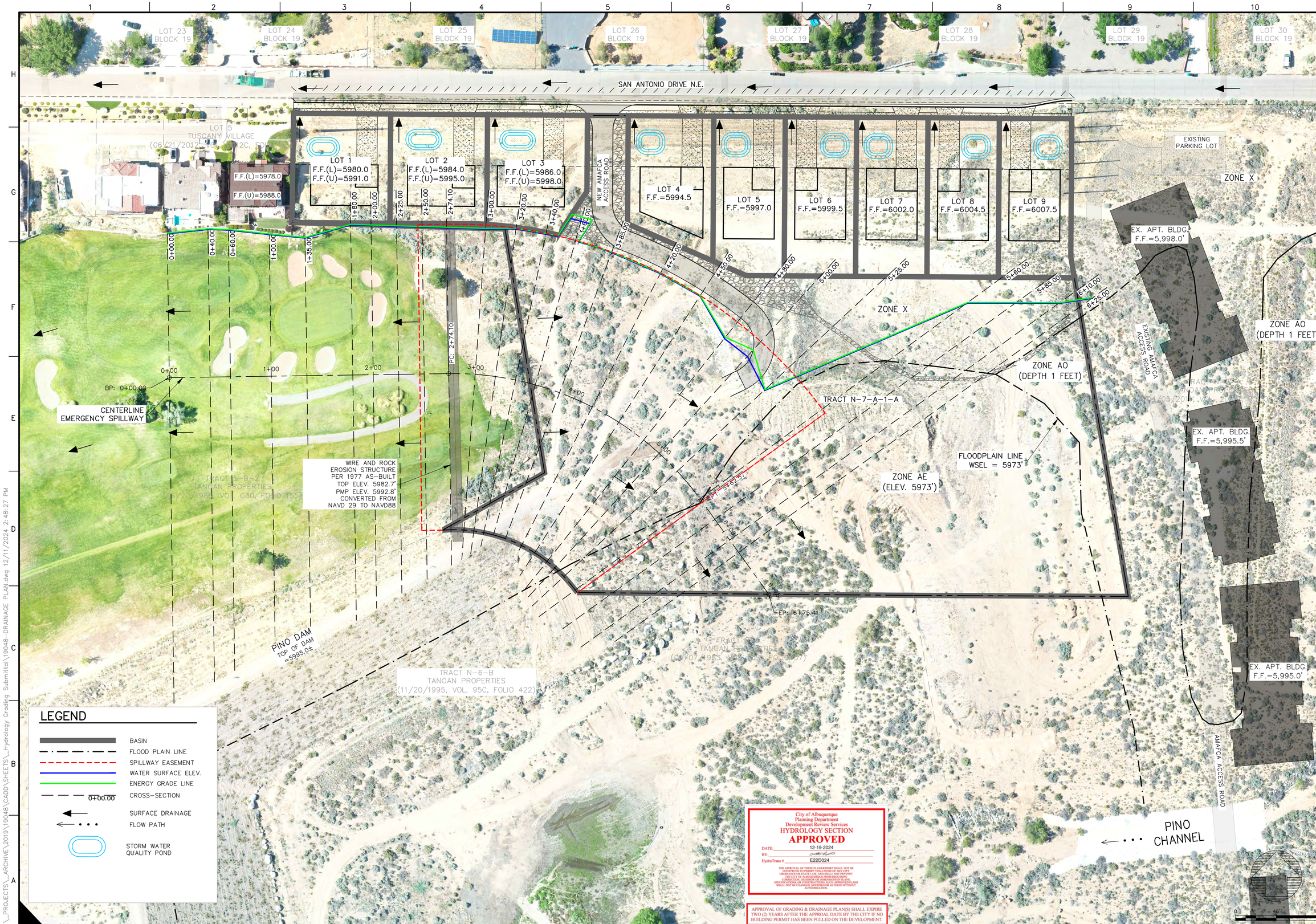
SHEET TITLE

TYPICAL SECTIONS

SHEET NO:

C-14

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-RTW PNP.dwg 12/11/2024 3:12:27 PM



Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL

ROBERT J. FIERRO NEW MEXICO 20585 12-11-24 PROFESSIONAL ENGINEER

PROJECT NAME

TUSCANY VILLAGE, UNIT II SUBDIVISION ALBUQUERQUE, NM

REV	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE

BASIN MAP

SHEET NO:

D-1

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-DRAINAGE PLAN.dwg 12/11/2024 2:48:27 PM

City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY: [signature]
HydroTrans # E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT VIOLATIONS OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION, OR ERROR OR DIMENSIONS IN PLANS, SPECIFICATIONS, OR CONSTRUCTIONS. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROVAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

Introduction

The site is 6.6575 acres located along San Antonio Drive NE approximately 900 feet west of Tramway Blvd. The site is Zoned RD-4 which allows the development of lots with a minimum lot size of 10,000 sq.ft. The existing tract is encumbered with several easements. Due to these easements the only developable area is approximately the northern 150 feet of the property. The purpose of this Grading & Drainage Plan is to 1) provide hydrologic and hydraulic analysis of the existing and proposed condition, 2) satisfy allowable stormwater discharge rates, and 4) seek grading permit approval for the lots under an approved preliminary plat.

Methodology

Hydrologic procedures presented in the Hydrology Section of the DMP, Article 6-2(a), approved June 8, 2020 were followed.
Precipitation Zone 4 data was used in the hydrologic computations.

Existing Condition

The site is undeveloped. Basins of Lots 1-9 drain to San Antonio Drive. San Antonio Drive has an approximate slope of 5% and drops in elevation going West.
The remaining tract, Tract N7-A-1-A, is within a portion of Pino Dam' pool and emergency spillway. Pino Dam stores runoff from an approximately 5.05 sq.mi. watershed, which extends East to the crest of the Sandia Mountains. Offsite runoff enters said tract from an increased stage in water surface within the Pino Dam pool. Runoff enters Pino Dam pool via Pino Channel as shown on Sheet D-1. Bohannan Huston, Inc. (BHI) has completed hydrologic modeling of the Pino Dam. Hydrologic information from BHI's Memorandum dated June 30th, 2014 was used to model the emergency spillway with HEC-RAS. The Peak Outflow used is 22,485 cfs which was obtained from page 5 of said memorandum.

Said tract lies partially within the following two flood zones as depicted on Federal Emergency Management Agency (F.E.M.A) Flood Insurance Rate Map No. 35001C0142H, effective date August 16, 2012: 1) Zone AE, Base Flood Elevation 5973 feet and 2) Zone AO, with flood depth 1 foot. A portion of Pino Dam's emergency spillway is located within said Tract.

Proposed Condition

A nine (9) lot residential subdivision is proposed. Runoff from Lots 1-9 will continue to discharge to San Antonio Drive. Tract N-7-A-1-A will continue to function as Pino Dam's pool and emergency spillway. Grading is proposed to occur within said tract to support an AMAFCA Maintenance Road and adjust slopes to a minimal south of lots 6-9. Lots 1-5 are in close proximity to the Spillway Easement and were graded so that the backyard elevation is above the energy grade line which was calculated in HEC-RAS based on the 22,485 cfs outflow via the emergency spillway. Retaining walls are proposed to retain the backyards of Lots 1-4 and the maintenance road. These walls were designed so the top of wall is higher in elevation then the energy grade line.

The proposed subdivision does not require attenuating runoff since the runoff rate for the 100-year, 6-hour storm is nearly the same as in the existing condition. Therefore, only the Storm Water Quality Volume (SWQV) will be stored in Storm Water Quality Ponds (SWQPs) that are located within the proposed lots. A separate grading plan will need to be submitted for building permit which shows detailed grading of the storm water quality ponds and respective calculations. The table under the "Proposed Condition Hydrology Summary" list the allowable land treatment percentages. SWQV of each lot is listed in the table under "Summary of Runoff Rates".

Conclusion

The proposed subdivision does not alter drainage patterns nor adversely impact downstream development. The proposed peak discharge of each lot is negligible. This drainage report and grading plan submittal demonstrates feasibility of the proposed subdivision and achieved hydrologic objectives; therefore, seeks grading permit to grade the subdivision which has preliminary plat approval.

DRAINAGE REPORT

FLOOD INSURANCE RATE MAP
MAP NO. 35001C0142H
EFFECTIVE DATE: 08/16/2012

HYDROLOGY SUMMARY - EXISTING CONDITION									
Lot #	Tota Area (sq.ft.)	Total Area (acres)	Land Treatement (%) A	B	C	D	Q_{100} (cfs)	$V_{100yr-24hr}$ (ac-ft)	$V_{100yr-24hr}$ (cu-ft)
1	10,247	0.235	0	0	100	0	0.8	0.024	1,025
2	10,176	0.234	0	0	100	0	0.8	0.023	1,018
3	10,499	0.241	0	0	100	0	0.8	0.024	1,050
4	10,416	0.239	0	0	100	0	0.8	0.024	1,042
5	10,691	0.245	0	0	100	0	0.8	0.025	1,069
6	10,920	0.251	0	0	100	0	0.9	0.025	1,092
7	10,920	0.251	0	0	100	0	0.9	0.025	1,092
8	10,920	0.251	0	0	100	0	0.9	0.025	1,092
9	11,113	0.255	0	0	100	0	0.9	0.026	1,111
Tract	190,082	4.364	0	0	100	0	14.9	0.436	19,008

EXISTING CONDITION HYDROLOGY SUMMARY

HYDROLOGY SUMMARY PROPOSED CONDITION										
Lot #	Tota Area (sq.ft.)	Total Area (acres)	Land Treatement (%) A	B	C	D	Q_{100} (cfs)	$V_{100yr-24hr}$ (ac-ft)	$V_{100yr-24hr}$ (cu-ft)	SW QV (cu-ft)
1	10,247	0.235	0	60	0	40	0.8	0.045	1,955	143
2	10,176	0.234	0	60	0	40	0.8	0.045	1,942	142
3	10,499	0.241	0	60	0	40	0.9	0.046	2,004	147
4	10,416	0.239	0	60	0	40	0.8	0.046	1,988	146
5	10,691	0.245	0	60	0	45	0.9	0.051	2,232	168
6	10,920	0.251	0	60	0	45	0.9	0.052	2,280	172
7	10,920	0.251	0	58	2	45	1.0	0.052	2,284	172
8	10,920	0.251	0	58	2	45	1.0	0.052	2,284	172
9	11,113	0.255	0	58	2	45	1.0	0.053	2,324	175
Tract	190,082	4.364	0	0	100	0	14.9	0.436	19,008	0

PROPOSED CONDITION HYDROLOGY SUMMARY

Summary of Runoff Rates			
Lot #	Existing $Q_{100yr-6hr}$ (cu-ft)	Proposed $Q_{100yr-24hr}$ (cu-ft)	SWQV (cu-ft)
1	0.8	0.8	143
2	0.8	0.8	142
3	0.8	0.9	147
4	0.8	0.8	146
5	0.8	0.9	168
6	0.9	0.9	172
7	0.9	1.0	172
8	0.9	1.0	172
9	0.9	1.0	175
Tract	14.9	14.9	0

HYDROLOGY SUMMARY COMPARISON

HEC-RAS Plan: Plan 01 River: Pino Dam Spillwa Reach: 19048-SPILLWAY C Profile: PF 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
19048-SPILLWAY C	625	PF 1	22485.00	5948.09	5993.41		5993.43	0.000011	1.31	17160.63	574.73	0.04
19048-SPILLWAY C	610	PF 1	22485.00	5951.20	5993.41		5993.43	0.000013	1.33	16860.18	598.46	0.04
19048-SPILLWAY C	585	PF 1	22485.00	5956.65	5993.39		5993.43	0.000023	1.64	13705.78	561.08	0.06
19048-SPILLWAY C	560	PF 1	22485.00	5962.50	5993.35		5993.43	0.000058	2.20	10221.77	543.67	0.09
19048-SPILLWAY C	525	PF 1	22485.00	5969.29	5993.12		5993.40	0.000375	4.23	5310.28	425.96	0.21
19048-SPILLWAY C	500	PF 1	22485.00	5971.94	5992.84		5993.37	0.000685	5.82	3862.57	299.62	0.29
19048-SPILLWAY C	480	PF 1	22485.00	5974.18	5992.81		5993.35	0.000751	5.89	3819.38	314.21	0.30
19048-SPILLWAY C	450	PF 1	22485.00	5977.53	5992.76		5993.32	0.000865	6.01	3739.38	336.73	0.32
19048-SPILLWAY C	420	PF 1	22485.00	5980.24	5992.58		5993.28	0.001176	6.70	3353.57	325.68	0.37
19048-SPILLWAY C	385	PF 1	22485.00	5981.09	5992.34		5993.21	0.001653	7.50	2998.44	320.50	0.43
19048-SPILLWAY C	360	PF 1	22485.00	5982.17	5991.98		5993.14	0.002611	8.62	2608.63	321.74	0.53
19048-SPILLWAY C	340	PF 1	22485.00	5982.92	5991.55		5993.04	0.004127	9.78	2299.78	334.28	0.66
19048-SPILLWAY C	320	PF 1	22485.00	5983.31	5991.09	5990.04	5992.90	0.005847	10.80	2081.69	340.76	0.77
19048-SPILLWAY C	300	PF 1	22485.00	5983.37	5989.96	5989.96	5992.66	0.010399	13.19	1705.01	319.01	1.01
19048-SPILLWAY C	274.1	PF 1	22485.00	5982.86	5989.26	5989.26	5991.98	0.010396	13.24	1698.53	315.77	1.01
19048-SPILLWAY C	250	PF 1	22485.00	5982.14	5988.31	5988.31	5991.01	0.010423	13.17	1707.62	320.75	1.01
19048-SPILLWAY C	225	PF 1	22485.00	5981.03	5987.20	5987.20	5989.85	0.010456	13.06	1722.07	328.46	1.01
19048-SPILLWAY C	200	PF 1	22485.00	5979.43	5985.77	5985.77	5988.38	0.010495	12.95	1736.10	336.35	1.01
19048-SPILLWAY C	180	PF 1	22485.00	5977.67	5984.46	5984.46	5987.05	0.010548	12.90	1742.74	341.01	1.01
19048-SPILLWAY C	135	PF 1	22485.00	5974.24	5981.57	5981.57	5984.16	0.010440	12.90	1742.47	338.99	1.00
19048-SPILLWAY C	100	PF 1	22485.00	5971.49	5978.98	5978.98	5981.65	0.010331	13.10	1716.05	323.44	1.00
19048-SPILLWAY C	60	PF 1	22485.00	5968.36	5976.13	5976.13	5978.67	0.010661	12.78	1758.81	352.00	1.01
19048-SPILLWAY C	40	PF 1	22485.00	5966.98	5974.45	5974.45	5976.90	0.010588	12.54	1793.52	367.98	1.00
19048-SPILLWAY C	0	PF 1	22485.00	5964.63	5971.97	5971.97	5974.35	0.010657	12.39	1814.46	380.55	1.00

EXISTING CONDITION HEC-RAS SUMMARY

HEC-RAS Plan: Plan 01 River: Pino Dam Spillwa Reach: 19048-SPILLWAY C Profile: PF 1

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
19048-SPILLWAY C	625	PF 1	22485.00	5948.09	5993.56		5993.59	0.000011	1.31	17145.04	575.81	0.04
19048-SPILLWAY C	610	PF 1	22485.00	5951.20	5993.56		5993.59	0.000013	1.36	16593.19	576.30	0.04
19048-SPILLWAY C	585	PF 1	22485.00	5956.65	5993.54		5993.59	0.000024	1.69	13320.44	545.96	0.06
19048-SPILLWAY C	560	PF 1	22485.00	5962.50	5993.50		5993.58	0.000063	2.29	9827.35	519.49	0.09
19048-SPILLWAY C	525	PF 1	22485.00	5969.29	5993.21		5993.55	0.000361	4.71	4772.90	310.96	0.21
19048-SPILLWAY C	500	PF 1	22485.00	5971.94	5993.02		5993.53	0.000687	5.69	3952.48	319.53	0.29
19048-SPILLWAY C	480	PF 1	22485.00	5974.18	5992.99		5993.51	0.000703	5.77	3898.01	314.56	0.29
19048-SPILLWAY C	450	PF 1	22485.00	5977.53	5992.94		5993.49	0.000809	5.94	3783.52	326.96	0.31
19048-SPILLWAY C	420	PF 1	22485.00	5980.24	5992.73		5993.44	0.001141	6.76	3328.34	305.67	0.36
19048-SPILLWAY C	385	PF 1	22485.00	5981.09	5992.48		5993.38	0.001612	7.58	2964.54	299.27	0.42
19048-SPILLWAY C	360	PF 1	22485.00	5982.17	5992.20		5993.31	0.002416	8.44	2664.15	319.62	0.52
19048-SPILLWAY C	340	PF 1	22485.00	5982.92	5991.70		5993.20	0.003938	9.82	2288.69	313.64	0.64
19048-SPILLWAY C	320	PF 1	22485.00	5983.31	5991.26	5990.07	5993.08	0.005539	10.80	2082.10	322.24	0.75
19048-SPILLWAY C	300	PF 1	22485.00	5983.37	5990.03	5990.03	5992.83	0.010382	13.42	1675.56	300.30	1.00
19048-SPILLWAY C	274.1	PF 1	22485.00	5982.86	5989.31	5989.31	5992.13	0.010416	13.47	1668.94	298.32	1.00
19048-SPILLWAY C	250	PF 1	22485.00	5982.14	5988.36	5988.36	5991.15	0.010440	13.39	1679.32	304.00	1.00
19048-SPILLWAY C	225	PF 1	22485.00	5981.03	5987.19	5987.19	5989.92	0.010610	13.27	1694.43	313.74	1.01
19048-SPILLWAY C	200	PF 1	22485.00	5979.43	5985.76	5985.76	5988.43	0.010611	13.11	1714.65	324.55	1.01
19048-SPILLWAY C	180	PF 1	22485.00	5977.67	5984.47	5984.47	5987.08	0.010481	12.95	1736.48	333.46	1.00
19048-SPILLWAY C	135	PF 1	22485.00	5974.24	5981.56	5981.56	5984.16	0.010797	12.94	1737.18	338.94	1.01
19048-SPILLWAY C	100	PF 1	22485.00	5971.49	5978.98	5978.98	5981.65	0.010535	13.11	1715.41	323.43	1.00
19048-SPILLWAY C	60	PF 1	22485.00	5968.36	5976.13	5976.13	5978.67	0.010749	12.78	1758.98	352.01	1.01
19048-SPILLWAY C	40	PF 1	22485.00	5966.98	5974.45	5974.45	5976.90	0.010664	12.55	1791.19	367.89	1.00
19048-SPILLWAY C	0	PF 1	22485.00	5964.63	5971.94	5971.94	5974.35	0.010893	12.47	1803.69	380.37	1.01

PROPOSED CONDITION HEC-RAS SUMMARY

LEGEND

PROPERTY BOUNDARY
FLOW PATH
ROOF FLOW
SURFACE DRAINAGE
UTILITY EASEMENT LINE
FLOWLINE
EXISTING MAJOR CONTOUR (3905)
EXISTING MINOR CONTOUR (3904)
PROPOSED MAJOR CONTOUR (3905)
PROPOSED MINOR CONTOUR (3904)
PROPOSED BASIN

Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-2024
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II SUBDIVISION
ALBUQUERQUE, NM

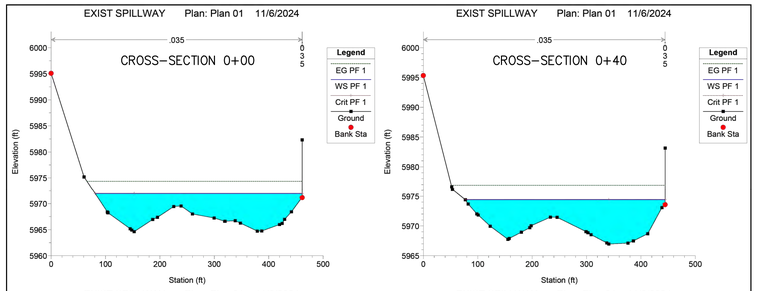
REV.	DATE	DESCRIPTION	BY

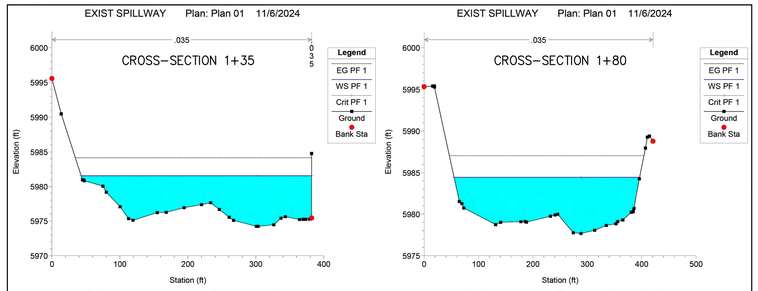
PROJECT NO: 19048
DESIGNED BY: RJF
DRAWN BY: JB
CHECKED BY: RJF
DATE: NOVEMBER 2024

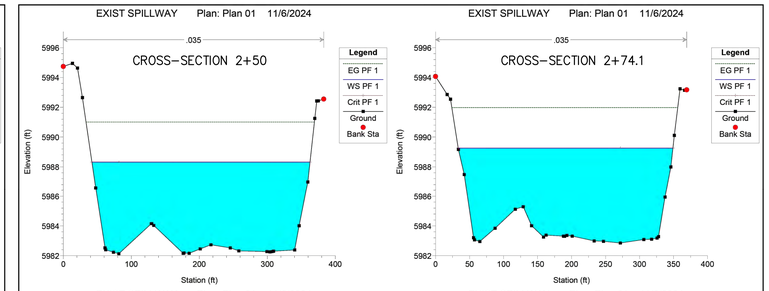
SHEET TITLE
DRAINAGE PLAN

SHEET NO: D-2

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-DRAINAGE PLAN.dwg 12/11/2024 2:48:27 PM



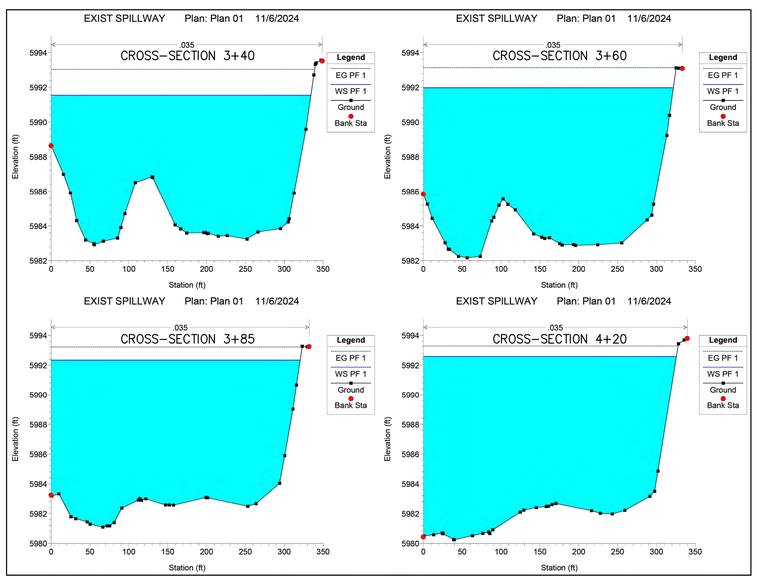


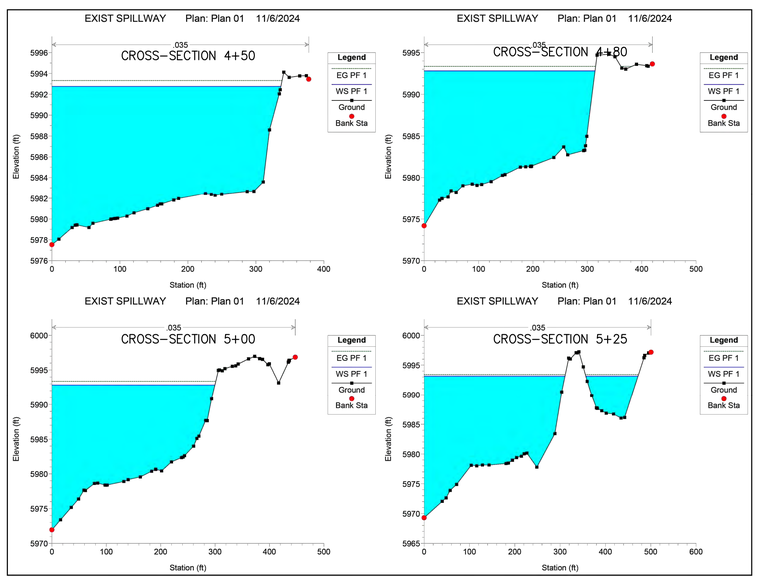


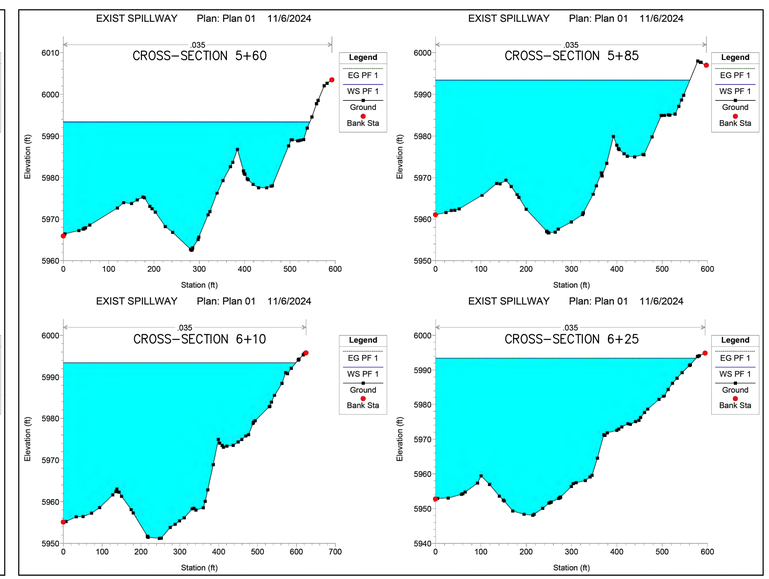
City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans #: E22D024

THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO PERMIT A VIOLATION OF ANY CITY ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS/REPORT, PLANS, SPECIFICATIONS, OR CONSTRUCTION. SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.







Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

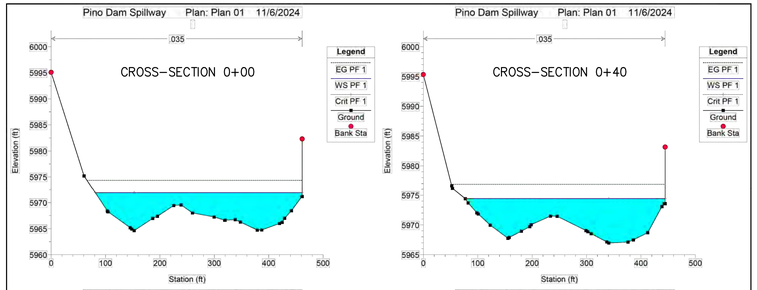
REV.	DATE	DESCRIPTION	BY

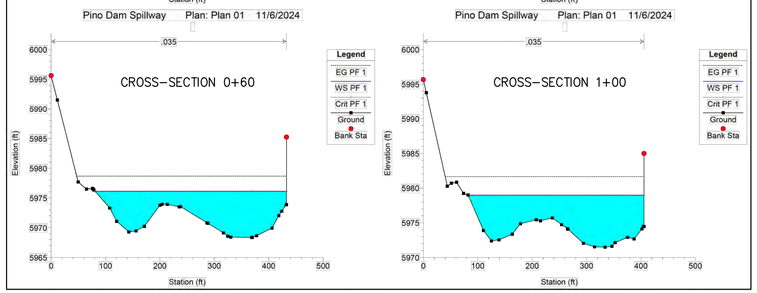
PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

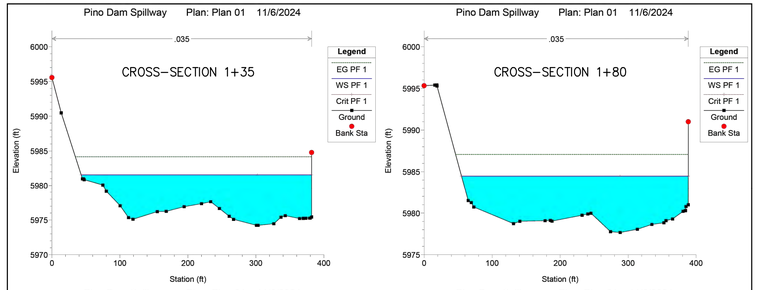
SHEET TITLE
HEC-RAS RESULTS EXISTING CONDITION

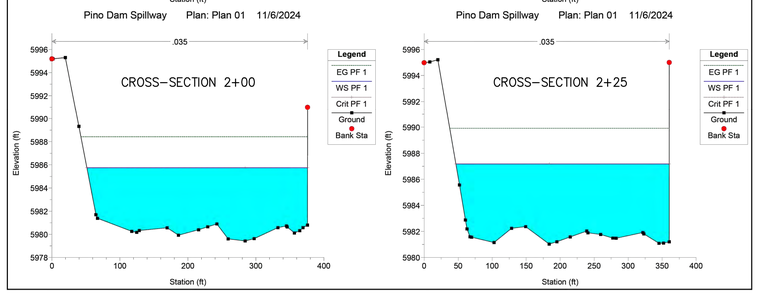
SHEET NO:
D-3

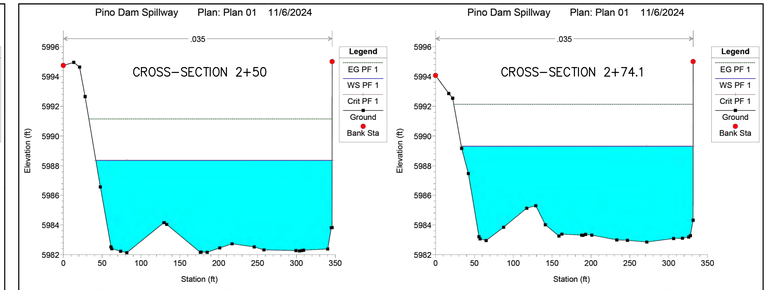
P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-DRAINAGE PLAN.dwg 12/11/2024 2:48:27 PM

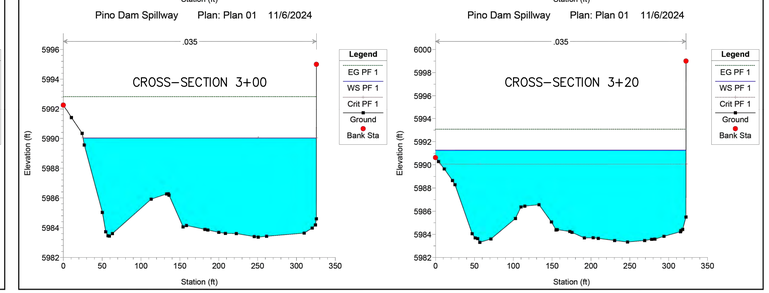








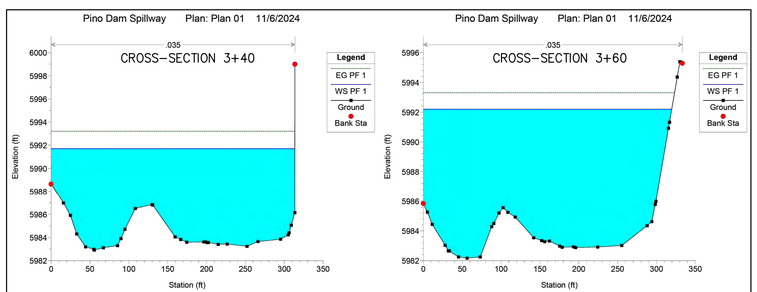


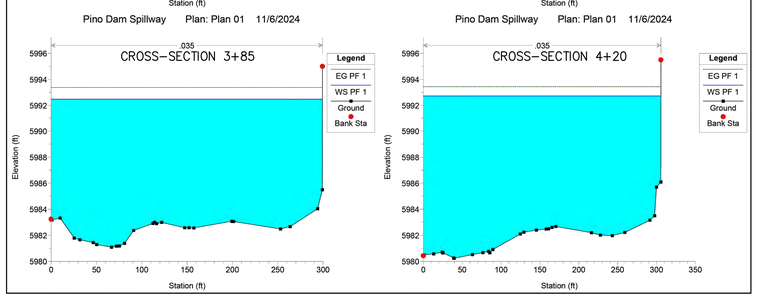


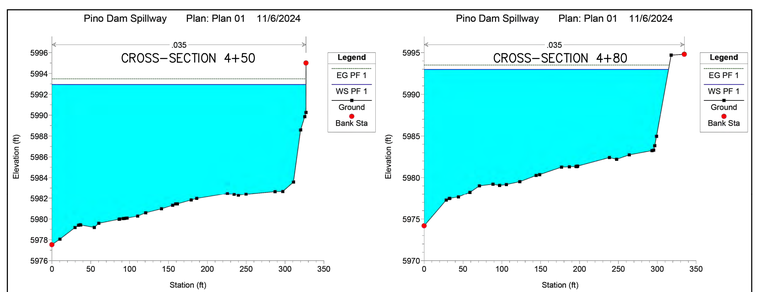
City of Albuquerque
Planning Department
Development Review Services
HYDROLOGY SECTION
APPROVED
DATE: 12-19-2024
BY:
HydroTrans # E22D024

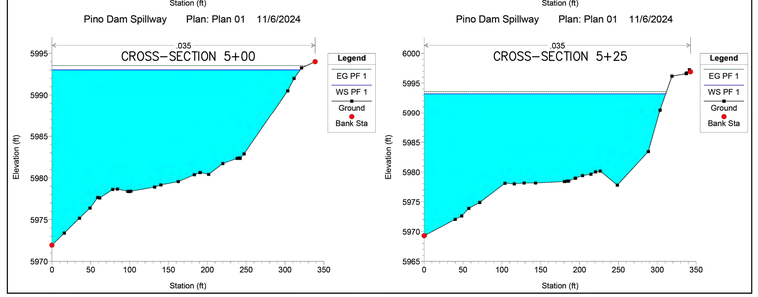
THE APPROVAL OF THESE PLANS/REPORT SHALL NOT BE CONSTRUED TO VIOLATE, OR PERMIT A VIOLATION OF ORDINANCE OR STATE LAW, AND SHALL NOT PREVENT THE CITY OF ALBUQUERQUE FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS/REPORT. ALL SPECIFICATIONS, OR CONSTRUCTIONS, SUCH APPROVED PLANS SHALL NOT BE CHANGED, MODIFIED OR ALTERED WITHOUT AUTHORIZATION.

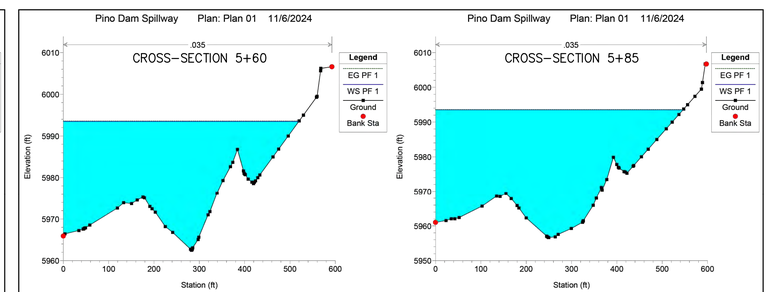
APPROVAL OF GRADING & DRAINAGE PLAN(S) SHALL EXPIRE TWO (2) YEARS AFTER THE APPROAL DATE BY THE CITY IF NO BUILDING PERMIT HAS BEEN PULLED ON THE DEVELOPMENT.

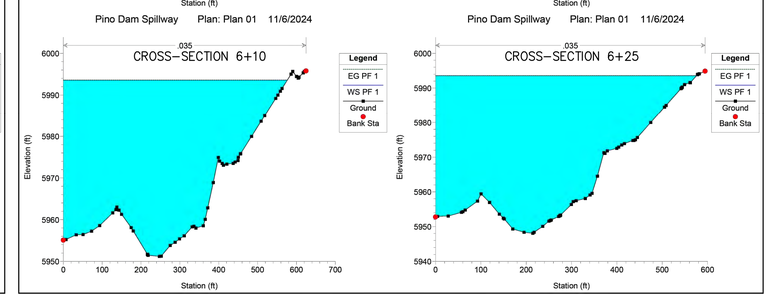












Fierro&Company
ENGINEERING | SURVEYING
3201 4th. STREET NW, SUITE C
ALBUQUERQUE, NEW MEXICO 87107
PH (505) 352-8930
www.fierrocompany.com

ENGINEER'S SEAL
ROBERT J. FIERRO
NEW MEXICO
20585
12-11-24
PROFESSIONAL ENGINEER

PROJECT NAME
TUSCANY VILLAGE, UNIT II
SUBDIVISION
ALBUQUERQUE, NM

REV.	DATE	DESCRIPTION	BY

PROJECT NO:	19048
DESIGNED BY:	RJF
DRAWN BY:	JB
CHECKED BY:	RJF
DATE:	NOVEMBER 2024

SHEET TITLE
HEC-RAS RESULTS PROPOSED CONDITION

SHEET NO:
D-4

P:_PROJECTS_ARCHIVE\2019\19048\CADD\SHEETS_Hydrology Grading Submittal\19048-DRAINAGE PLAN.dwg 12/11/2024 2:48:27 PM