CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development Review Services

Richard J. Berry, Mayor

February 19, 2016

Vincent P. Carrica, PE
Tierra West, LLC
5571 Midway Park Pl NE
Albuquerque, NM 87109

RE: **FedEx® Ground Facilities** - Daytona Road NW
Release of Financial Guarantee
Engineer's Stamp Date 10-20-2014 (File: K09D026A)
Certification Date: 2-17-2016

Dear Mr. Carrica:

Based upon your Engineer's Certification submitted on 11/10/2014, the above referenced plan is accepted for Release of Financial Guarantee for grading and drainage.

If you have any questions, you can contact me at 924-3695.

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Planning Dept.
Development Review Services

Orig: Drainage file
c.pdf: via Email. Recipient, Madeline Carruthers, Rudy Archuleta

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEX Ground City Drainage #: K09D026A

DRB#: EPC#: 14EPC-40012 (Project #1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13, and Tract 14A, Town of Atrisco Grant Unit 5

City Address:

Engineering Firm: Tierra West, LLC Contact: Vincent P. Carrica

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: vcarrica@tierrawestllc.com

Owner: Contact:

Address:

Phone#: Fax#: E-mail:

Architect: Contact:

Address:

Phone#: Fax#: E-mail:

Surveyor: Contact:

Address:

Phone#: Fax#: E-mail:

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ EROSION & SEDIMENT CONTROL PLAN (ESC)
X ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

X SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM)
___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED
FEB 17 2016
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes X No ___ Copy Provided

DATE SUBMITTED: February, 16,2016 By: Vincent Carrica, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE

August 6, 2015

Vincent Carrica, PE
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

Re: FedEx Ground
8000 Daytona Rd NW
Request Permanent C.O. - Accepted
Engineer's Stamp dated: 10-20-14 (K09D026A)
Certification dated: 6-29-15

Dear Mr. Carrica,

Based on the Certification received 8/3/2015, the above mentioned building is acceptable for release of Permanent Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: email

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEX Ground City Drainage #: K09D026A

DRB#: EPC#: 14EPC-40012 (Project #1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13, and Tract 14A, Town of Atrisco Grant Unit 5

City Address: Not yet assigned

Engineering Firm: Tierra West, LLC Contact: Vincent Carrica, P.E.

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: vcarrica@tierrawestllc.com

Owner: Contact:

Address:

Phone#: Fax#: E-mail:

Architect: Contact:

Address:

Phone#: Fax#: E-mail:

Surveyor: Contact:

Address:

Phone#: Fax#: E-mail:

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ EROSION & SEDIMENT CONTROL PLAN (ESC)
✓ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
✓ CERTIFICATE OF OCCUPANCY (PERM)
___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED AUG 03 2015 LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes X No ___ Copy Provided

DATE SUBMITTED: July 30, 2015 By: Vincent Carrica, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, anc scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A – PROPERTY INFORMATION

	FOR INSURANCE COMPANY USE
A1. Building Owner's Name Westco Albuquerque LLC/Westco Albuquerque II	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 8000 Daytona Road, NW	Company NAIC Number:

City Albuquerque State NM ZIP Code 87121

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
Tract 5-A, Avalon Subdivision Unit 5

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Commercial
A5. Latitude/Longitude: Lat. 35d05'12.78" N Long. 106d44'5.19" W Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number 1A
A8. For a building with a crawlspace or enclosure(s):
a) Square footage of crawlspace or enclosure(s) n/a sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade n/a
c) Total net area of flood openings in A8.b n/a sq in
d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:
a) Square footage of attached garage n/a sq ft
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade n/a
c) Total net area of flood openings in A9.b n/a sq in
d) Engineered flood openings? ☐ Yes ☒ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
Bernalillo County Unincorporated 350001	Bernalillo	NM

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
35001C0328	H	08/16/2012	08/16/2012	AO	Depth 1'

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____
B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____
B12 Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☐ No
Designation Date: _____ ☐ CBRS ☐ OPA

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2 a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: 13 K10 Vertical Datum: _____
Indicate elevation datum used for the elevations in items a) through h) below. ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____
Datum used for building elevations must be the same as that used for the BFE.

		Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	5187.03	☒ feet	☐ meters
b) Top of the next higher floor	n/a.	☐ feet	☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	n/a.	☐ feet	☐ meters
d) Attached garage (top of slab)	n/a.	☐ feet	☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	5184.61	☒ feet	☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	5183.03	☒ feet	☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	5186.97	☒ feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	5183.03	☒ feet	☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

☐ Check here if comments are provided on back of form.
☐ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No

Certifier's Name Larry W Medrano		License Number NMPS 11993
Title President	Company Name Precision Surveys, Inc.	
Address PO Box 90636	City Albuquerque	State NM ZIP Code 87199
Signature Digitally signed by Larry Medrano Location: Albuquerque, NM Date: 2015.07.30 13:33:56-06'00'	Date 07/30/2015	Telephone 505-856-5700

IMPORTANT: In these spaces, copy the corresponding information from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 8000 Daytona Road, NW	Policy Number:
City Albuquerque State NM ZIP Code 87121	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments

Signature Digitally signed by Larry Medrano Location Albuquerque, NM Date 2015 07 30 13 34 36-06'00' Date

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____._____ ☒ feet ☐ meters ☒ above or ☐ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____._____ ☒ feet ☐ meters ☒ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____._____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____._____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____._____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address City State ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments.

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1 ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____._____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____._____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____._____ ☐ feet ☐ meters Datum _____

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☐ Check here if attachments.

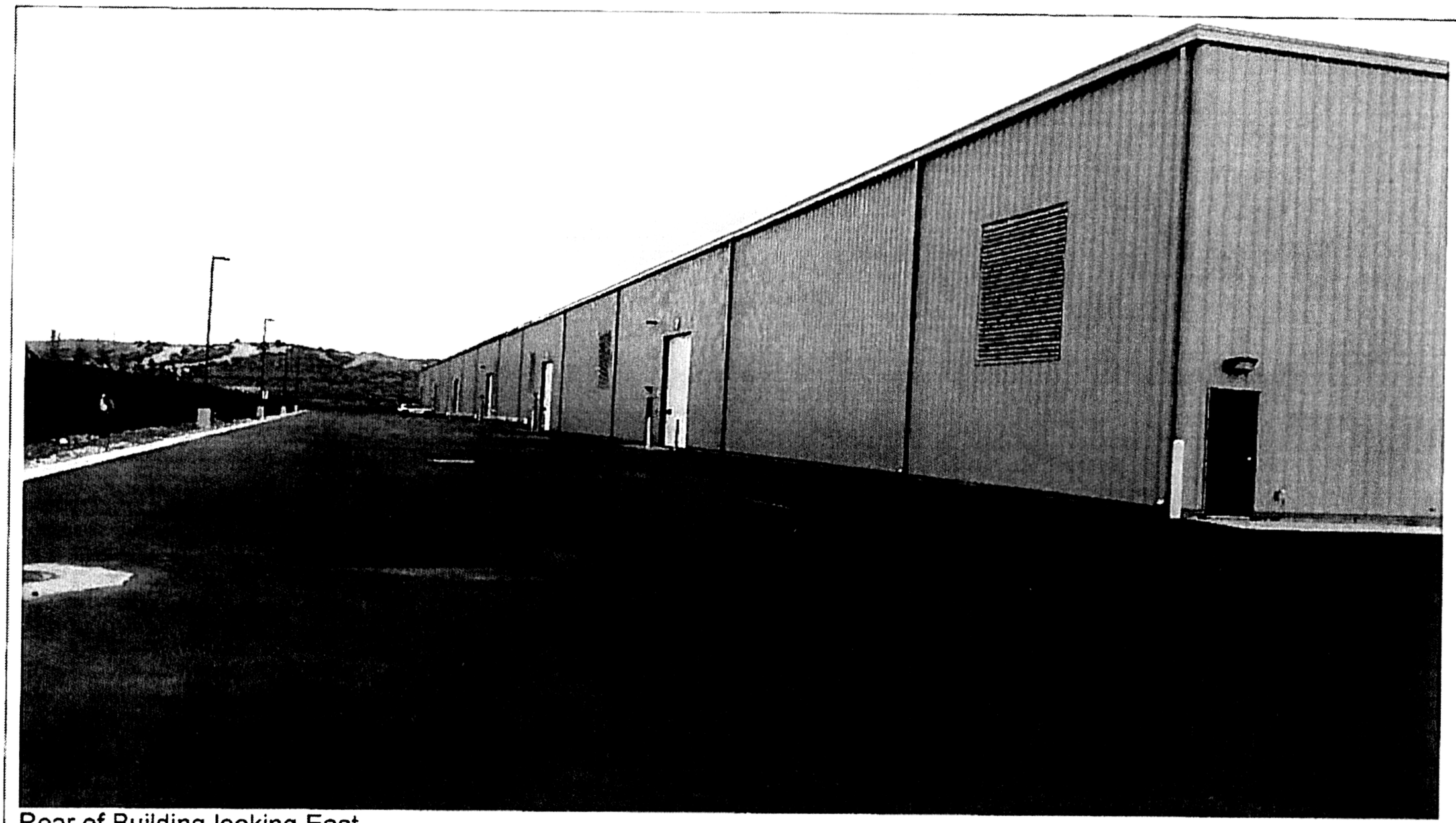
Building Photographs

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.

			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 8000 Daytona Road, NW			Policy Number:
City Albuquerque	State NM	ZIP Code 87121	Company NAIC Number:

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Rear of Building looking East

RECEIVED
AUG 03 2015
LAND DEVELOPMENT SECTION

Building Photographs

Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.

			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 8000 Daytona Road, NW			Policy Number:
City Albuquerque	State NM	ZIP Code 87121	Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

Northside of Building looking East

RECEIVED
AUG 03 2015
LAND DEVELOPMENT SECTION

GRANT OF TEMPORARY DRAINAGE EASEMENT
TRACT 6 AVALON SUBDIVISION UNIT 5

This Temporary Drainage Easement is granted by I-40 South, LLC, a NM limited liability company.

Recitals:

1. Westco Albuquerque, LLC, a New Mexico limited liability company, and Westco Albuquerque II, LLC, a New Mexico limited liability company (hereinafter collectively "Grantee") have acquired Tract 5-A of Avalon Subdivision, Unit 5, as shown on the plat of Tract 5-A, Avalon Subdivision, Unit 5, which was filed for record on July 24, 2014 as Document No. 2014058257 from the individual members of I-40 South, LLC, a New Mexico limited liability company ("I-40 South" or "Grantor").

2. Grantee has requested I-40 South to grant an easement on the easterly portion of Tract 6, Avalon Subdivision Unit 5, as shown on the plat of Tracts 1 through 12, Avalon Subdivision, Unit 5, which was filed for record on May 22, 2014 as Document No. 2014040949, so that it can channel historical water flows that come from the west and across said Tract 6 which will allow it to construct improvements on Tract 5-A of Avalon Subdivision, Unit 5.

3. I-40 South has agreed to grant a temporary easement on terms and conditions set forth herein.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I-40 South does hereby grant, bargain, sell and convey unto Westco Albuquerque, LLC and Westco Albuquerque II, LLC, their successors and assigns, a temporary easement for drainage, flood control and conveyance of storm water and the construction, reconstruction, operation and maintenance of, and access to such facilities; on, in, under, over, and across the real estate described on Exhibit A which is attached hereto and incorporated herein.

Except by the written approval of Grantor, no fence, building, or other permanent improvement or obstruction may be placed or maintained in said easement. Grantee shall be responsible to properly maintain the easement and all improvements located therein.

TO HAVE AND TO HOLD the easement for the uses and purposes aforesaid, unto the Grantee, its successors and assigns until such time as the Grantor, its successors or assigns shall develop all or that portion of Tract 6 Avalon Subdivision Unit 5 which is contiguous to Tract 5-A and all flow from and across Tract 6 is controlled by Grantor, its successors or assigns, at which time the Grantee, its successors or assigns shall convey and release the easement to the Grantor, its successors or assigns by quitclaim deed.

4813-6976-1052v2

RECEIVED
AUG 03 2015
LAND DEVELOPMENT SECTION

THERE IS RESERVED unto Grantor the right to use the land described on Exhibit A for open space, landscaping, parking and other purposes which will not interfere with the rights hereby granted.

WITNESS its hand and seal this 20th day of August, 2014.

I-40 SOUTH, LLC

By: _____
Thomas F. Keleher, its Manager

Corporate Acknowledgment

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 20th day of August, 2014, by Thomas F. Keleher, Manager of I-40 South, LLC, a New Mexico limited liability company.

_____
Notary Public

My commission expires: 1/22/17

OFFICIAL SEAL
Margaret A. Bois
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 1/22/17

4813-6976-1052v2

RECEIVED
AUG 03 2015
LAND DEVELOPMENT SECTION

Legal Description
Temporary Private Drainage Easement

A PRIVATE DRAINAGE EASEMENT LYING AND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTIONS 16 AND 21, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, BERNALILLO COUNTY, NEW MEXICO, COMPRISING A PORTION OF TRACT 6, AVALON SUBDIVISION UNIT 5, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MAY 22, 2014, IN BOOK 2014C, PAGE 46, SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED BY NEW MEXICO STATE PLANE COORDINATE SYSTEM GRID BEARINGS (CENTRAL ZONE-NAD 1983) AND GROUND DISTANCES (US SURVEY FOOT) AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF DESCRIBED EASEMENT, ALSO BEING THE NORTHEAST CORNER OF SAID TRACT 6, LYING ON THE SOUTH RIGHT OF WAY LINE OF DAYTONA ROAD, N.W. , MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993", FROM WHENCE A TIE TO ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM MONUMENT "REWARD" BEING A U.S. COAST & GEODETIC SURVEY BENCHMARK BRASS DISK SET IN CONCRETE, STAMPED "REWARD 1969", WHICH BEARS N 85°16'05" E, A DISTANCE OF 3,780.54 FEET;

THENCE FROM SAID POINT OF BEGINNING, LEAVING SAID SOUTH RIGHT OF WAY LINE, S 04°10'50" E, A DISTANCE OF 585.24 FEET TO AN ANGLE POINT MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE S 14°56'38" E, A DISTANCE OF 447.94 FEET TO THE SOUTHEAST CORNER OF DESCRIBED EASEMENT LYING ON THE NORTH RIGHT-OF-WAY LINE OF LOS VOLCANES ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE, S 86°17'45" W, A DISTANCE OF 83.77 FEET TO THE SOUTHWEST CORNER OF DESCRIBED EASEMENT;

THENCE LEAVING SAID NORTH RIGHT-OF-WAY LINE, N 08°07'10" W, A DISTANCE OF 85.87 FEET TO AN ANGLE POINT;

THENCE N 24°48'20" E, A DISTANCE OF 34.34 FEET TO AN ANGLE POINT;

THENCE N 14°56'38" W, A DISTANCE OF 324.66 FEET TO AN ANGLE POINT;

THENCE N 04°10'50" W, A DISTANCE OF 589.88 FEET TO THE NORTHWEST CORNER OF DESCRIBED EASEMENT LYING ON SAID SOUTH RIGHT-OF-WAY LINE OF DAYTONA ROAD, N.W.;

THENCE ALONG SAID SOUTH RIGHT-OF-WAY LINE, N 85°47'25" E, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING, SAID EASEMENT HAVING AN AREA OF 1.2475 ACRES (54,343 SQUARE FEET) MORE OR LESS, and all as shown on Page 2 of 2.

EXHIBIT "A"

4813-6976-1052v2

RECEIVED
AUG 03 2015
LAND DEVELOPMENT SECTION

LEGAL DESCRIPTION

Temporary Private Drainage Easement

A PRIVATE DRAINAGE EASEMENT LYING AND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTIONS 16 AND 21, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, BERNALILLO COUNTY, NEW MEXICO, COMPRISING A PORTION OF TRACT 6, AVALON SUBDIVISION UNIT 5, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MAY 22, 2014, IN BOOK 2014C, PAGE 46, SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED BY NEW MEXICO STATE PLANE COORDINATE SYSTEM GRID BEARINGS (CENTRAL ZONE-NAD 1983) AND GROUND DISTANCES (US SURVEY FOOT) AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF DESCRIBED EASEMENT, ALSO BEING THE NORTHEAST CORNER OF SAID TRACT 6, LYING ON THE SOUTH RIGHT OF WAY LINE OF DAYTONA ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993", FROM WHENCE A TIE TO ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM MONUMENT "REWARD" BEING A U.S. COAST & GEODETIC SURVEY BENCHMARK BRASS DISK SET IN CONCRETE, STAMPED "REWARD 1969", WHICH BEARS S 85°16'05" W, A DISTANCE OF 3,780.54 FEET;

THENCE FROM SAID POINT OF BEGINNING, LEAVING SAID SOUTH RIGHT OF WAY LINE,
S 04°10'50" E, A DISTANCE OF 585.24 FEET TO AN ANGLE POINT MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE S 14°56'38" E, A DISTANCE OF 447.94 FEET TO THE SOUTHEAST CORNER OF DESCRIBED EASEMENT LYING ON THE NORTH RIGHT-OF-WAY LINE OF LOS VOLCANES ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE, S 86°17'45" W, A DISTANCE OF 83.77 FEET TO THE SOUTHWEST CORNER OF DESCRIBED EASEMENT;

THENCE LEAVING SAID NORTH RIGHT-OF-WAY LINE, N 08°07'10" W, A DISTANCE OF 85.87 FEET TO AN ANGLE POINT;

THENCE N 24°48'20" E, A DISTANCE OF 34.34 FEET TO AN ANGLE POINT;

THENCE N 14°56'38" W, A DISTANCE OF 324.66 FEET TO AN ANGLE POINT;

THENCE N 04°10'50" W, A DISTANCE OF 589.88 FEET TO THE NORTHWEST CORNER OF DESCRIBED EASEMENT LYING ON SAID SOUTH RIGHT-OF-WAY LINE OF DAYTONA ROAD, N.W.;

THENCE ALONG SAID SOUTH RIGHT-OF-WAY LINE, N 85°47'25" E, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING, SAID EASEMENT HAVING AN AREA OF 1.2475 ACRES (54,343 SQUARE FEET) MORE OR LESS, AND ALL AS SHOWN ON PAGE 2 OF 2.

Surveyor's Certificate

I, LARRY W. MEDRANO LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS LEGAL DESCRIPTION, AND EASEMENT SURVEY WAS PREPARED BY ME OR UNDER MY DIRECTION FROM NOTES OF AN ACTUAL FIELD SURVEY, AND THE SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

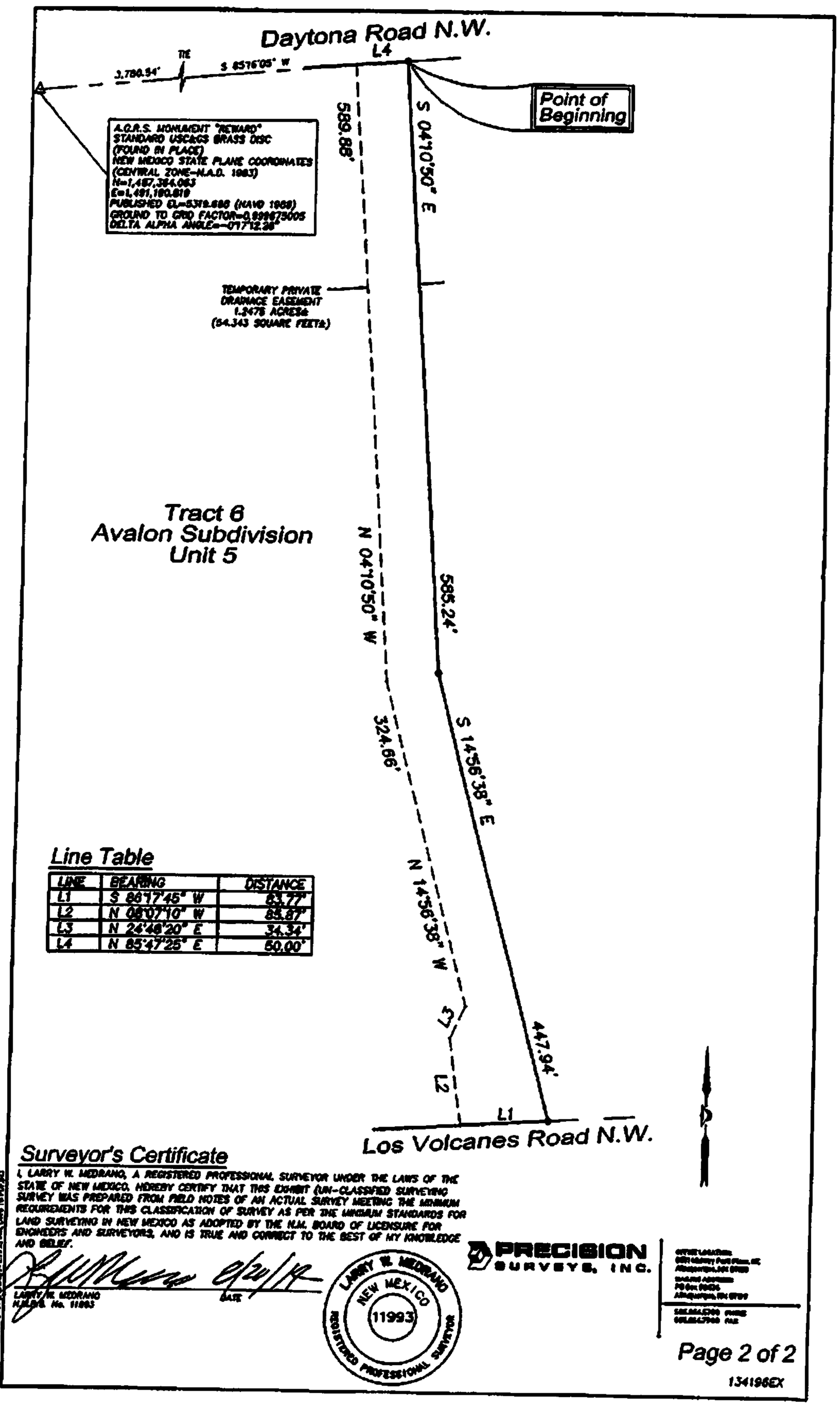
8/20/14

LARRY W. MEDRANO
N.M.P.S. NO. 11993

LARRY W. MEDRANO
NEW MEXICO
11993
REGISTERED PROFESSIONAL SURVEYOR

RECEIVED
AUG 03 2015
LAND DEVELOPMENT SECTION

Exhibit "A"



Line Table

LINE	BEARING	DISTANCE
L1	S 86°17'45" W	83.77'
L2	N 08°07'10" W	85.87'
L3	N 24°48'20" E	34.34'
L4	N 85°47'25" E	60.00'

Surveyor's Certificate

I, LARRY W. MEDRANO, A REGISTERED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT THIS EXHIBIT (UN-CLASSIFIED SURVEYING SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS FOR THIS CLASSIFICATION OF SURVEY AS PER THE MINIMUM STANDARDS FOR LAND SURVEYING IN NEW MEXICO AS ADOPTED BY THE N.M. BOARD OF LICENSURE FOR ENGINEERS AND SURVEYORS, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LARRY W. MEDRANO
N.M.P.S. No. 11993

DATE

LARRY W. MEDRANO
NEW MEXICO
11993
REGISTERED PROFESSIONAL SURVEYOR

PRECISION SURVEYS, INC.

Page 2 of 2

134196EX

City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEX Ground City Drainage #: K09D026A

DRB#: EPC#: 14EPC-40012 (Project #1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13, and Tract 14A, Town of Atrisco Grant Unit 5

City Address: Not yet assigned

Engineering Firm: Tierra West, LLC Contact: Vincent Carrica, P.E.

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: vcarrica@tierrawestllc.com

Owner: Contact:

Address:

Phone#: Fax#: E-mail:

Architect: Contact:

Address:

Phone#: Fax#: E-mail:

Surveyor: Contact:

Address:

Phone#: Fax#: E-mail:

Contractor: Contact:

Address:

Phone#: Fax#: E-mail:

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ EROSION & SEDIMENT CONTROL PLAN (ESC)
✓ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
✓ CERTIFICATE OF OCCUPANCY (PERM)
___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes X No ___ Copy Provided

DATE SUBMITTED: July 30, 2015 By: Vincent Carrica, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, anc scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

U.S. DEPARTMENT OF HOMELAND SECURITY
FEDERAL EMERGENCY MANAGEMENT AGENCY
National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1–9.

OMB No. 1660-0008
Expiration Date: July 31, 2015

SECTION A – PROPERTY INFORMATION

	FOR INSURANCE COMPANY USE
A1. Building Owner's Name Westco Albuquerque LLC/Westco Albuquerque II	Policy Number:
A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 8000 Daytona Road, NW	Company NAIC Number:

City Albuquerque State NM ZIP Code 87121

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
Tract 5-A, Avalon Subdivision Unit 5

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) Commercial
A5. Latitude/Longitude: Lat. 35d05'12.78" N Long. 106d44'5.19" W Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983
A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.
A7. Building Diagram Number 1A
A8. For a building with a crawlspace or enclosure(s):
a) Square footage of crawlspace or enclosure(s) n/a sq ft
b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade n/a
c) Total net area of flood openings in A8.b n/a sq in
d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:
a) Square footage of attached garage n/a sq ft
b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade n/a
c) Total net area of flood openings in A9.b n/a sq in
d) Engineered flood openings? ☐ Yes ☒ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
Bernalillo County Unincorporated 350001	Bernalillo	NM

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
35001C0328	H	08/16/2012	08/16/2012	AO	Depth 1'

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____
B11 Indicate elevation datum used for BFE in Item B9 ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____
B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☐ No
Designation Date. _____ ☐ CBRS ☐ OPA

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.
C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.
Benchmark Utilized: 13_K10 Vertical Datum: _____
Indicate elevation datum used for the elevations in items a) through h) below. ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____
Datum used for building elevations must be the same as that used for the BFE.

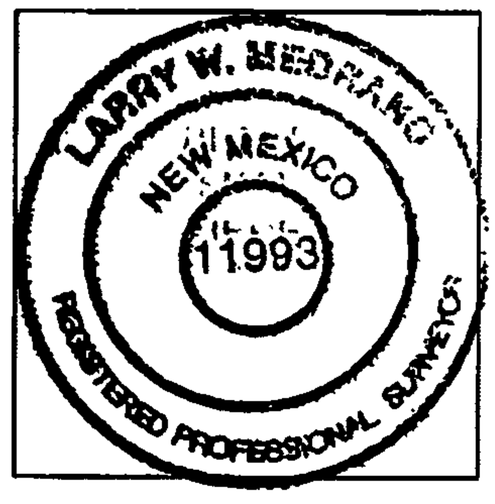
		Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	5187.03	☒ feet	☐ meters
b) Top of the next higher floor	n/a	☐ feet	☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	n/a	☐ feet	☐ meters
d) Attached garage (top of slab)	n/a	☐ feet	☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	5184.61	☒ feet	☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	5183.03	☒ feet	☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	5186.97	☒ feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	5183.03	☒ feet	☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

☐ Check here if comments are provided on back of form.
☐ Check here if attachments.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No



Certifier's Name Larry W Medrano		License Number NMPS 11993	
Title President	Company Name Precision Surveys, Inc.		
Address PO Box 90636	City Albuquerque	State NM	ZIP Code 87199
Signature Digitally signed by Larry Medrano Location: Albuquerque NM Date: 2015.07.30 13:33:56-06'00'	Date 07/30/2015	Telephone 505-856-5700	

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 8000 Daytona Road, NW			Policy Number:
City Albuquerque	State NM	ZIP Code 87121	Company NAIC Number:

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments

Signature [redacted] Digitally signed by Larry Medrano Location Albuquerque NM Date: 2015 07 30 13 34 36-06'00' [redacted] Date

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____._____ ☒ feet ☐ meters ☒ above or ☐ below the HAG.

b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____._____ ☒ feet ☐ meters ☒ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8–9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____._____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3 Attached garage (top of slab) is _____._____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____._____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner's or Owner's Authorized Representative's Name

Address | City | State | ZIP Code

Signature | Date | Telephone

Comments

☐ Check here if attachments.

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3 ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8 Elevation of as-built lowest floor (including basement) of the building: _____._____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____._____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____._____ ☐ feet ☐ meters Datum _____

Local Official's Name | Title

Community Name | Telephone

Signature | Date

Comments

☐ Check here if attachments.

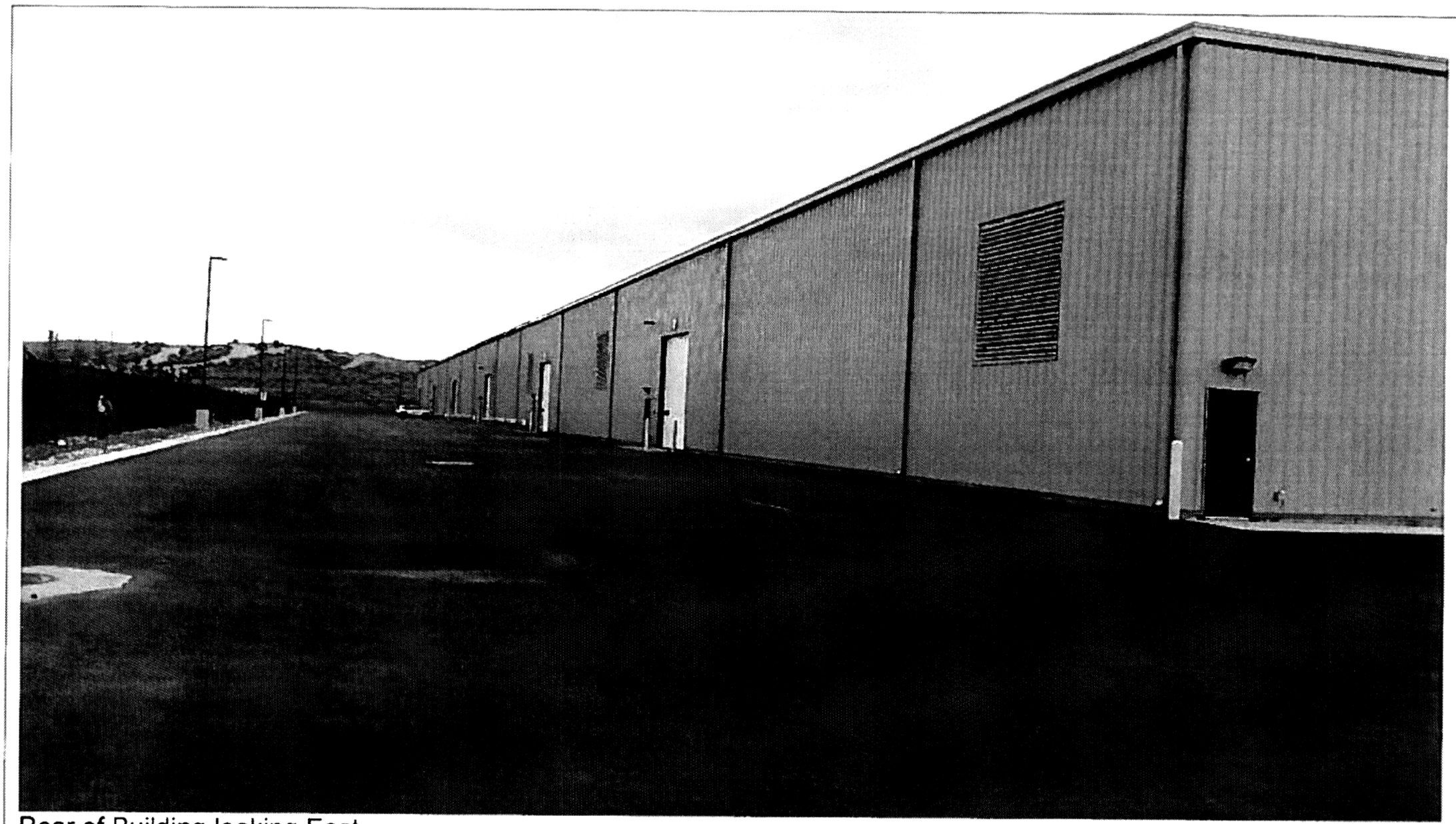
Building Photographs

See Instructions for Item A6.

IMPORTANT: In these spaces, copy the corresponding information from Section A.

			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 8000 Daytona Road, NW			Policy Number:
City Albuquerque	State NM	ZIP Code 87121	Company NAIC Number:

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Rear of Building looking East

Building Photographs

Continuation Page

IMPORTANT: In these spaces, copy the corresponding information from Section A.

			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 8000 Daytona Road, NW			Policy Number:
City Albuquerque	State NM	ZIP Code 87121	Company NAIC Number:

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.

Northside of Building looking East

GRANT OF TEMPORARY DRAINAGE EASEMENT
TRACT 6 AVALON SUBDIVISION UNIT 5

This Temporary Drainage Easement is granted by I-40 South, LLC, a NM limited liability company.

Recitals:

1. Westco Albuquerque, LLC, a New Mexico limited liability company, and Westco Albuquerque II, LLC, a New Mexico limited liability company (hereinafter collectively "Grantee") have acquired Tract 5-A of Avalon Subdivision, Unit 5, as shown on the plat of Tract 5-A, Avalon Subdivision, Unit 5, which was filed for record on July 24, 2014 as Document No. 2014058257 from the individual members of I-40 South, LLC, a New Mexico limited liability company ("I-40 South" or "Grantor").

2. Grantee has requested I-40 South to grant an easement on the easterly portion of Tract 6, Avalon Subdivision Unit 5, as shown on the plat of Tracts 1 through 12, Avalon Subdivision, Unit 5, which was filed for record on May 22, 2014 as Document No. 2014040949, so that it can channel historical water flows that come from the west and across said Tract 6 which will allow it to construct improvements on Tract 5-A of Avalon Subdivision, Unit 5.

3. I-40 South has agreed to grant a temporary easement on terms and conditions set forth herein.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I-40 South does hereby grant, bargain, sell and convey unto Westco Albuquerque, LLC and Westco Albuquerque II, LLC, their successors and assigns, a temporary easement for drainage, flood control and conveyance of storm water and the construction, reconstruction, operation and maintenance of, and access to such facilities; on, in, under, over, and across the real estate described on Exhibit A which is attached hereto and incorporated herein.

Except by the written approval of Grantor, no fence, building, or other permanent improvement or obstruction may be placed or maintained in said easement. Grantee shall be responsible to properly maintain the easement and all improvements located therein.

TO HAVE AND TO HOLD the easement for the uses and purposes aforesaid, unto the Grantee, its successors and assigns until such time as the Grantor, its successors or assigns shall develop all or that portion of Tract 6 Avalon Subdivision Unit 5 which is contiguous to Tract 5-A and all flow from and across Tract 6 is controlled by Grantor, its successors or assigns, at which time the Grantee, its successors or assigns shall convey and release the easement to the Grantor, its successors or assigns by quitclaim deed.

4813-6976-1062v2

THERE IS RESERVED unto Grantor the right to use the land described on Exhibit A for open space, landscaping, parking and other purposes which will not interfere with the rights hereby granted.

WITNESS its hand and seal this 20th day of August, 2014.

I-40 SOUTH, LLC

By: _____
Thomas F. Keleher, its Manager

Corporate Acknowledgment

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 20th day of August, 2014, by Thomas F. Keleher, Manager of I-40 South, LLC, a New Mexico limited liability company.

_____
Notary Public

My commission expires: 1/22/17

OFFICIAL SEAL
Margaret A. Bois
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 1/22/17

4813-6976-1052v2

Legal Description
Temporary Private Drainage Easement

A PRIVATE DRAINAGE EASEMENT LYING AND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTIONS 16 AND 21, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, BERNALILLO COUNTY, NEW MEXICO, COMPRISING A PORTION OF TRACT 6, AVALON SUBDIVISION UNIT 5, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MAY 22, 2014, IN BOOK 2014C, PAGE 46, SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED BY NEW MEXICO STATE PLANE COORDINATE SYSTEM GRID BEARINGS (CENTRAL ZONE-NAD 1983) AND GROUND DISTANCES (US SURVEY FOOT) AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF DESCRIBED EASEMENT, ALSO BEING THE NORTHEAST CORNER OF SAID TRACT 6, LYING ON THE SOUTH RIGHT OF WAY LINE OF DAYTONA ROAD, N.W. , MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993", FROM WHENCE A TIE TO ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM MONUMENT "REWARD" BEING A U.S. COAST & GEODETIC SURVEY BENCHMARK BRASS DISK SET IN CONCRETE, STAMPED "REWARD 1969", WHICH BEARS N 85°16'05" E, A DISTANCE OF 3,780.54 FEET;

THENCE FROM SAID POINT OF BEGINNING, LEAVING SAID SOUTH RIGHT OF WAY LINE, S 04°10'50" E, A DISTANCE OF 585.24 FEET TO AN ANGLE POINT MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE S 14°56'38" E, A DISTANCE OF 447.94 FEET TO THE SOUTHEAST CORNER OF DESCRIBED EASEMENT LYING ON THE NORTH RIGHT-OF-WAY LINE OF LOS VOLCANES ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE, S 86°17'45" W, A DISTANCE OF 83.77 FEET TO THE SOUTHWEST CORNER OF DESCRIBED EASEMENT;

THENCE LEAVING SAID NORTH RIGHT-OF-WAY LINE, N 08°07'10" W, A DISTANCE OF 85.87 FEET TO AN ANGLE POINT;

THENCE N 24°48'20" E, A DISTANCE OF 34.34 FEET TO AN ANGLE POINT;

THENCE N 14°56'38" W, A DISTANCE OF 324.66 FEET TO AN ANGLE POINT;

THENCE N 04°10'50" W, A DISTANCE OF 589.88 FEET TO THE NORTHWEST CORNER OF DESCRIBED EASEMENT LYING ON SAID SOUTH RIGHT-OF-WAY LINE OF DAYTONA ROAD, N.W.;

THENCE ALONG SAID SOUTH RIGHT-OF-WAY LINE, N 85°47'25" E, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING, SAID EASEMENT HAVING AN AREA OF 1.2475 ACRES (54,343 SQUARE FEET) MORE OR LESS, and all as shown on Page 2 of 2.

EXHIBIT "A"

4813-6976-1052v2

LEGAL DESCRIPTION

Temporary Private Drainage Easement

A PRIVATE DRAINAGE EASEMENT LYING AND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTIONS 16 AND 21, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, BERNALILLO COUNTY, NEW MEXICO, COMPRISING A PORTION OF TRACT 6, AVALON SUBDIVISION UNIT 5, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MAY 22, 2014, IN BOOK 2014C, PAGE 46, SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED BY NEW MEXICO STATE PLANE COORDINATE SYSTEM GRID BEARINGS (CENTRAL ZONE-NAD 1983) AND GROUND DISTANCES (US SURVEY FOOT) AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF DESCRIBED EASEMENT, ALSO BEING THE NORTHEAST CORNER OF SAID TRACT 6, LYING ON THE SOUTH RIGHT OF WAY LINE OF DAYTONA ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993", FROM WHENCE A TIE TO ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM MONUMENT "REWARD" BEING A U.S. COAST & GEODETIC SURVEY BENCHMARK BRASS DISK SET IN CONCRETE, STAMPED "REWARD 1969", WHICH BEARS S 85°16'05" W, A DISTANCE OF 3,780.54 FEET;

THENCE FROM SAID POINT OF BEGINNING, LEAVING SAID SOUTH RIGHT OF WAY LINE,
S 04°10'50" E, A DISTANCE OF 585.24 FEET TO AN ANGLE POINT MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE S 14°56'38" E, A DISTANCE OF 447.94 FEET TO THE SOUTHEAST CORNER OF DESCRIBED EASEMENT LYING ON THE NORTH RIGHT-OF-WAY LINE OF LOS VOLCANES ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE, S 86°17'45" W, A DISTANCE OF 83.77 FEET TO THE SOUTHWEST CORNER OF DESCRIBED EASEMENT;

THENCE LEAVING SAID NORTH RIGHT-OF-WAY LINE, N 08°07'10" W, A DISTANCE OF 85.87 FEET TO AN ANGLE POINT;

THENCE N 24°48'20" E, A DISTANCE OF 34.34 FEET TO AN ANGLE POINT;

THENCE N 14°56'38" W, A DISTANCE OF 324.66 FEET TO AN ANGLE POINT;

THENCE N 04°10'50" W, A DISTANCE OF 589.88 FEET TO THE NORTHWEST CORNER OF DESCRIBED EASEMENT LYING ON SAID SOUTH RIGHT-OF-WAY LINE OF DAYTONA ROAD, N.W.;

THENCE ALONG SAID SOUTH RIGHT-OF-WAY LINE, N 85°47'25" E, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING, SAID EASEMENT HAVING AN AREA OF 1.2475 ACRES (54,343 SQUARE FEET) MORE OR LESS, AND ALL AS SHOWN ON PAGE 2 OF 2.

Surveyor's Certificate

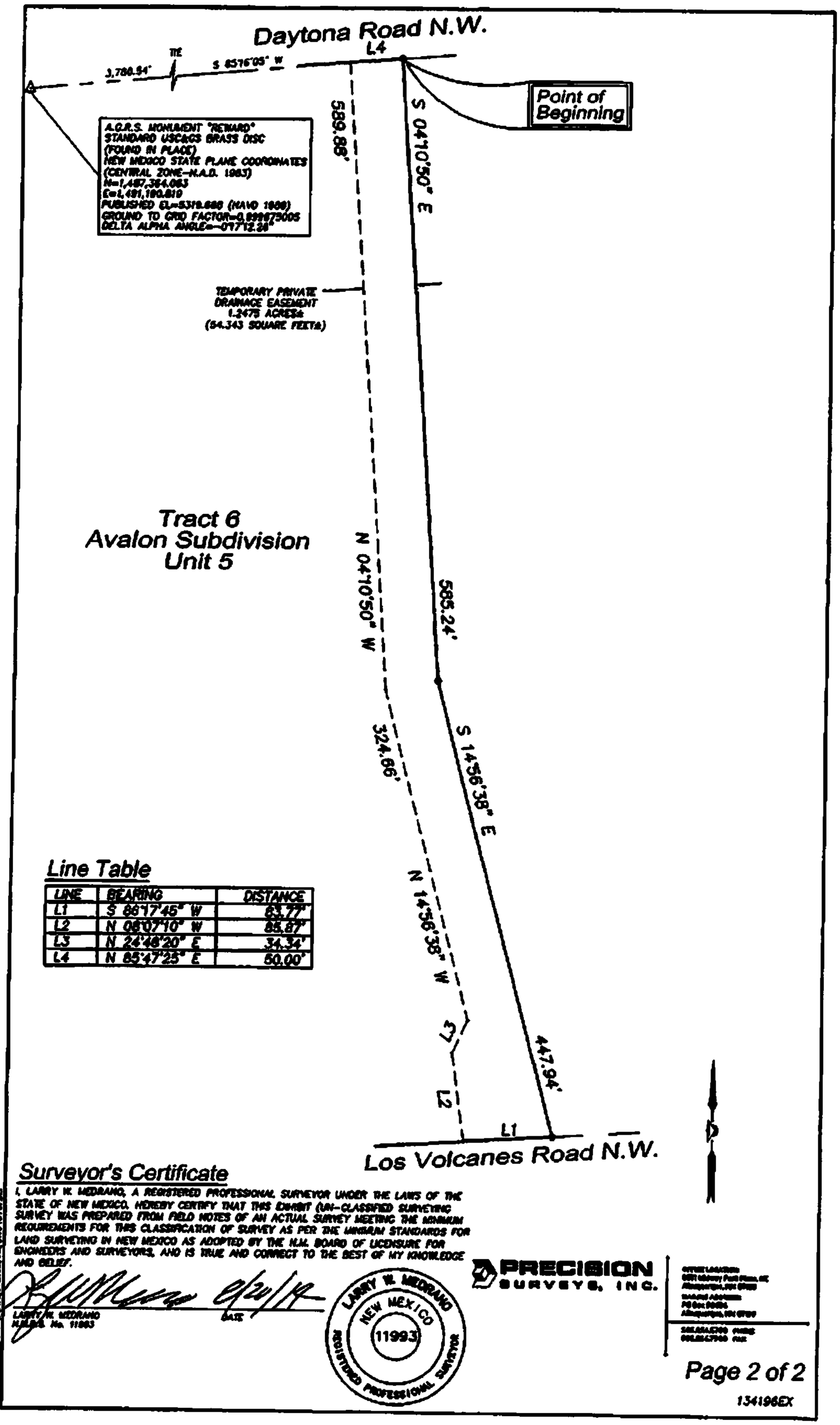
I, LARRY W. MEDRANO LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS LEGAL DESCRIPTION, AND EASEMENT SURVEY WAS PREPARED BY ME OR UNDER MY DIRECTION FROM NOTES OF AN ACTUAL FIELD SURVEY, AND THE SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

8/20/14

LARRY W. MEDRANO
N.M.P.S. NO. 11993

LARRY W. MEDRANO NEW MEXICO 11993 REGISTERED PROFESSIONAL SURVEYOR

Exhibit "A"



Line Table

LINE	BEARING	DISTANCE
L1	S 86°17'45" W	83.77'
L2	N 06°07'10" W	85.87'
L3	N 24°46'20" E	34.34'
L4	N 85°47'25" E	50.00'

Surveyor's Certificate

I, LARRY W. MEDRANO, A REGISTERED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT THIS EXHIBIT (UN-CLASSIFIED SURVEYING SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS FOR THIS CLASSIFICATION OF SURVEY AS PER THE MINIMUM STANDARDS FOR LAND SURVEYING IN NEW MEXICO AS ADOPTED BY THE N.M. BOARD OF LICENSURE FOR ENGINEERS AND SURVEYORS, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LARRY W. MEDRANO
N.M.P.S. No. 11993

DATE

LARRY W. MEDRANO
NEW MEXICO
11993
REGISTERED PROFESSIONAL SURVEYOR

PRECISION SURVEYS, INC.

Page 2 of 2

134196EX

CITY OF ALBUQUERQUE

July 1, 2015

Vincent Carrica, PE
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, NM 87109

Re: FedEx Ground
8000 Daytona Rd NW
Request Temporary C.O. 180 day - Accepted
Engineer's Stamp dated: 10-20-14 (K09D026A)
Certification dated: 6-29-15

Dear Mr. Carrica,

Based on the Certification received 6/29/2015, the above mentioned building is acceptable for release of a 180 day Temporary Certificate of Occupancy by Hydrology.

If you have any questions, you can contact me at 924-3695 or Rudy Rael at 924-3977.

Sincerely,

Rita Harmon, P.E.
Senior Engineer, Hydrology
Planning Department

RR/RH
C: email

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEX Ground City Drainage #: K09D026A

DRB#: EPC#: 14EPC-40012 (Project #1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13, and Tract 14A, Town of Atrisco Grant Unit 5

City Address: Not yet assigned

Engineering Firm: Tierra West, LLC Contact: Vincent P Carrica

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail vcarrica@tierrawestllc.com

Owner: 362-4489 Contact:

Address:

Phone# Fax#: E-mail:

Architect: Contact:

Address:

Phone#: Fax#: E-mail:

Surveyor: Cartesian Surveys Contact: Will Plotner

Address:

Phone#: Fax#: E-mail.

Contractor: W&G Construction Company Contact: Chris White

Address: 470 Central Road, Fredericksburg, VA 22401

Phone#: 540-368-2688 Fax#: E-mail: cwhite@wandgconstruction.com

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ EROSION & SEDIMENT CONTROL PLAN (ESC)
X ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
X ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
X CERTIFICATE OF OCCUPANCY (PERM)
X CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION

___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

As varified

RECEIVED
JUN 29 2015
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes X No ___ Copy Provided

DATE SUBMITTED: 6-29-15 By: Vincent Carrica, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1 **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2 **Drainage Plans**. Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4 **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE

October 30, 2014

Vince Carrica, P.E.
Tierra West, LLC
5571 Midway Park Pl NE
Albuquerque, NM 87109

Re: FedEx Ground ABQ Drainage Report and Grading Plan and Drainage Plan Engineer's Stamp Date 10-20-14 (K09D026A)

Dear Mr. Carrica,

Based upon the information provided in your submittal received 10-22-14, the above referenced report and plan is approved for Building Permit. Please attach a copy of this approved plan to the Building Permit construction sets prior to sign-off by Hydrology

Prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required and the following comments will need to be addressed.

1. Provide a private drainage easement with the maintenance defined for the pond northwest of Daytona. The format should follow the one already provided for the desiltation pond west of the Fed Ex site.
2. An easement for Floodway and Storm Drainage Works is on the east side of Tract 5-A of Avalon Subdivision Unit 5. The platting action through DRB should be complete prior to the Engineer Certification for this site.
3. Provide an Elevation Certificate for the work in the Floodplain.

Please contact me at 924-3994 if you have any questions.

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

Sincerely,

Amy L. D. Niese, P.E.
Senior Engineer, Hydrology
Planning Department

12/15/14

VINCE

DOING SOME EROSION CONTROL PLANS FOR BRUCKNER. EROSION COMING OFF INTERSTATE.

C: e-mail

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEx Ground City Drainage #: K09D026A

DRB#: EPC#: 14EPC-40012 (Project#1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13 and Tract 14A, Town of Atrisco Grant Unit 5

City Address:

Engineering Firm: Tierra West, LLC Contact: Vince Carrica

Address: 5571 Midway Park Place NE Albuquerque NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: vcarrica@tierrawestllc.com

Owner: I-40 South , LLC c/o Thomas Keleher Contact: Thomas Keleher

Address: P.O. Box AA, Albuquerque, NM 87103

Phone#: 505-346-4646 Fax#: E-mail: tfk@keleher-law.com

Architect: Castle Design Group Contact: Larry L. Christian

Address: 3801 Kirby Drtive, Suite 600, Houston, TX 77098

Phone#: 713-664-7974 Fax#: E-mail: lchristian@castledesigngroup.com

Surveyor: Precision Surveys Contact: Larry Medrano

Address: 5571 Midway Park Place NE Albuquerque NM 87109

Phone#: Fax#: E-mail:

Contractor: W&G Construction Company Contact: Chris White

Address: 470 Central Road, Fredericksburg, VA 22401

Phone#: 5403682688 Fax#: E-mail: cwhite@wandgconstruction.com

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
X DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ EROSION & SEDIMENT CONTROL PLAN (ESC)
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM)
___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
X BUILDING PERMIT APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED
OCT 22 2014
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes ___ No ___ Copy Provided

DATE SUBMITTED: 09/19/2014 **Revised 10-20-14** By: Vince Carrica

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, an scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

$A_D = 15.5$ $Q_{OUT} = 8.20$ cfs DET (10 cfs MAX ALLOW)

JW

TIERRA WEST, LLC

5571 Midway Park Place NE Albuquerque, NM 87109
(505) 858-3100 Fax (505) 858-1118 1-800-245-3102
tierrawestllc.com

October 20, 2014

Ms. Amy L. D. Niese, P.E.
Senior Engineer, Hydrology
Planning Department
PO Box 1293
Albuquerque, NM 87103

RE: FedEx Ground ABQ Drainage Report and Grading Plan and Drainage Plan Engineer's Stamp Date 9-12-14 (K09D026A)

Dear Ms. Niese:

Per correspondence from your office dated October 06, 2014, please find the following responses addressing the drainage comments listed below:

1. On sheet G-6, a desiltation pond is shown northwest of Daytona. Provide rip-rap on the upward slope from the bottom of the pond elevation to the top of pond. Include a top of pond elevation. Show existing contour elevations that the pond is tying into. What is the top of pond elevation? Provide a swale from the top of pond to the concrete pad for the 24 inch storm pipe. Ultimately, the 24 inch storm pipe will receive 48 cfs. The pipe is at a 20% slope. Reduce the slope and provide the HGL for the proposed 24 inch and 36 inch pipe n Daytona. Also provide the HGL for the storm drain in Los Volcanes. The ROW for Daytona begins to curve near the pond. Show the correct ROW.

   Response: Rip rap, contour elevations, top of pond elevation and a swale have been added to the pond layout. The slope of the 24" lateral pipe has been reduced to 6%. P&P sheets from the work order set are attached for reference with HGL information for both Los Volcanes and Daytona storm drains. The right of way for Daytona is updated on the plan.

2. Provide a private drainage easement with the maintenance defined for the pond northwest of Daytona prior to the Grading and Drainage Certification of the Fed Ex Grading and Drainage Plan. The format should follow the one already provided for the desiltation pond west of the Fed Ex site.

   Response: A private drainage easement similar to the easement will be provided for the Daytona desiltation pond prior to grading and drainage certification. The format will follow the easement provided for the drainage easement west of the FedEx site.

   WITH THIS APPROVAL, WILL DRAW EXHIBIT

3. For the pond north of Los Volcanes, provide enough distance for the slope so that it is actually 3:1 as called out on the plan.

   Response: The pond limits have been revised to show the required 3:1 slope distances.

4. Show the storm drainage on the master drainage plan so it is easier to follow the report. Two pipe #20 references are shown. The one by the inlet should be #22 not #20.

   Response: The storm drains have been added to the basin map for clarity and the pipe run numbers have been corrected.

5. In the Storm Drainage Table the basins for Pipe #18 should not include C1D1 and D2D2 for the Interim Condition. The flow stated for Pipe #18 is correct. Pipes #19 and #20 should not include basin LV5 in them because the water goes in the inlet further down at Pipe #22. Pipes #19 and #20 should total to 85.72 cfs instead of 87.00 cfs. The flow for Pipe #22 is stated as 8.48, but the basins referenced add to 7.99 cfs. The basins for Pipe #23 add to 93.71, but the total in the table is 89.86 cfs. AHYMO states 89.04 cfs is going into pond, but the basins (including surface flow) are 87.17 cfs. Please correct all discrepancies. There is no discussion of the storm drain sizing in the tables for the 24 and 36 inch storm drains in Daytona. Include that.

   Response: The noted changes have been made to the drainage table.

6. Under Interim Drainage Conditions, the report states 16.1 cfs drains to the desiltation pond north of Los Volcanes. The amount is 28.34 cfs for the summation of the drainage basins referenced. Please revise.

   Response: The report has been revised with noted change.

7. Provide a detail (width and size) for the rip-rap along the east and south sides of the parking lot.

   Response: A detail has been added to sheet GR-4.

8. Where the 18 inch storm drains connect to the storm pipe north of the building, what are the inverts?

   Response: Noted inverts have been added to sheet GR-3.

9. Inlet (2) is supposed to be a double inlet per your letter. Call it out as such on the grading plate.

   Response: Inlet (2) is now shown on the plans as a double inlet.

10. An easement for Floodway and Storm Drainage Works is on the east side of Tract 5-A of Avalon Subdivision Unit 5. The platting action through DRB should be complete prior to the Certificate of Occupancy for this site.

    Response: The plat was submitted and approved by DRB. We are seeking signatures from dry utility companies prior to recording the plat showing the vacation of the drainage easement along the east side of the FedEx property.
    HOLDING FOR POSSIBLE ONSITE W/ EASEMENT.

If you have any questions or need additional information regarding this response, please do not hesitate to contact me.

Sincerely,

Vincent Carrica, P.E.

Enclosure/s

JN: 2013075.20
VPC/sc Z:\2013\2013075 Daytona Blvd Distribution Center\Working Documents\2013075.20 14-10-21 Final FedEx Ground Response Letter - Amy L. D. Niese.docx

DRAINAGE REPORT

For

FEDEX GROUND ABQ
ALBUQUERQUE, NEW MEXICO

Prepared by

Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, New Mexico 87109

Prepared for

W&G Construction Company
470 Central Rd.
Fredericksburg, VA 22401

October 09, 2014

VINCENT P. CARRICA
NEW MEXICO
16212
LICENSED PROFESSIONAL ENGINEER

10-20-14

Vincent Carrica, PE # 16212

TABLE OF CONTENTS

Zone Atlas Map J-9, K-9 1

Location 3

Drainage Basin Designation 3

Existing Drainage Conditions 3

FIRM Map and Soil Conditions 3

Design Criteria 4

Land Treatments 4

Interim Drainage Conditions 5

Ultimate Drainage Conditions 6

Summary 7

Drainage Calculations 8

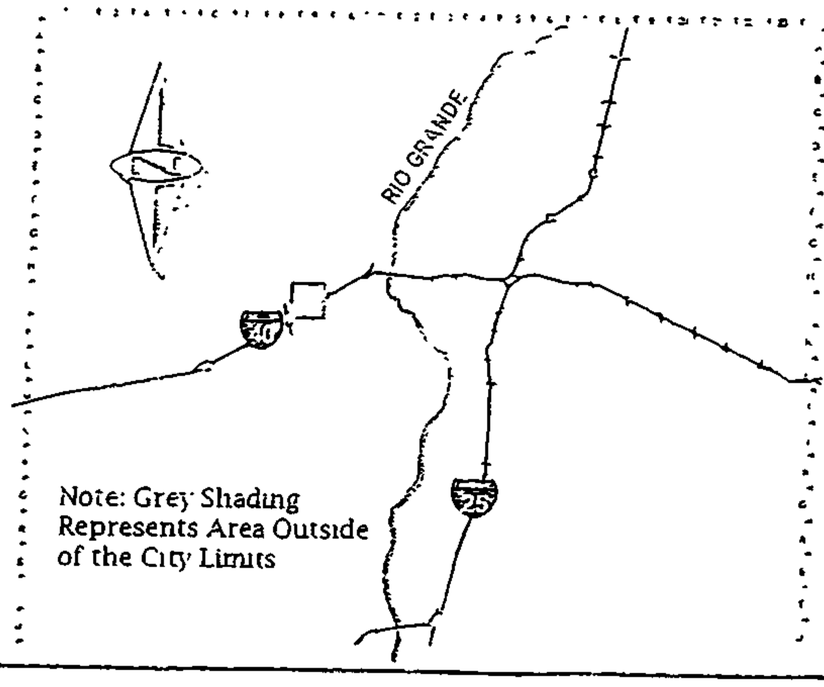
GRADING AND DRAINAGE PLAN ..... MAP POCKET

Basin Map Developed Conditions ..... MAP POCKET

For more current information and more details visit. http://www.cabq.gov/gis

Albuquerque Geographic Information System

Map amended through: 2/4/2010



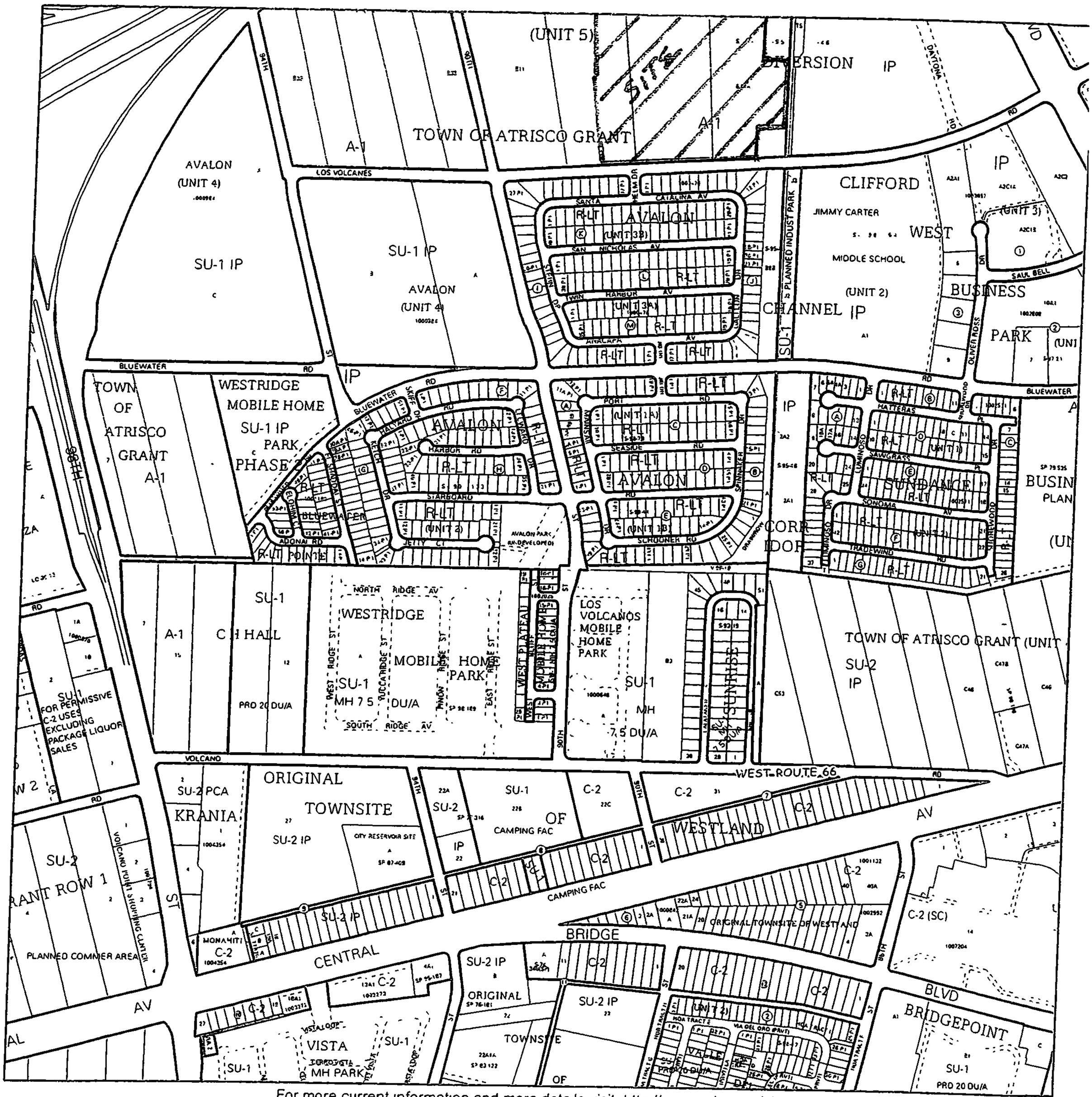
Zone Atlas Page.

J-09-Z

Selected Symbols

SECTOR PLANS
Design Overlay Zones
City Historic Zones
H-1 Buffer Zone
Petroglyph Mon
Escarpment
2 Mile Airport Zone
Airport Noise Contours
Wall Overlay Zone

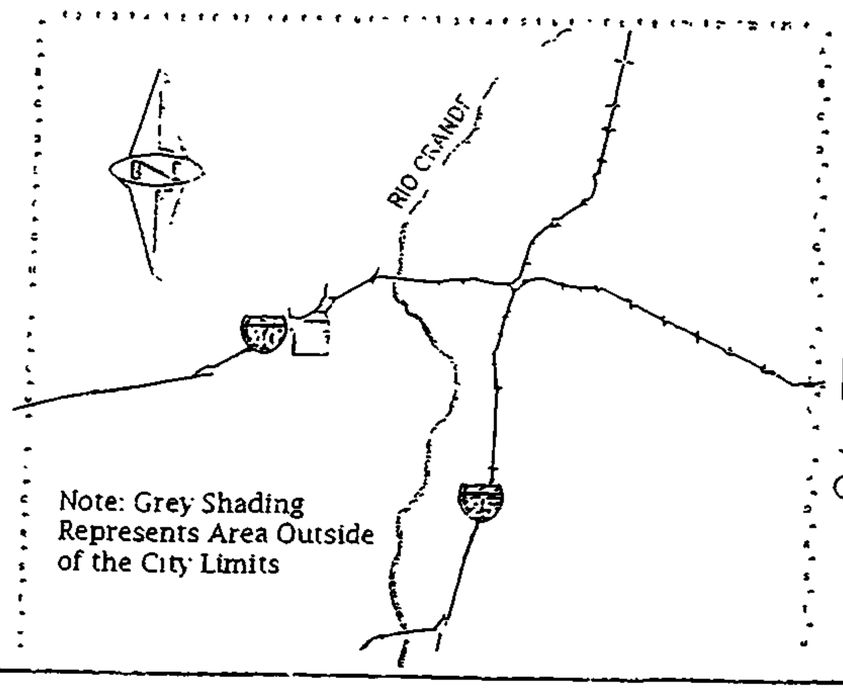
0 750 1,500 Feet



For more current information and more details visit http://www.cabq.gov/gis

Albuquerque Geographic Information System

Map amended through. 2/4/2010



Zone Atlas Page

K-09-Z

Selected Symbols

SECTOR PLANS
Design Overlay Zones
City Historic Zones
H-1 Buffer Zone
Petroglyph Mon.
Escarpment
2 Mile Airport Zone
Airport Noise Contours
Wall Overlay Zone

0 750 1,500 Feet

LOCATION

The proposed commercial development, FedEx Ground ABQ, is comprised of approximately 21.86 acres zoned SU-1 For IP and C-2 Uses and is located in the City of Albuquerque, in Bernalillo County. The site is bordered by Daytona Road to the north, Los Volcanes Road to the south, undeveloped property to the west and storm drain ponds and undeveloped property to the east. An existing ABCWUA water well facility exists adjacent to the southeast corner of the site. The subject property is currently undeveloped with an existing arroyo bisecting the site from northwest to south east.

This report represents a drainage management and grading plan for approval by the City of Albuquerque, for Site Plan for Building Permit submittal.

DRAINAGE BASIN DESIGNATION

The drainage basins for proposed conditions are as indicated on the BASIN MAP included in this report. On-site basins are designated as "A-xx". Off-site upstream basins are designated as "C-xDx". Basins within Daytona right-of-way are designated as "D-1x". Basins within Los Volcanes right-of-way are designated as "LV-x".

EXISTING DRAINGE CONDITIONS

The site is currently undeveloped and drains from northwest to southeast with an existing slope ranging between two to five percent. The northernmost portion of the site is captured in the Mirehaven Arroyo and drains into the temporary Pond 5 of the Unser Diversion Pond system. The remaining southern portion of the site currently drains via surface flow to Los Volcanes Road and into the existing Pond 4 of the Unser Diversion Pond system via curb inlets and storm drain pipes located at the low point in Los Volcanes Road. 19 AC TO WEST

FIRM MAP AND SOIL CONDITIONS

The FedEx Ground Albuquerque is currently partially located in a designated Flood Hazard Zone AO per FEMA – (Firm Map 35001C0328H – See Attached Map). Per the USDA Soil Conservation Services (SCS), the soils type for this site is Bluepoint Loamy fine sand and

Pajarito loamy fine sand and consists largely of undulating excessively drained soils at 1 to 9 percent slopes. Runoff is medium, the hazard of soil blowing is moderate and the hazard of water erosion is slight.

DESIGN-CRITERIA

The drainage plan presented in this report was prepared in accordance with the City of Albuquerque Drainage Ordinances and Chapter 22 of the Development Process Manual DPM. The hydrological analysis is based on the 100-year frequency, 6-hour duration storm, as Represented in Section 22, Part A, Hydrology, of the Development Process Manual. Storage detention ponds are sized for the 100-year, 24-hour storm and ultimately will drain in less than 24 hours.

Rainfall intensities per this report are as follows:

FREQ	ZONE	P60	P360	P1440
100YR	1	1.87	2.20	2.66

Land Treatments:

Proposed Subdivision:

The proposed commercial developed land use values were calculated as follows:

Commercial

A = 0% (Under fully developed conditions, no undisturbed naturally vegetated areas will remain.)

B = 0 % (Under fully developed conditions, no irrigated lawns will be provided)

C = Varies 25% to 100% depending on individual basin which will be landscaped to varying degrees with gravel and Xeriscaping

D= Varies 70% to 100% depending on individual basin which will be paved or covered by buildings

INTERIM DRAINGE CONDITIONS

The current landowner worked with AMAFCA to cut off flows to the Mirehaven Arroyo from the north side of Interstate-40, which will now be routed in the North I-40 Diversion system. This diversion greatly reduces flows that impact this site. AMAFCA will also cause to have a LOMR completed and submitted to FEMA to adjust the flood plain from what is currently mapped. This adjustment to the flood plain will show the proposed site as being removed from the flood plain.

The existing Mirehaven Arroyo that traverses the site from northwest to northeast will be filled in order to construct the proposed improvements including a building, drive aisles and parking facilities. An updated master drainage plan for the area is being prepared by Easterling Consultants, LLC for the City.

Under Interim conditions all upland basins designated as "C-xDx" will remain undeveloped. Basin C-3D will continue to drain to Daytona right-of-way where it will be routed through a desilting pond, captured in a storm drain that will be extended from in front of the existing Bruckner's facility and conveyed east to Pond 6 of the Unser Diversion Pond system.
4.91 16.13 7.30
Basins C-1D2, C-2D1 and C-4D (approximately 28.34 cfs) will drain to a proposed desilting pond and into a storm drain lateral that will direct the flows into the proposed Los Volcanes storm drain that will run east and connect into an existing 48" storm drain and into Pond 4 of the Unser Diversion Pond System. The desilting pond and storm drain lateral are intended to be temporary until such time as the applicable basins are developed where at that point the lateral can be used for a future storm drain curb drop inlet outfall.

LV1 = 2.86
LV2 = 3.08
LV3 = 1.29
LV4 = 0.54
LV5 = 3.08
10.85

3.56 1.60 5.16
Basins C-1D1 and C-2D2 (approximately 5.2 cfs) will continue to drain into the Los Volcanes right-of-way where they will surface flow along with Basin LV-1 thru LV-5 down the roadway to proposed and existing curb drop inlets and into Pond 4 of the Unser Diversion Pond system.
16.01 cfs NET TOTAL

Also under interim drainage conditions, the FedEx Ground site will be developed including all on-site basins designated as "A-xx" along with the north half of Los Volcanes Rd

and the south half of Daytona Rd along the frontage of the FedEx property. All on-site basins
3.29 0.56 = 3.85
with the exception of Basins A-16 and A-17 will drain to an on-site detention pond formerly designated as Pond 5 of the Unser Diversion Pond system. The out flow of this on-site detention pond will be tied to the existing storm drain line that caries flows to Pond 4 of the Unser
2.29 0.56 3.85
Diversion Pond system. Basins A-16 and A-17 will drain to an area Inlet (12) that will be tied to the proposed storm drain in Los Volcanes which will be tied to the existing storm drain that runs into Pond 4 of the Unser Diversion Pond system.

Former Pond 5 of the Unser Diversion System will be a private pond, which will act as a detention pond with an outfall to the Unser Diversion System of less than 10 cfs maximum. An emergency overflow structure exists and will remain on the pond. The overflow directs flows in excess of the pond's capacity to the east along the arroyo's historic route.

The drainage plan for routing flows from the site and from the upland basins is per the I-40 South and Unser Mini Drainage Master Plan prepared by Easterling Consultants LLC as Revision #1 dated April 2014. The existing outlet structure in Pond 5 will be revised to include a ported outlet riser that will restrict the flow rate out of the pond to less than 10 cfs for the 100-year, 24-hour design storm. The proposed maximum flow rate out of Pond 5 will be far less than the allowable flow rate as provided for in the Daytona Road Storm Drain Master Plan prepared for the West Side Transit Facility by Smith Engineering, February 2001. The proposed Pond 5 volume will be 5.66 ac-ft. The required volume at a maximum 10 cfs outflow is 2.39 ac-ft. The bottom of the pond will be one foot lower than the outfall invert to account for the first flush volume and any future sediment build up. Minor on-site ponding is provided in addition to this main detention pond. This minor ponding volume was not included in the calculations for required volumes and outflow from the main pond.

ULTIMATE DRAINAGE CONDITIONS

Under ultimate drainage conditions the on-site drainage basins will continue to drain as described above. Pond 5 will be a private detention pond and will continue to outfall to the existing storm drain culvert that ties Pond 6 to Pond 4 of the Unser Diversion Pond system. The
48.76 23.87 = 72.03
upland off-site basins designated as "C-xDx" will be developed. Basins C-3D and C-4D will drain to Daytona and will be conveyed east to Pond 6 of the Unser Diversion Pond system.
11.65 16.08 52.76 5.23 = 85.72
Basins C-1D1, C-1D2, C-2D1 and C-2D2 will drain south to Los Volcanes where the proposed

storm drain that is constructed under interim conditions will be extended west to accept the developed flows (approximately 85.7 cfs). These flows will be conveyed to Pond 4 of the Unser Diversion Pond system.

4.41 2.87 0.71 = 7.99

Basins D-1A, D-1B and D-1C will drain to existing or proposed drop inlets in Daytona Road and will be conveyed to Pond 6 of the Unser Diversion Pond system. Basins LV-1 through LV-5 will continue to drain down Los Volcanes either as surface flow in the roadway or be intercepted by existing and proposed drop inlets, eventually being routed into Pond 4 of the Unser Diversion Pond system. LV1 THRU LV5 = 10.85 LV4+ LV5 = 0.74+ 1.28= 2.02

A LOMR will be completed to adjust the flood plain and FEMA maps from what is currently mapped. This adjustment to the flood plain will show the proposed site as well as the parcels to the west as having been removed from the flood plain.

SUMMARY

The proposed grading and drainage plan for the FedEx Ground Albuquerque site provides the grading and drainage elements which are capable of safely passing the 100-year storm and meet the COA DPM requirements. Development of the site will take place after the flows into the Mirehaven Arroyo from north of Interstate-40 were cut off, greatly reducing the upland flows from west of the site and effectively removing the site from the existing flood plain. The remaining upland flows and onsite developed flows will be routed via surface flow and underground storm drains to the existing detention pond which in turn is tied to the Unser Diversion Pond system. The proposed drainage plan for developed conditions follows the I-40 South and Unser Mini Drainage Master Plan.

N

GRAPHIC SCALE

100 50 0 50 100

SCALE 1"=100'

ENGINEER'S SEAL	FEDEX GROUND ALBUQUERQUE, NM	DRAWN BY DY
		DATE 9-10-14
	PRE DEVELOPED DRAINAGE BASIN MAP	2013075-BASINS
	TIERRA WEST, LLC 5571 MIDWAY PARK PLACE NE ALBUQUERQUE, NM 87109 (505) 858-3100 www.tierrawestllc.com	SHEET # C2
VINCENT P. CARRICA P.E. #16212		JOB # 2013075

FEDEX GROUND ALBUQUERQUE

Interim Post Developed FedEX Ground Drainage Calculations

FedEx Developed and Upstream Basins Undeveloped

This table is based on the COA DPM Section 22 2, Zone: 1

BASIN	Area	Area	Land Treatment Percentages				Q(100)	Q(100)	WT E	$V(100)_{360}$	$V(100)_{1440}$	$V(100)_{10day}$	Comments
	(SQ FT)	(AC)	A	B	C	D	(cfs/ac)	(CFS)	(inches)	(CF)	(CF)	(CF)	
C-1D1	120225	2.76	100.0%	0.0%	0.0%	0.0%	1.29	3.56	0.44	4408	4408	20438	To Los Volcanes and Pond 4 (Public)
C-1D2	165963	3.81	100 0%	0.0%	0.0%	0.0%	1.29	4.91	0.44	6085	6085	28214	To Temp Swale, Los Volcanes and Pond 4 (Public)
C-2D 1	544591	12.50	100.0%	0.0%	0.0%	0.0%	1.29	16.13	0.44	19968	19968	92580	To Temp Swale, Los Volcanes and Pond 4 (Public)
C-2D 2	54001	1 24	100.0%	0.0%	0.0%	0.0%	1.29	1.60	0.44	1980	1980	9180	To Los Volcanes and Pond 4 (Public)
C-3D	497104	11.41	100.0%	0.0%	0.0%	0.0%	1.29	14.72	0.44	18227	18227	84508	To Daytona and Pond 6 (Public)
C-4D	246344	5 66	100.0%	0.0%	0.0%	0.0%	1.29	7.30	0.44	9033	9033	41878	To Temp Swale, Los Volcanes and Pond 4 (Public)
D-1A	45518	1.04	0.0%	0.0%	10.0%	90.0%	4.22	4.41	1.87	7101	9968	13170	To Pond 6 (Public)
D-1B	29635	0.68	0.0%	0.0%	10.0%	90.0%	4.22	2.87	1.87	4623	6490	8574	To Pond 6 (Public)
D-1C	7360	0.17	0.0%	50.0%	10.0%	40.0%	3.05	0.52	1.22	749	956	1731	To Pond 6 (Public)
D-1D	12710	0.29	0.0%	90.0%	10.0%	0.0%	2.11	0.62	0.70	744	744	2438	To Pond 4 (Public)
A-1	19495	0.45	0.0%	0.0%	100.0%	0.0%	2.87	1.28	0.99	1608	1608	4208	To Pond 5 (Private)
A-2	126940	2.91	0.0%	0.0%	25 0%	75.0%	4.00	11.64	1.73	18248	24912	35173	To Pond 5 (Private)
A-3	35097	0.81	0.0%	0.0%	0.0%	100.0%	4.37	3.52	1.97	5762	8219	10441	To Pond 5 (Private)
A-4	94094	2.16	0.0%	0.0%	25.0%	75.0%	4.00	8.63	1.73	13526	18466	26072	To Pond 5 (Private)
A-5	46006	1.06	0.0%	0 0%	0.0%	100.0%	4.37	4.62	1.97	7553	10773	13687	To Pond 5 (Private)
A-6	22899	0.53	0.0%	0.0%	0.0%	100.0%	4.37	2.30	1.97	3759	5362	6812	To Pond 5 (Private)
A-7	22898	0.53	0.0%	0.0%	0.0%	100.0%	4.37	2.30	1.97	3759	5362	6812	To Pond 5 (Private)
A-8	22896	0.53	0.0%	0.0%	0.0%	100.0%	4.37	2.30	1.97	3759	5361	6812	To Pond 5 (Private)
A-9	20854	0.48	0.0%	0.0%	0.0%	100.0%	4.37	2.09	1.97	3424	4883	6204	To Pond 5 (Private)
A-10	62390	1.43	0.0%	0.0%	10.0%	90.0%	4.22	6.04	1.87	9733	13663	18052	To Pond 5 (Private)
A-11	129032	2.96	0.0%	0.0%	25.0%	75.0%	4.00	11.83	1.73	18548	25323	35753	To Pond 5 (Private)
A-12	67194	1.54	0.0%	0.0%	90.0%	10.0%	3.02	4.66	1.09	6092	6563	15051	To Pond 5 (Private)
A-13	30790	0.71	0.0%	0.0%	25.0%	75.0%	4.00	2.82	1.73	4426	6043	8531	To Pond 5 (Private)
A-14	18000	0.41	0.0%	0.0%	100.0%	0.0%	2.87	1.19	0.99	1485	1485	3885	To Pond 5 (Private)
A-15	195109	4.48	0.0%	0.0%	30.0%	70.0%	3.92	17.56	1.68	27250	36811	53265	To Pond 5 (Private)
A-16	49958	1.15	0.0%	0.0%	100.0%	0.0%	2.87	3.29	0.99	4122	4122	10783	To Los Volcanes and Pond 4 (Public)
A-17	8538	0 20	0.0%	0.0%	100.0%	0.0%	2.87	0.56	0.99	704	704	1843	To Los Volcanes and Pond 4 (Public)
P-5	66622	1.53	0.0%	0.0%	100.0%	0.0%	2.87	4.39	0.99	5496	5496	14379	To Pond 5 (Private)
LV-1	29565	0.68	0.0%	0.0%	10.0%	90.0%	4.22	2.86	1.87	4612	6475	8554	To Pond 4 (Public)
LV-2	31842	0.73	0.0%	0.0%	10.0%	90.0%	4.22	3.08	1.87	4967	6973	9213	To Pond 4 (Public)
LV-3	13271	0.30	0.0%	0.0%	10.0%	90.0%	4.22	1.29	1.87	2070	2906	3840	To Pond 4 (Public)
LV-4	7680	0.18	0.0%	50.0%	10.0%	40.0%	3.05	0.54	1.22	782	997	1806	To Pond 4 (Public)
LV-5	13253	0.30	0.0%	90.0%	10 0%	0.0%	2.11	0.64	0.70	775	775	2542	To Pond 4 (Public)
TOTAL	2857874	65.61						156.07		225380	281142	606430	

Ultimate Post Developed FedEX Ground Drainage Calculations

FedEx Developed and Upstream Basins Developed

		This table is based on the COA DPM Section 22.2, Zone. 1										
BASIN	Area	Area	Land Treatment Percentages				Q(100)	Q(100)	WT E	$V(100)_{360}$	$V(100)_{1440}$	$V(100)_{10day}$	Comments
	(SQ FT)	(AC)	A	B	C	D	(cfs/ac)	(CFS)	(inches)	(CF)	(CF)	(CF)	
C-1D1	120225	2.76	0.0%	0.0%	10.0%	90.0%	4.22	11.65	1.87	18755	26329	34785	To Los Volcanes and Pond 4 (Public)
C-1D2	165963	3.81	0.0%	0.0%	10.0%	90.0%	4.22	16.08	1.87	25890	36346	48019	To Los Volcanes and Pond 4 (Public)
C-2D 1	544591	12.50	0.0%	0.0%	10 0%	90.0%	4.22	52.76	1.87	84956	119265	157568	To Los Volcanes and Pond 4 (Public)
C-2D 2	54001	1.24	0.0%	0.0%	10.0%	90.0%	4.22	5.23	1.87	8424	11826	15624	To Los Volcanes and Pond 4 (Public)
C-3D	497104	11.41	0.0%	0.0%	10.0%	90.0%	4.22	48 16	1.87	77548	108866	143829	To Daytona and Pond 6 (Public)
C-4D	246344	5.66	0.0%	0.0%	10.0%	90.0%	4.22	23.87	1.87	38430	53949	71276	To Daytona and Pond 6 (Public)
D-1A	45518	1.04	0.0%	0.0%	10.0%	90.0%	4.22	4.41	1.87	7101	9968	13170	To Pond 6 (Public)
D-1B	29635	0.68	0.0%	0.0%	10 0%	90.0%	4.22	2.87	1.87	4623	6490	8574	To Pond 6 (Public)
D-1C	7360	0.17	0.0%	0.0%	10.0%	90.0%	4.22	0.71	1.87	1148	1612	2129	To Pond 6 (Public)
D-1D	12710	0.29	0.0%	0.0%	10.0%	90.0%	4.22	1 23	1.87	1983	2783	3677	To Pond 6 (Public)
A-1	19495	0.45	0.0%	0 0%	100.0%	0.0%	2.87	1.28	0.99	1608	1608	4208	To Pond 5 (Private)
A-2	126940	2.91	0.0%	0.0%	25.0%	75.0%	4.00	11.64	1.73	18248	24912	35173	To Pond 5 (Private)
A-3	35097	0.81	0.0%	0 0%	0.0%	100.0%	4.37	3.52	1.97	5762	8219	10441	To Pond 5 (Private)
A-4	94094	2.16	0 0%	0.0%	25 0%	75.0%	4.00	8.63	1.73	13526	18466	26072	To Pond 5 (Private)
A-5	46006	1.06	0.0%	0.0%	0.0%	100.0%	4.37	4.62	1.97	7553	10773	13687	To Pond 5 (Private)
A-6	22899	0.53	0.0%	0.0%	0.0%	100.0%	4.37	2.30	1.97	3759	5362	6812	To Pond 5 (Private)
A-7	22898	0.53	0.0%	0.0%	0.0%	100.0%	4.37	2.30	1.97	3759	5362	6812	To Pond 5 (Private)
A-8	22896	0.53	0.0%	0.0%	0.0%	100.0%	4.37	2.30	1.97	3759	5361	6812	To Pond 5 (Private)
A-9	20854	0.48	0.0%	0 0%	0.0%	100.0%	4.37	2.09	1.97	3424	4883	6204	To Pond 5 (Private)
A-10	62390	1.43	0.0%	0.0%	10.0%	90.0%	4 22	6.04	1.87	9733	13663	18052	To Pond 5 (Private)
A-11	129032	2.96	0.0%	0.0%	25.0%	75 0%	4.00	11.83	1.73	18548	25323	35753	To Pond 5 (Private)
A-12	67194	1.54	0.0%	0.0%	90.0%	10.0%	3.02	4.66	1.09	6092	6563	15051	To Pond 5 (Private)
A-13	30790	0.71	0.0%	0.0%	25.0%	75.0%	4.00	2.82	1.73	4426	6043	8531	To Pond 5 (Private)
A-14	18000	0.41	0.0%	0.0%	100.0%	0.0%	2.87	1.19	0.99	1485	1485	3885	To Pond 5 (Private)
A-15	195109	4.48	0.0%	0.0%	30.0%	70.0%	3.92	17 56	1.68	27250	36811	53265	To Pond 5 (Private)
A-16	49958	1.15	0.0%	0.0%	100.0%	0.0%	2 87	3.29	0.99	4122	4122	10783	To Los Volcanes and Pond 4 (Public)
A-17	8538	0.20	0.0%	0.0%	100.0%	0.0%	2.87	0.56	0.99	704	704	1843	To Los Volcanes and Pond 4 (Public)
P-5	66622	1.53	0.0%	0.0%	100.0%	0.0%	2.87	4.39	0.99	5496	5496	14379	To Pond 5 (Private)
LV-1	29565	0.68	0.0%	0.0%	10.0%	90.0%	4.22	2.86	1.87	4612	6475	8554	To Pond 4 (Public)
LV-2	31842	0.73	0.0%	0.0%	10.0%	90.0%	4.22	3.08	1.87	4967	6973	9213	To Pond 4 (Public)
LV-3	13271	0.30	0.0%	0.0%	10.0%	90.0%	4.22	1.29	1.87	2070	2906	3840	To Pond 4 (Public)
LV-4	7680	0.18	0.0%	0.0%	10 0%	90.0%	4.22	0.74	1.87	1198	1682	2222	To Pond 4 (Public)
LV-5	13253	0.30	0.0%	0.0%	10.0%	90.0%	4.22	1.28	1.87	2067	2902	3835	To Pond 4 (Public)
TOTAL	2857874	65.61						267.25		423028	583530	804078	

FEDEX GROUND ABQ

STORM DRAIN PIPES

Pipe #	Size in.	Slope %	Capacity cfs	Actual Flow cfs	Pipe Length ft		Contributing Basins	Comments
1	18	1.07	11.71	*1.28*	140.00	✓	A-1	
2	18	1.10	11.88	*11.64*	85.00	✓	A-2	
3	24	0.60	18.84	*12.92*	260.00	✓	A-1, A-2	
4	18	4.25	10.75	*8.63*	102.00	✓	A-4	
5	12	1.00	3.57	*3.52*	101.00	✓	A-3	
6	30	0.70	34.41	*25.07*	70.00	✓	A-1, A-2, A-3, A-4	
7	30	0.70	34.41	*30.90*	80.00		29.69+? A-1, A-2, A-3, A-4, A-5, Part A-10	
8	30	0.70	34.41	*34.41*	80.00		31.99+? A-1, A-2, A-3, A-4, A-5, Part A-10, A-6	
9	36	0.60	55.48	*37.92*	80.00		A-1, A-2, A-3, A-4, A-5, Part A-10, A-6, A-7	
10	36	0.60	55.48	*41.43*	80.00		A-1, A-2, A-3, A-4, A-5, Part A-10, A-6, A-7, A-8	
11	36	0.60	55.48	*44.73*	25.00		A-1, A-2, A-3, A-4, A-5, Part A-10, A-6, A-7, A-8, A-9	
12	36	1.60	84.59	*44.73*	130.00	✓	A-1, A-2, A-3, A-4, A-5, Part A-10, A-6, A-7, A-8, A-9	
13	18	2.65	18.26	*16.49*	110.00	✓	A-11, A-12	
14	36	10.73	234.60	*61.22*	115.00	✓	A-1, A-2, A-3, A-4, A-5, A-10, A-6, A-7, A-8, A-9, A-11, A-12	
15	24	0.60	18.84	*17.56*	40.00	✓	A-15	
16	24	0.60	18.84	*17.56*	330.00	✓	A-15	
17	24	7.34	65.88	*17.56*	155.00	✓	A-15	
18	30	2.12	59.88	*28.34*	40.00	✓	C-2D.1, C-1D2, C-4D	Interim Conditions
19	30	4.50	87.24	*85.72*	400.00	✓	C-1D1, C-2D.1, C-1D2, C-2D2	Ultimate Conditions
20	36	1.70	87.20	*85.72*	400.00	✓	C-1D1, C-2D.1, C-1D2, C-2D2	Ultimate Conditions
21	18	17.73	43.47	*3.85*	15.00	✓	A-16, A-17 3.27+ 0.56	
22	18	23.00	59.43	*7.99*	5.00	✓	½LV = LVS+ LV1 A-16, A-17, 1/2 LV 3.85+[1.28+ 2.86]	
23	42	1.00	100.88	*93.71*	179.00	✓	C-1D1, C-2D.1, C-1D2, C-2D2, A-16, A-17, LV-5, LV-1	Ultimate Conditions
24	36	1.06	68.86	*48.16*	144.00	✓	C-3D	14.72 CFS IN INTERIM
25	24	6.00	55.56	*48.16*	52.00	✓	C-3D	ULTIMATE

Pipe capacities are based on gravity flow using manning's equation with n=0.013

85.72 CFS TO EXTENDED PIPE IN LOS VOLANES IN ULTIMATE. PIPE 19 WILL HOLD IT.

72.03 CFS IN ULTIMATE. RD. CAN CARRY 3.17 CFS

VOLUME CALCULATIONS

Pond 5 - Proposed Conditions

ACTUAL ELEV.	DEPTH (FT)	VOLUME (AC-FT)	Q (CFS)
59.00	0	0	0.000
60.00	1.00	0.2646	2.745
65.00	6.00	2.1906	8.002
70.00	11.00	5.2846	10.979
70.50	11.50	5.6666	11.233

Emergency Overflow

<u>Orifice Equation</u>

Q = CA SQRT(2gH)

C = 0.6

Diameter (in) 8 Two Each

Area (ft^2)= 0.34906585

g = 32.2

H (Ft) = Depth of water above center of orifice

Q (CFS)= Flow

FROM ATTYMO Q_{IN} = 89.04

Q_P = 8.20 CFS @ 65.33

FedEx Ground, Albuquerque

Pond #5
Detention Pond Volume Calculation

Elev	Area	Elev	Avg			
		Change	Area	Volume	Cumulative Volume	
	SF	FT	SF	CU.FT.	CU.FT.	ACRE-FT
5159	10648					
5160	12400	1	11524	11524	11524	0.264555
5165	21160	5	16780	83900	95424	2.190634
5170	32750	5	26955	134775	230199	5.284642
5170.5	33800	0.5	33275	16637.5	246836.5	5.666586

TIERRA WEST, LLC

Project FedEx Ground ALB Date

Project No. INLET CAPACITY

Meeting Purpose Sheet No 1 of 1

Attendees

SUMP INLET #2 CAPACITY ANALYSIS

GRATE OPENING (AREA) (PER COA STD DWG #2220, SINGLE GRATE)

GROSS AREA PER GRATE = (25 in/12)(40 in/12) = 6.94 sf

LESS BEARING BARS = (0.5 in/12)(3.33 ft)(13) = 1.80 sf

LESS CROSS BARS = (0.5 in/12)(7)(25 in/12) - 13(0.5 in/12) = 0.45 sf

NET GRATE OPEN AREA = 4.69 sf

GRATE AREA OPENING @ 50% CLOGGING FACTOR = 2.35 sf

USE GRATE AREA OPENING FOR DOUBLE "C" INLET = 4.70 sf

ORIFICE EQUATION:

$$Q = CA(2gh)^{1/2}$$

$C = 0.67$

$g = 32.2$ ft/sec^2

$A = 2.35$ ft^2 (2 GRATES) $= 4.70$ ft^2

h = height of WATER above GRATE

where $h = 6''$ (height of CURB) $\Rightarrow Q = 0.67(4.70)[(2)32.2(.5)]^{1/2}$

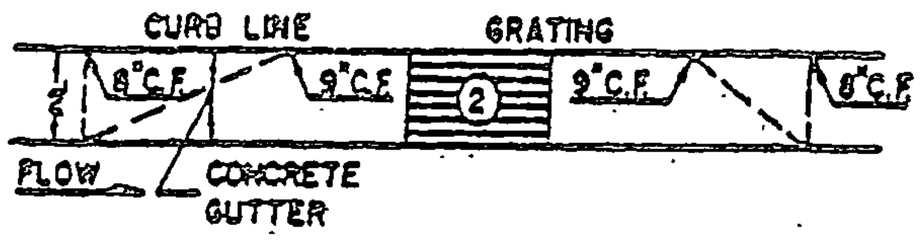
$Q = 17.87$ cfs

BASIN A-2

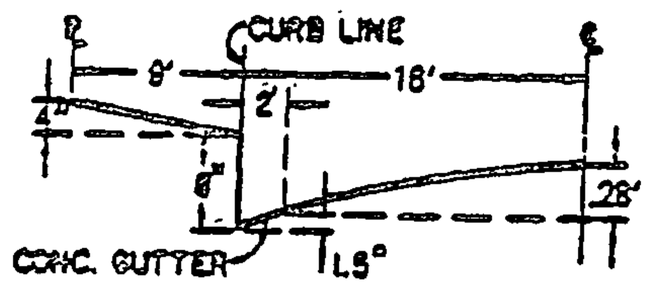
AREA = 2.91 AC

$Q_{MAX} = 11.64$ cfs $\leq Q_{CAPACITY} = 17.87$ cfs OK

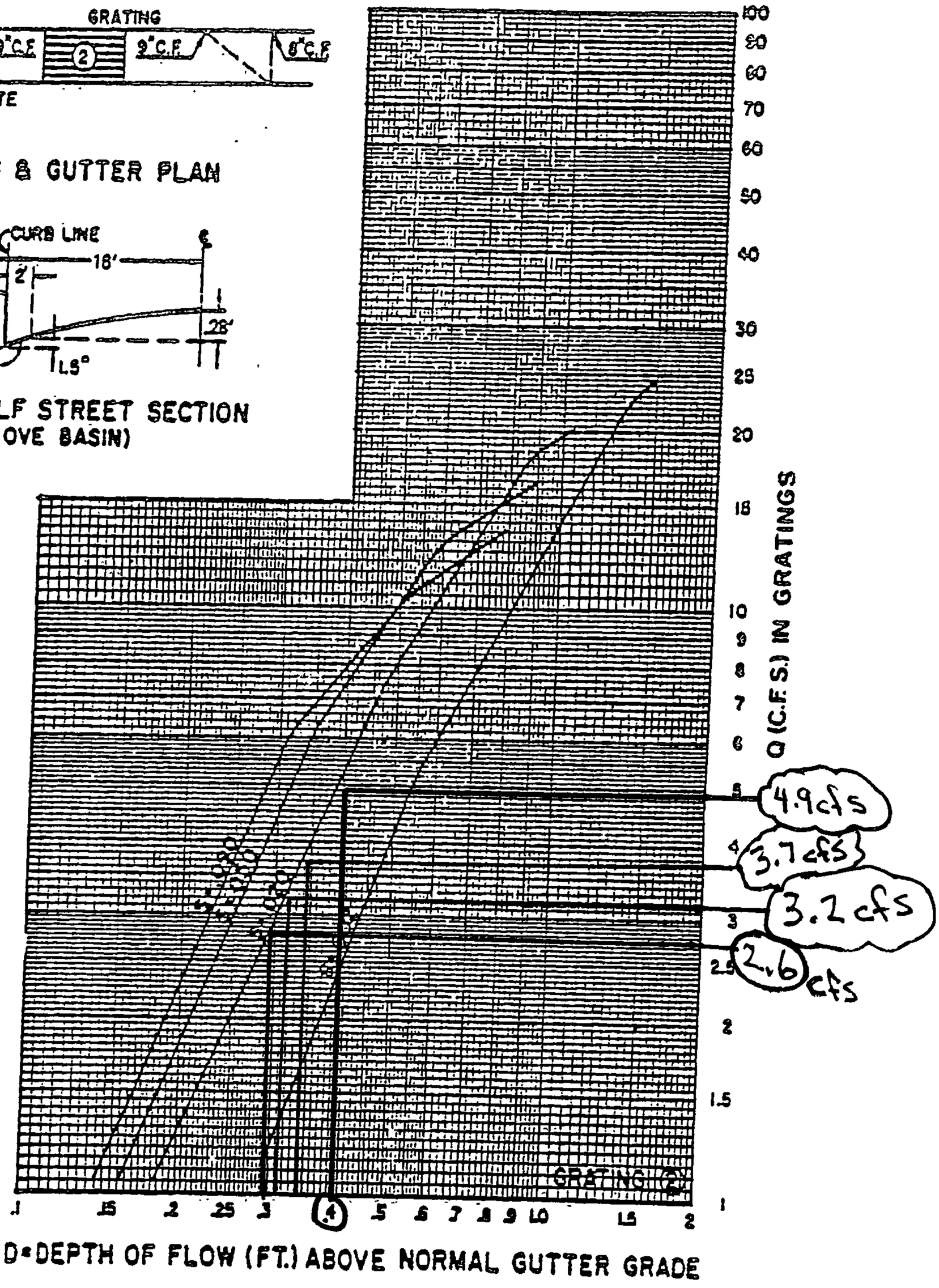
GRATING CAPACITIES FOR TYPE 'A', 'C' and 'D'



GRATING & GUTTER PLAN



TYPICAL HALF STREET SECTION
(ABOVE BASIN)



FEDEX GROUND ABQ
Los VOLCANES Rd.
SLOPE = 1.47%

PLATE 22.3 D-5

LOS VOLCANES STREET CAPACITY

Worksheet for Irregular Section - Full Width

Project Description

Friction Method	Manning Formula
Solve For	Discharge

Input Data

Channel Slope	0 01470	ft/ft
Normal Depth	0 57	ft

Section Definitions

Station (ft)	Elevation (ft)
0+00	100.67
0+00	100.00
0+02	100.13
0+20	100.48
0+38	100.13
0+40	100.00
0+40	100 67

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 100 67)	(0+40, 100.67)	0.016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Discharge	56 63	ft³/s
Elevation Range	100 00 to 100 67 ft	
Flow Area	11 66	ft²
Wetted Perimeter	41 15	ft
Hydraulic Radius	0.28	ft
Top Width	40.00	ft

← ½ SECTION $Q_{CAP.}$ = 28.31 cfs

≥ $Q_{MAX.}$ = 8.70 cfs

Worksheet for Irregular Section - Full Width

Results

Normal Depth	0 57	ft
Critical Depth	0 67	ft
Critical Slope	0 00531	ft/ft
Velocity	4.86	ft/s
Velocity Head	0.37	ft
Specific Energy	0.94	ft
Froude Number	1 59	
Flow Type	Supercritical	

GVF Input Data

Downstream Depth	0 00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0 00	ft
Profile Description		
Profile Headloss	0 00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0.57	ft
Critical Depth	0 67	ft
Channel Slope	0.01470	ft/ft
Critical Slope	0.00531	ft/ft

LOS VOLCANES STREET CAPACITY

Worksheet for Irregular Section - Full Width

Project Description

Friction Method	Manning Formula
Solve For	Discharge

Input Data

Channel Slope	0 05190	ft/ft ←
Normal Depth	0.47	ft

Section Definitions

Station (ft)	Elevation (ft)
0+00	100 67
0+00	100 00
0+02	100.13
0+20	100.48
0+38	100 13
0+40	100.00
0+40	100 67

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 100 67)	(0+40, 100 67)	0 016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Discharge		53 96	ft³/s ← ½ SECTION Q_{CAP} = 26.98 cfs
Elevation Range	100 00 to 100.67 ft		
Flow Area		7.67	ft² ≥ Q_{MAX} = 8.10 cfs
Wetted Perimeter		39.94	ft
Hydraulic Radius		0 19	ft
Top Width		38.99	ft

Worksheet for Irregular Section - Full Width

Results

Normal Depth	0 47	ft
Critical Depth	0.66	ft
Critical Slope	0 00536	ft/ft
Velocity	7.04	ft/s
Velocity Head	0.77	ft
Specific Energy	1 24	ft
Froude Number	2 80	
Flow Type	Supercritical	

GVF Input Data

Downstream Depth	0 00	ft
Length	0 00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0 00	ft
Profile Description		
Profile Headloss	0 00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0.47	ft
Critical Depth	0 66	ft
Channel Slope	0 05190	ft/ft
Critical Slope	0 00536	ft/ft

LOS VOLCANES STREET CAPACITY

Worksheet for Irregular Section - Full Width

Project Description

Friction Method	Manning Formula
Solve For	Discharge

Input Data

Channel Slope	0 02440	ft/ft
Normal Depth	0 52	ft

Section Definitions

Station (ft)	Elevation (ft)
0+00	100 67
0+00	100 00
0+02	100 13
0+20	100 48
0+38	100.13
0+40	100.00
0+40	100.67

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 100 67)	(0+40, 100 67)	0 016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Discharge	53.41	ft³/s
Elevation Range	100 00 to 100.67 ft	
Flow Area	9 66	ft²
Wetted Perimeter	41 05	ft
Hydraulic Radius	0.24	ft
Top Width	40 00	ft

$\frac{1}{2}$ SECTION $Q_{CAP} = 26.70$ cfs

$\geq Q_{MAX} = 8.70$ cfs

Worksheet for Irregular Section - Full Width

Results

Normal Depth	0.52	ft
Critical Depth	0 66	ft
Critical Slope	0.00537	ft/ft
Velocity	5 53	ft/s
Velocity Head	0.48	ft
Specific Energy	1 00	ft
Froude Number	1.98	
Flow Type	Supercritical	

GVF Input Data

Downstream Depth	0 00	ft
Length	0 00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0 00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0 52	ft
Critical Depth	0 66	ft
Channel Slope	0.02440	ft/ft
Critical Slope	0 00537	ft/ft

DAYTONA STREET CAPACITY

Worksheet for Irregular Section - Full Width

Project Description

Friction Method	Manning Formula
Solve For	Discharge

Input Data

Channel Slope	0.04050	ft/ft
Normal Depth	0 49	ft

Section Definitions

Station (ft)	Elevation (ft)
0+00	100 67
0+00	100.00
0+02	100.13
0+20	100 48
0+38	100 13
0+40	100.00
0+40	100 67

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 100 67)	(0+40, 100 67)	0.016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Discharge	55 22	ft³/s
Elevation Range	100 00 to 100 67 ft	
Flow Area	8 46	ft²
Wetted Perimeter	40.99	ft
Hydraulic Radius	0.21	ft
Top Width	40 00	ft

½ SECTION Q_{CAP} = 27.61cfs
≥ Q_{MAX} = 2.87cfs

Worksheet for Irregular Section - Full Width

Results

Normal Depth	0.49	ft
Critical Depth	0 67	ft
Critical Slope	0.00534	ft/ft
Velocity	6 53	ft/s
Velocity Head	0 66	ft
Specific Energy	1 15	ft
Froude Number	2 50	
Flow Type	Supercritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0 00	ft
Profile Description		
Profile Headloss	0 00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0.49	ft
Critical Depth	0.67	ft
Channel Slope	0.04050	ft/ft
Critical Slope	0.00534	ft/ft

LOS VOLCANES @ DI #14

Worksheet for Irregular Section - Half Width

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.01470	ft/ft
Discharge	8.70	ft³/s ← BASINS: C-1D1, C-2D.2 & LV-5 UNDEV. LV-1 DEVELOPED

Section Definitions

Station (ft)	Elevation (ft)
0+00	100 67
0+00	100 00
0+02	100.13
0+20	100 48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 100 67)	(0+20, 100.48)	0.016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth		0 40	ft ←
Elevation Range	100 00 to 100.67 ft		
Flow Area		2 63	ft²
Wetted Perimeter		16 46	ft
Hydraulic Radius		0.16	ft
Top Width		16.05	ft
Normal Depth		0 40	ft
Critical Depth		0.45	ft ←
Critical Slope		0 00672	ft/ft

Worksheet for Irregular Section - Half Width

Results

Velocity	3 31	ft/s
Velocity Head	0.17	ft
Specific Energy	0 57	ft
Froude Number	1 44	
Flow Type	Supercritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0 00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0.40	ft
Critical Depth	0.45	ft
Channel Slope	0.01470	ft/ft
Critical Slope	0 00672	ft/ft

Cross Section for Irregular Section - Half Width

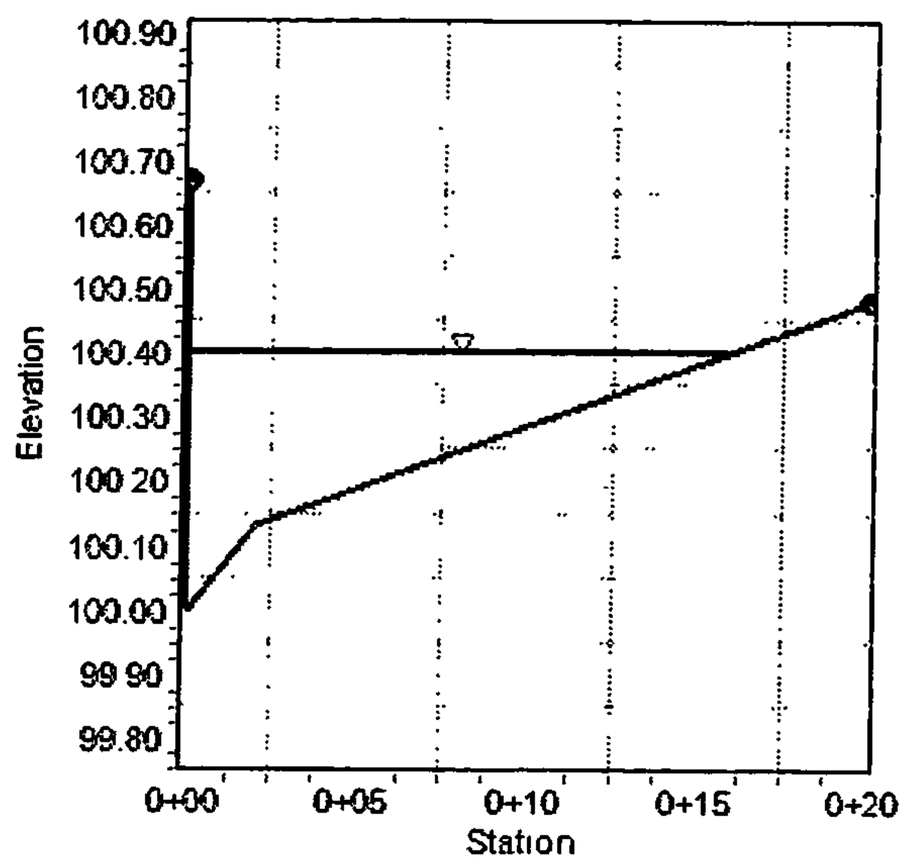
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0 01470	ft/ft
Normal Depth	0 40	ft
Discharge	8 70	ft³/s

Cross Section Image



LOS VOLCANES @ DI #11

Worksheet for Irregular Section - Half Width

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.01470	ft/ft
Discharge	3 67	ft³/s ← BASINS: C-1D1, C-2D.2 & LV-5 UNDER LV-1 DEVELOPED LESS FLOW TO INLET #14

Section Definitions

Station (ft)	Elevation (ft)
0+00	100.67
0+00	100.00
0+02	100.13
0+20	100 48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 100.67)	(0+20, 100 48)	0.016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth		0 31	ft ←
Elevation Range	100.00 to 100 67 ft		
Flow Area		1.37	ft²
Wetted Perimeter		11 71	ft
Hydraulic Radius		0.12	ft
Top Width		11 39	ft
Normal Depth		0 31	ft
Critical Depth		0.34	ft ←
Critical Slope		0 00753	ft/ft

Worksheet for Irregular Section - Half Width

Results

Velocity	2.69	ft/s
Velocity Head	0.11	ft
Specific Energy	0.42	ft
Froude Number	1.37	
Flow Type	Supercritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0 00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0 00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0 31	ft
Critical Depth	0.34	ft
Channel Slope	0 01470	ft/ft
Critical Slope	0.00753	ft/ft

DAYTONA @ DI #13

Worksheet for Irregular Section - Half Width

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.01570	ft/ft
Discharge	2.87	ft³/s ← D-1B Developed

Section Definitions

Station (ft)	Elevation (ft)
0+00	100 67
0+00	100 00
0+02	100.13
0+20	100.48

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00, 100.67)	(0+20, 100 48)	0.016

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

Results

Normal Depth	0 29	ft ←
Elevation Range	100 00 to 100 67 ft	
Flow Area	1.10	ft²
Wetted Perimeter	10 45	ft
Hydraulic Radius	0.11	ft
Top Width	10 16	ft
Normal Depth	0 29	ft
Critical Depth	0 32	ft ←
Critical Slope	0.00778	ft/ft

Worksheet for Irregular Section - Half Width

Results

Velocity		2 60	ft/s
Velocity Head		0 11	ft
Specific Energy		0 39	ft
Froude Number		1.39	
Flow Type	Supercritical		

GVF Input Data

Downstream Depth	0 00	ft
Length	0 00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0 29	ft
Critical Depth	0 32	ft
Channel Slope	0 01570	ft/ft
Critical Slope	0.00778	ft/ft

```
*****************************************************************
*          FEDEX GROUND ALBUQUERQUE, NM                         *
*****************************************************************
* 100-YEAR, 24-HR STORM  (UNDER PROPOSED CONDITIONS) W/ routing *
*****************************************************************
*
START                   TIME=0.0
*
*
RAINFALL                TYPE=2 RAIN QUARTER=0.0 IN
                        RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                        RAIN DAY=2.66 IN DT=0.05 HR
*DEVELOPED CONDITIONS
*
*BASIN A1
*
COMPUTE NM HYD          ID=1 HYD NO=100.1 AREA=0.00070 SQ MI
                        PER A=0.00 PER B=0.00 PER C=100.0 PER D=0.00
                        TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD               ID=1 CODE=1
*
*BASIN A2
*
COMPUTE NM HYD          ID=2 HYD NO=100.2 AREA=0.00363 SQ MI
                        PER A=0.00 PER B=0.00 PER C=25.0 PER D=75.00
                        TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD               ID=2 CODE=1
*
*BASIN A3
*
COMPUTE NM HYD          ID=3 HYD NO=100.3 AREA=0.00126 SQ MI
                        PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                        TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD               ID=3 CODE=1
*
*
*BASIN A4
*
COMPUTE NM HYD          ID=4 HYD NO=100.4 AREA=0.00389 SQ MI
                        PER A=0.00 PER B=0.00 PER C=25.0 PER D=75.00
                        TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD               ID=4 CODE=1
*
*BASIN A5
*
COMPUTE NM HYD          ID=5 HYD NO=100.5 AREA=0.00165 SQ MI
                        PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                        TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD               ID=5 CODE=1
*
*BASIN A6
*
COMPUTE NM HYD          ID=6 HYD NO=100.6 AREA=0.00082 SQ MI
                        PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                        TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD               ID=6 CODE=1
*
*
*BASIN A7
*
COMPUTE NM HYD          ID=7 HYD NO=100.7 AREA=0.00082 SQ MI
                        PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                        TP=-0.1333 HR MASS RAINFALL=-1
```

```
PRINT HYD            ID=7 CODE=1
*
*BASIN A8
*
COMPUTE NM HYD       ID=8 HYD NO=100.8 AREA=0.00082 SQ MI
                     PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                     TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=8 CODE=1
*
*BASIN A9
*
COMPUTE NM HYD       ID=9 HYD NO=100.9 AREA=0.00075 SQ MI
                     PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                     TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=9 CODE=1
*
*
*BASIN A10
*
COMPUTE NM HYD       ID=10 HYD NO=100.10 AREA=0.00224 SQ MI
                     PER A=0.00 PER B=0.00 PER C=10.0 PER D=90.00
                     TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=10 CODE=1
*
*BASIN A11
*
COMPUTE NM HYD       ID=11 HYD NO=100.11 AREA=0.00433 SQ MI
                     PER A=0.00 PER B=0.00 PER C=25.0 PER D=75.00
                     TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=11 CODE=1
*
*BASIN A12
*
COMPUTE NM HYD       ID=12 HYD NO=100.12 AREA=0.00241 SQ MI
                     PER A=0.00 PER B=0.00 PER C=90.0 PER D=10.00
                     TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=12 CODE=1
*
*
*BASIN A13
*
COMPUTE NM HYD       ID=13 HYD NO=100.13 AREA=0.00110 SQ MI
                     PER A=0.00 PER B=0.00 PER C=25.0 PER D=75.00
                     TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=13 CODE=1
*
*BASIN A14
*
COMPUTE NM HYD       ID=14 HYD NO=100.14 AREA=0.00065 SQ MI
                     PER A=0.00 PER B=0.00 PER C=100.0 PER D=0.00
                     TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=14 CODE=1
*
*BASIN A15
*
COMPUTE NM HYD       ID=15 HYD NO=100.15 AREA=0.00700 SQ MI
                     PER A=0.00 PER B=0.00 PER C=30.0 PER D=70.00
                     TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD            ID=15 CODE=1
*
*
*BASIN P5
*
```

```
COMPUTE NM HYD          ID=16 HYD NO=100.16 AREA=0.00239 SQ MI
                        PER A=0.00 PER B=0.00 PER C=100.0 PER D=0.00
                        TP=-0.1333 HR MASS RAINFALL=-1
PRINT HYD               ID=16 CODE=1
*
*
ADD HYD                 ID=50 HYD NO=100.5 ID=1 ID=2
ADD HYD                 ID=50 HYD NO=100.6 ID=50 ID=3
ADD HYD                 ID=50 HYD NO=100.8 ID=50 ID=4
ADD HYD                 ID=50 HYD NO=100.9 ID=50 ID=5
ADD HYD                 ID=50 HYD NO=100.10 ID=50 ID=6
ADD HYD                 ID=50 HYD NO=100.11 ID=50 ID=7
ADD HYD                 ID=50 HYD NO=100.12 ID=50 ID=8
ADD HYD                 ID=50 HYD NO=100.13 ID=50 ID=9
ADD HYD                 ID=50 HYD NO=100.14 ID=50 ID=10
ADD HYD                 ID=50 HYD NO=100.15 ID=50 ID=11
ADD HYD                 ID=50 HYD NO=100.16 ID=50 ID=12
ADD HYD                 ID=50 HYD NO=100.17 ID=50 ID=13
ADD HYD                 ID=50 HYD NO=100.18 ID=50 ID=14
ADD HYD                 ID=50 HYD NO=100.19 ID=50 ID=15
ADD HYD                 ID=50 HYD NO=100.20 ID=50 ID=16
*
PRINT HYD               ID=50 CODE=1
*
*
*ROUTE THROUGH DETENTION POND NO 1
ROUTE RESERVOIR         ID=55 HYD NO=200.1 INFLOW ID=50 CODE=24
                        OUTFLOW (CFS) STORAGE(AC-FT) ELEVATION(FT)
                        0.0           0.0            59.00
                        2.745         0.2646         60.00
                        8.002         2.1906         65.00
                        10.979        5.2846         70.00
                        11.233        5.6666         70.50
*
PRINT HYD               ID=55  CODE=1
*
*
FINISH
```

```
AHYMO PROGRAM (AHYMO-S4)                          - Version: S4.01a - Rel: 01a
     RUN DATE (MON/DAY/YR) = 06/25/2014
     START TIME (HR:MIN:SEC) = 15:34:11      USER NO.=
AHYMO_Temp_User:20122010
     INPUT FILE = C:\Users\vince.TWLLC\Desktop\hymo .txt

**********************************************************************
*            FEDEX GROUND ALBUQUERQUE, NM                            *
**********************************************************************
* 100-YEAR, 24-HR STORM  (UNDER PROPOSED CONDITIONS) W/ routing *
**********************************************************************
*
START                    TIME=0.0
*
*
RAINFALL                 TYPE=2 RAIN QUARTER=0.0 IN
                         RAIN ONE=1.87 IN RAIN SIX=2.20 IN
                         RAIN DAY=2.66 IN DT=0.05 HR

                24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR CONVECTIVE
AREAS (NM & AZ) - D1
                DT =   0.050000 HOURS        END TIME =    24.000002 HOURS
                  0.0000  0.0022  0.0045  0.0069  0.0096  0.0123  0.0154
                  0.0197  0.0264  0.0336  0.0412  0.0494  0.0578  0.0664
                  0.0753  0.0844  0.0946  0.1052  0.1168  0.1387  0.1657
                  0.2020  0.2430  0.2937  0.3614  0.4375  0.5689  0.7733
                  1.1234  1.3695  1.5635  1.6610  1.7465  1.8079  1.8568
                  1.8994  1.9306  1.9592  1.9828  1.9979  2.0087  2.0183
                  2.0273  2.0352  2.0426  2.0499  2.0568  2.0625  2.0659
                  2.0692  2.0724  2.0754  2.0784  2.0813  2.0842  2.0870
                  2.0896  2.0923  2.0949  2.0974  2.0999  2.1023  2.1046
                  2.1069  2.1092  2.1115  2.1136  2.1158  2.1179  2.1199
                  2.1220  2.1240  2.1260  2.1280  2.1299  2.1318  2.1337
                  2.1356  2.1374  2.1392  2.1411  2.1428  2.1446  2.1463
                  2.1481  2.1498  2.1514  2.1531  2.1548  2.1564  2.1580
                  2.1596  2.1612  2.1628  2.1643  2.1658  2.1674  2.1689
                  2.1704  2.1718  2.1733  2.1747  2.1762  2.1776  2.1790
                  2.1804  2.1818  2.1832  2.1845  2.1859  2.1872  2.1885
                  2.1899  2.1912  2.1925  2.1937  2.1950  2.1963  2.1975
                  2.1988  2.2000  2.2013  2.2026  2.2038  2.2051  2.2064
                  2.2077  2.2089  2.2102  2.2115  2.2128  2.2141  2.2153
                  2.2166  2.2179  2.2192  2.2204  2.2217  2.2230  2.2243
                  2.2256  2.2268  2.2281  2.2294  2.2307  2.2319  2.2332
                  2.2345  2.2358  2.2371  2.2383  2.2396  2.2409  2.2422
                  2.2434  2.2447  2.2460  2.2473  2.2486  2.2498  2.2511
                  2.2524  2.2537  2.2549  2.2562  2.2575  2.2588  2.2601
                  2.2613  2.2626  2.2639  2.2652  2.2664  2.2677  2.2690
                  2.2703  2.2716  2.2728  2.2741  2.2754  2.2767  2.2779
                  2.2792  2.2805  2.2818  2.2831  2.2843  2.2856  2.2869
                  2.2882  2.2894  2.2907  2.2920  2.2933  2.2946  2.2958
                  2.2971  2.2984  2.2997  2.3009  2.3022  2.3035  2.3048
                  2.3061  2.3073  2.3086  2.3099  2.3112  2.3124  2.3137
                  2.3150  2.3163  2.3176  2.3188  2.3201  2.3214  2.3227
                  2.3239  2.3252  2.3265  2.3278  2.3291  2.3303  2.3316
                  2.3329  2.3342  2.3354  2.3367  2.3380  2.3393  2.3406
                  2.3418  2.3431  2.3444  2.3457  2.3469  2.3482  2.3495
                  2.3508  2.3521  2.3533  2.3546  2.3559  2.3572  2.3584
                  2.3597  2.3610  2.3623  2.3636  2.3648  2.3661  2.3674
                  2.3687  2.3699  2.3712  2.3725  2.3738  2.3750  2.3763
                  2.3776  2.3789  2.3802  2.3814  2.3827  2.3840  2.3853
                  2.3865  2.3878  2.3891  2.3904  2.3917  2.3929  2.3942
```

2.3955	2.3968	2.3980	2.3993	2.4006	2.4019	2.4032
2.4044	2.4057	2.4070	2.4083	2.4095	2.4108	2.4121
2.4134	2.4147	2.4159	2.4172	2.4185	2.4198	2.4210
2.4223	2.4236	2.4249	2.4262	2.4274	2.4287	2.4300
2.4313	2.4325	2.4338	2.4351	2.4364	2.4377	2.4389
2.4402	2.4415	2.4428	2.4440	2.4453	2.4466	2.4479
2.4492	2.4504	2.4517	2.4530	2.4543	2.4555	2.4568
2.4581	2.4594	2.4607	2.4619	2.4632	2.4645	2.4658
2.4670	2.4683	2.4696	2.4709	2.4722	2.4734	2.4747
2.4760	2.4773	2.4785	2.4798	2.4811	2.4824	2.4837
2.4849	2.4862	2.4875	2.4888	2.4900	2.4913	2.4926
2.4939	2.4952	2.4964	2.4977	2.4990	2.5003	2.5015
2.5028	2.5041	2.5054	2.5067	2.5079	2.5092	2.5105
2.5118	2.5130	2.5143	2.5156	2.5169	2.5182	2.5194
2.5207	2.5220	2.5233	2.5245	2.5258	2.5271	2.5284
2.5297	2.5309	2.5322	2.5335	2.5348	2.5360	2.5373
2.5386	2.5399	2.5412	2.5424	2.5437	2.5450	2.5463
2.5475	2.5488	2.5501	2.5514	2.5527	2.5539	2.5552
2.5565	2.5578	2.5590	2.5603	2.5616	2.5629	2.5642
2.5654	2.5667	2.5680	2.5693	2.5705	2.5718	2.5731
2.5744	2.5757	2.5769	2.5782	2.5795	2.5808	2.5820
2.5833	2.5846	2.5859	2.5872	2.5884	2.5897	2.5910
2.5923	2.5935	2.5948	2.5961	2.5974	2.5987	2.5999
2.6012	2.6025	2.6038	2.6050	2.6063	2.6076	2.6089
2.6102	2.6114	2.6127	2.6140	2.6153	2.6165	2.6178
2.6191	2.6204	2.6217	2.6229	2.6242	2.6255	2.6268
2.6280	2.6293	2.6306	2.6319	2.6332	2.6344	2.6357
2.6370	2.6383	2.6395	2.6408	2.6421	2.6434	2.6447
2.6459	2.6472	2.6485	2.6498	2.6510	2.6523	2.6536
2.6549	2.6562	2.6574	2.6587	2.6600		

```
*DEVELOPED CONDITIONS
*
*BASIN A1
*
COMPUTE NM HYD       ID=1 HYD NO=100.1 AREA=0.00070 SQ MI
                     PER A=0.00 PER B=0.00 PER C=100.0 PER D=0.00
                     TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.105867HR    TP =  0.133300HR    K/TP RATIO =  0.794199    SHAPE
CONSTANT, N =  4.514592
        UNIT PEAK =   2.0382    CFS   UNIT VOLUME =   0.9961       B =   388.14
 P60 = 1.8700
        AREA =     0.000700 SQ MI    IA =   0.35000 INCHES    INF =   0.83000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

    PRINT HYD            ID=1 CODE=1

                                          PARTIAL HYDROGRAPH   100.10

        RUNOFF VOLUME =     1.08591 INCHES     =       0.0405 ACRE-FEET
        PEAK DISCHARGE RATE =       1.41 CFS  AT   1.500 HOURS   BASIN AREA =
0.0007 SQ. MI.


    *
    *BASIN A2
    *
    COMPUTE NM HYD       ID=2 HYD NO=100.2 AREA=0.00363 SQ MI
```

```
                    PER A=0.00 PER B=0.00 PER C=25.0 PER D=75.00
                    TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000    SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =   10.749    CFS   UNIT VOLUME =   0.9981       B =   526.28
 P60 = 1.8700
        AREA =     0.002723 SQ MI    IA =   0.10000 INCHES    INF =   0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

        K =  0.105867HR    TP =  0.133300HR    K/TP RATIO =  0.794199    SHAPE
CONSTANT, N =  4.514593
        UNIT PEAK =   2.6424    CFS   UNIT VOLUME =   0.9970       B =   388.14
 P60 = 1.8700
        AREA =     0.000908 SQ MI    IA =   0.35000 INCHES    INF =   0.83000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

    PRINT HYD           ID=2 CODE=1

                                        PARTIAL HYDROGRAPH   100.20

        RUNOFF VOLUME =     2.08322 INCHES     =       0.4033 ACRE-FEET
        PEAK DISCHARGE RATE =      - 9.63 CFS  AT   1.500 HOURS   BASIN AREA =
0.0036 SQ. MI.


    *
    *BASIN A3
    *
    COMPUTE NM HYD      ID=3 HYD NO=100.3 AREA=0.00126 SQ MI
                        PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                        TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000    SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =   4.9745    CFS   UNIT VOLUME =   0.9971       B =   526.28
 P60 = 1.8700
        AREA =     0.001260 SQ MI    IA =   0.10000 INCHES    INF =   0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

    PRINT HYD           ID=3 CODE=1

                                        PARTIAL HYDROGRAPH   100.30

        RUNOFF VOLUME =     2.41566 INCHES     =       0.1623 ACRE-FEET
        PEAK DISCHARGE RATE =      3.61 CFS  AT   1.500 HOURS   BASIN AREA =
0.0013 SQ. MI.


    *
    *
    *BASIN A4
```

```
*
COMPUTE NM HYD       ID=4 HYD NO=100.4 AREA=0.00389 SQ MI
                     PER A=0.00 PER B=0.00 PER C=25.0 PER D=75.00
                     TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000    SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =   11.518    CFS   UNIT VOLUME =   0.9981       B =   526.28
 P60 = 1.8700
        AREA =     0.002918 SQ MI    IA =   0.10000 INCHES    INF =  ·0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

        K =  0.105867HR    TP =  0.133300HR    K/TP RATIO =  0.794199    SHAPE
CONSTANT, N =  4.514593
        UNIT PEAK =   2.8317    CFS   UNIT VOLUME =   0.9977       B =   388.14
 P60 = 1.8700
        AREA =     0.000973 SQ MI    IA =   0.35000 INCHES    INF =   0.83000
 INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 0.050000

    PRINT HYD            ID=4 CODE=1

                                          PARTIAL HYDROGRAPH   100.40

        RUNOFF VOLUME =     2.08322 INCHES     =       0.4322 ACRE-FEET
        PEAK DISCHARGE RATE =      10.32 CFS  AT   1.500 HOURS   BASIN AREA =
 0.0039 SQ. MI.


    *
    *BASIN A5
    *
    COMPUTE NM HYD       ID=5 HYD NO=100.5 AREA=0.00165 SQ MI
                         PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                         TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000    SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =   6.5143    CFS   UNIT VOLUME =   0.9975       B =   526.28
 P60 = 1.8700
        AREA =     0.001650 SQ MI    IA =   0.10000 INCHES    INF =   0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

    PRINT HYD            ID=5 CODE=1

                                          PARTIAL HYDROGRAPH   100.50

        RUNOFF VOLUME =     2.41566 INCHES     =       0.2126 ACRE-FEET
        PEAK DISCHARGE RATE =       4.73 CFS  AT   1.500 HOURS   BASIN AREA =
0.0017 SQ. MI.


    *
```

```
*BASIN A6
*
COMPUTE NM HYD        ID=6 HYD NO=100.6 AREA=0.00082 SQ MI
                      PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                      TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000    SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =   3.2374    CFS   UNIT VOLUME =   0.9959       B =   526.28
 P60 = 1.8700
        AREA =     0.000820 SQ MI    IA =   0.10000 INCHES    INF =   0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

   PRINT HYD            ID=6 CODE=1

                                        PARTIAL HYDROGRAPH   100.60

        RUNOFF VOLUME =     2.41566 INCHES      =       0.1056 ACRE-FEET
        PEAK DISCHARGE RATE =       2.35 CFS  AT   1.500 HOURS   BASIN AREA =
 0.0008 SQ. MI.


   *
   *
   *BASIN A7
   *
   COMPUTE NM HYD        ID=7 HYD NO=100.7 AREA=0.00082 SQ MI
                         PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                         TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000    SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =   3.2374    CFS   UNIT VOLUME =   0.9959       B =   526.28
 P60 = 1.8700
        AREA =     0.000820 SQ MI    IA =   0.10000 INCHES    INF =   0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

   PRINT HYD            ID=7 CODE=1

                                        PARTIAL HYDROGRAPH   100.70

        RUNOFF VOLUME =     2.41566 INCHES      =       0.1056 ACRE-FEET
        PEAK DISCHARGE RATE =       2.35 CFS  AT   1.500 HOURS   BASIN AREA =
 0.0008 SQ. MI.


   *
   *BASIN A8
   *
   COMPUTE NM HYD        ID=8 HYD NO=100.8 AREA=0.00082 SQ MI
                         PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                         TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000    SHAPE
CONSTANT, N =  7.106428
```

```
        UNIT PEAK =    3.2374     CFS    UNIT VOLUME =    0.9959        B =    526.28
 P60 = 1.8700
        AREA =      0.000820 SQ MI     IA =    0.10000 INCHES     INF =    0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

    PRINT HYD              ID=8 CODE=1

                                          PARTIAL HYDROGRAPH    100.80

        RUNOFF VOLUME =      2.41566 INCHES      =        0.1056 ACRE-FEET
        PEAK DISCHARGE RATE =        2.35 CFS   AT    1.500 HOURS    BASIN AREA =
0.0008 SQ. MI.


    *
    *BASIN A9
    *
    COMPUTE NM HYD         ID=9 HYD NO=100.9 AREA=0.00075 SQ MI
                           PER A=0.00 PER B=0.00 PER C=0.0 PER D=100.00
                           TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR     TP =  0.133300HR     K/TP RATIO =  0.545000      SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =    2.9610     CFS    UNIT VOLUME =    0.9959        B =    526.28
 P60 = 1.8700
        AREA =      0.000750 SQ MI     IA =    0.10000 INCHES     INF =    0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

    PRINT HYD              ID=9 CODE=1

                                          PARTIAL HYDROGRAPH    100.90

        RUNOFF VOLUME =      2.41566 INCHES      =        0.0966 ACRE-FEET
        PEAK DISCHARGE RATE =        2.15 CFS   AT    1.500 HOURS    BASIN AREA =
0.0008 SQ. MI.


    *
    *
    *BASIN A10
    *
    COMPUTE NM HYD         ID=10 HYD NO=100.10 AREA=0.00224 SQ MI
                           PER A=0.00 PER B=0.00 PER C=10.0 PER D=90.00
                           TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR     TP =  0.133300HR     K/TP RATIO =  0.545000      SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =    7.9593     CFS    UNIT VOLUME =    0.9978        B =    526.28
 P60 = 1.8700
        AREA =      0.002016 SQ MI     IA =    0.10000 INCHES     INF =    0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000
```

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199 SHAPE CONSTANT, N = 4.514592
UNIT PEAK = 0.65223 CFS UNIT VOLUME = 0.9821 B = 388.14 P60 = 1.8700
AREA = 0.000224 SQ MI IA = 0.35000 INCHES INF = 0.83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000

PRINT HYD ID=10 CODE=1

PARTIAL HYDROGRAPH 100.10

RUNOFF VOLUME = 2.28268 INCHES = 0.2727 ACRE-FEET
PEAK DISCHARGE RATE = 6.24 CFS AT 1.500 HOURS BASIN AREA = 0.0022 SQ. MI.

*
*BASIN A11
*
COMPUTE NM HYD ID=11 HYD NO=100.11 AREA=0.00433 SQ MI
PER A=0.00 PER B=0.00 PER C=25.0 PER D=75.00
TP=-0.1333 HR MASS RAINFALL=-1

K = 0.072649HR TP = 0.133300HR K/TP RATIO = 0.545000 SHAPE CONSTANT, N = 7.106428
UNIT PEAK = 12.821 CFS UNIT VOLUME = 0.9983 B = 526.28 P60 = 1.8700
AREA = 0.003248 SQ MI IA = 0.10000 INCHES INF = 0.04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000

K = 0.105867HR TP = 0.133300HR K/TP RATIO = 0.794199 SHAPE CONSTANT, N = 4.514593
UNIT PEAK = 3.1520 CFS UNIT VOLUME = 0.9977 B = 388.14 P60 = 1.8700
AREA = 0.001083 SQ MI IA = 0.35000 INCHES INF = 0.83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = 0.050000

PRINT HYD ID=11 CODE=1

PARTIAL HYDROGRAPH 100.11

RUNOFF VOLUME = 2.08322 INCHES = 0.4811 ACRE-FEET
PEAK DISCHARGE RATE = 11.49 CFS AT 1.500 HOURS BASIN AREA = 0.0043 SQ. MI.

*
*BASIN A12
*
COMPUTE NM HYD ID=12 HYD NO=100.12 AREA=0.00241 SQ MI
PER A=0.00 PER B=0.00 PER C=90.0 PER D=10.00
TP=-0.1333 HR MASS RAINFALL=-1

```
        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000     SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =  0.95148    CFS   UNIT VOLUME =   0.9891       B =   526.28
 P60 = 1.8700
        AREA =     0.000241 SQ MI    IA =   0.10000 INCHES    INF =   0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000


        K =  0.105867HR    TP =  0.133300HR    K/TP RATIO =  0.794199     SHAPE
CONSTANT, N =  4.514593
        UNIT PEAK =   6.3156    CFS   UNIT VOLUME =   0.9999       B =   388.14
 P60 = 1.8700
        AREA =     0.002169 SQ MI    IA =   0.35000 INCHES    INF =   0.83000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

    PRINT HYD            ID=12 CODE=1

                                          PARTIAL HYDROGRAPH   100.12


        RUNOFF VOLUME =     1.21889 INCHES     =       0.1567 ACRE-FEET
        PEAK DISCHARGE RATE =       5.06 CFS  AT   1.500 HOURS   BASIN AREA =
0.0024 SQ. MI.


    *
    *
    *BASIN A13
    *
    COMPUTE NM HYD       ID=13 HYD NO=100.13 AREA=0.00110 SQ MI
                         PER A=0.00 PER B=0.00 PER C=25.0 PER D=75.00
                         TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000     SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =   3.2571    CFS   UNIT VOLUME =   0.9959       B =   526.28
 P60 = 1.8700
        AREA =     0.000825 SQ MI    IA =   0.10000 INCHES    INF =   0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000


        K =  0.105867HR    TP =  0.133300HR    K/TP RATIO =  0.794199     SHAPE
CONSTANT, N =  4.514593
        UNIT PEAK =  0.80073    CFS   UNIT VOLUME =   0.9874       B =   388.14
 P60 = 1.8700
        AREA =     0.000275 SQ MI    IA =   0.35000 INCHES    INF =   0.83000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

    PRINT HYD            ID=13 CODE=1

                                          PARTIAL HYDROGRAPH   100.13
```

```
        RUNOFF VOLUME =      2.08322 INCHES      =        0.1222 ACRE-FEET
        PEAK DISCHARGE RATE =        2.93 CFS  AT   1.500 HOURS   BASIN AREA =
0.0011 SQ. MI.


    *
    *BASIN A14
    *
    COMPUTE NM HYD       ID=14 HYD NO=100.14 AREA=0.00065 SQ MI
                         PER A=0.00 PER B=0.00 PER C=100.0 PER D=0.00
                         TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.105867HR    TP =  0.133300HR    K/TP RATIO =  0.794199     SHAPE
CONSTANT, N =  4.514592
        UNIT PEAK =   1.8926    CFS   UNIT VOLUME =   0.9952       B =   388.14
 P60 = 1.8700
        AREA =     0.000650 SQ MI    IA =   0.35000 INCHES    INF =   0.83000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 0.050000

    PRINT HYD            ID=14 CODE=1

                                        PARTIAL HYDROGRAPH   100.14


        RUNOFF VOLUME =      1.08591 INCHES      =        0.0376 ACRE-FEET
        PEAK DISCHARGE RATE =        1.31 CFS  AT   1.500 HOURS   BASIN AREA =
0.0007 SQ. MI.


    *
    *BASIN A15
    *
    COMPUTE NM HYD       ID=15 HYD NO=100.15 AREA=0.00700 SQ MI
                         PER A=0.00 PER B=0.00 PER C=30.0 PER D=70.00
                         TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.072649HR    TP =  0.133300HR    K/TP RATIO =  0.545000     SHAPE
CONSTANT, N =  7.106428
        UNIT PEAK =   19.345    CFS   UNIT VOLUME =   0.9986       B =   526.28
 P60 = 1.8700
        AREA =     0.004900 SQ MI    IA =   0.10000 INCHES    INF =   0.04000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 0.050000


        K =  0.105867HR    TP =  0.133300HR    K/TP RATIO =  0.794199     SHAPE
CONSTANT, N =  4.514592
        UNIT PEAK =   6.1147    CFS   UNIT VOLUME =   0.9999       B =   388.14
 P60 = 1.8700
        AREA =     0.002100 SQ MI    IA =   0.35000 INCHES    INF =   0.83000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
 0.050000

    PRINT HYD            ID=15 CODE=1

                                        PARTIAL HYDROGRAPH   100.15
```

```
        RUNOFF VOLUME =      2.01673 INCHES      =        0.7529 ACRE-FEET
        PEAK DISCHARGE RATE =       18.26 CFS  AT   1.500 HOURS   BASIN AREA =
0.0070 SQ. MI.


    *
    *
    *BASIN P5
    *
    COMPUTE NM HYD        ID=16 HYD NO=100.16 AREA=0.00239 SQ MI
                          PER A=0.00 PER B=0.00 PER C=100.0 PER D=0.00
                          TP=-0.1333 HR MASS RAINFALL=-1

        K =  0.105867HR    TP =  0.133300HR    K/TP RATIO =  0.794199     SHAPE
CONSTANT, N =  4.514592
        UNIT PEAK =   6.9591    CFS   UNIT VOLUME =   0.9999       B =   388.14
 P60 = 1.8700
        AREA =     0.002390 SQ MI    IA =   0.35000 INCHES    INF =   0.83000
INCHES PER HOUR
        RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT =
0.050000

    PRINT HYD             ID=16 CODE=1

                                          PARTIAL HYDROGRAPH   100.16


        RUNOFF VOLUME =      1.08591 INCHES      =        0.1384 ACRE-FEET
        PEAK DISCHARGE RATE =        4.81 CFS  AT   1.500 HOURS   BASIN AREA =
0.0024 SQ. MI.


    *
    *
    ADD HYD                          ID=50 HYD NO=100.5 ID=1 ID=2

    ADD HYD                          ID=50 HYD NO=100.6 ID=50 ID=3

    ADD HYD                          ID=50 HYD NO=100.8 ID=50 ID=4

    ADD HYD                          ID=50 HYD NO=100.9 ID=50 ID=5

    ADD HYD                          ID=50 HYD NO=100.10 ID=50 ID=6

    ADD HYD                          ID=50 HYD NO=100.11 ID=50 ID=7

    ADD HYD                          ID=50 HYD NO=100.12 ID=50 ID=8

    ADD HYD                          ID=50 HYD NO=100.13 ID=50 ID=9

    ADD HYD                          ID=50 HYD NO=100.14 ID=50 ID=10

    ADD HYD                          ID=50 HYD NO=100.15 ID=50 ID=11

    ADD HYD                          ID=50 HYD NO=100.16 ID=50 ID=12

    ADD HYD                          ID=50 HYD NO=100.17 ID=50 ID=13

    ADD HYD                          ID=50 HYD NO=100.18 ID=50 ID=14
```

```
ADD HYD                          ID=50 HYD NO=100.19 ID=50 ID=15

ADD HYD                          ID=50 HYD NO=100.20 ID=50 ID=16

*
PRINT HYD            ID=50 CODE=1

                                     PARTIAL HYDROGRAPH   100.20

     RUNOFF VOLUME =      1.97292 INCHES      =       3.6259 ACRE-FEET
     PEAK DISCHARGE RATE =      89.04 CFS  AT   1.500 HOURS   BASIN AREA =
0.0345 SQ. MI.


*
*
*ROUTE THROUGH DETENTION POND NO 1
ROUTE RESERVOIR      ID=55 HYD NO=200.1 INFLOW ID=50 CODE=24
                         OUTFLOW (CFS) STORAGE(AC-FT) ELEVATION(FT)
                                0.0            0.0            59.00

                                2.745          0.2646         60.00

                                8.002          2.1906         65.00

                                10.979         5.2846         70.00

                                11.233         5.6666         70.50

* * * * * * * * * * * * * * * * *
```

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
0.00	0.00	59.00	0.000	0.00
1.20	10.40	59.41	0.110	1.14
2.40	2.77	65.18	2.303	8.11
3.60	0.13	63.54	1.630	6.47
4.80	0.20	62.12	1.081	4.97
6.00	0.35	61.06	0.674	3.86
7.20	0.38	60.28	0.371	3.03
8.40	0.38	59.62	0.163	1.69
9.60	0.38	59.31	0.082	0.85
10.80	0.38	59.20	0.053	0.55
12.00	0.38	59.16	0.042	0.44
13.20	0.38	59.15	0.039	0.40
14.40	0.38	59.14	0.037	0.39
15.60	0.38	59.14	0.037	0.38
16.80	0.38	59.14	0.037	0.38
18.00	0.38	59.14	0.037	0.38
19.20	0.38	59.14	0.037	0.38
20.40	0.38	59.14	0.037	0.38
21.60	0.38	59.14	0.037	0.38
22.80	0.38	59.14	0.037	0.38
24.00	0.38	59.14	0.037	0.38
25.20	0.00	59.06	0.015	0.16
26.40	0.00	59.02	0.005	0.06
27.60	0.00	59.01	0.002	0.02
28.80	0.00	59.00	0.001	0.01
30.00	0.00	59.00	0.000	0.00

```
PEAK DISCHARGE =          8.196 CFS   PEAK OCCURS AT HOUR     2.10
MAXIMUM WATER SURFACE ELEVATION =          65.325
MAXIMUM STORAGE =          2.3919 AC-FT       INCREMENTAL TIME=     0.050000HRS

*
PRINT HYD              ID=55   CODE=1

                                        PARTIAL HYDROGRAPH    200.10


    RUNOFF VOLUME =      1.97292 INCHES      =        3.6259 ACRE-FEET
    PEAK DISCHARGE RATE =        8.20 CFS   AT    2.100 HOURS    BASIN AREA =
0.0345 SQ. MI.


*
*
FINISH

    NORMAL PROGRAM FINISH              END TIME (HR:MIN:SEC) = 15:34:11
```

IMPORTANT NOTES 10/3/14

CURTIS APPROVED ✓ VAC OF EAST PUBLIC DRAINAGE EASEMENT ON PLAT BEFORE BP

~~PLAT VACATION~~

NEED PRIVATE DRAINAGE EASEMENT N OF DAYTONA PRIOR TO CO

PRIVATE

PUBLIC

12/11/14 Working on easement w/ Bruckner's
Doing erosion control for them also
Maybe done in 2 weeks

THIS HAS EASEMENTS ~~N OF DAYTONA~~

SFP PERMIT

BTC

✓ VACATION ~~OF EASEMENT EAST~~

6/24/14

DONE Must ~~get~~ take vacation thru DRB to finalize even though signed. Will not get BP w/out this. (Curtis has been saying this from beg)

DONE Got Foundation Permit through BP Dept (Just pad.)

Floodplain Dev Permit

~~Can get it~~

Have one now for grading, ~~but can't get until~~

Cannot get one for BP until we approve O+D (+go thru vacation).

This is not Fastrax even though they are designing it is

EASEMENTS ETC. + FP Permit

Niese, Amy

From: Vince Carrica <VCarrica@tierrawestllc.com>
Sent: Wednesday, September 24, 2014 9:30 AM
To: Niese, Amy
Cc: Rael, Rudy E.
Subject: RE: FedEx Ground Floodplain Development Permit for Building Permit

Amy,
Thanks! I will drop off the original new FDP when we meet at 12:30 today. We just received the new plat showing the vacation back from the owners with their signature and are working on getting City Surveyor signature to be able to submit to DRB to finalize the vacation of the easement. We anticipate having the application into the City this week. We were hoping to make this week's hearing but that submittal deadline is past. We are now looking at the October 8th hearing.

Vince

PRIVILEGED AND CONFIDENTIAL

The information contained in this electronic mail message is confidential, may be privileged, and is intended only for the use of the individual(s) named above or their designee. If you are not the intended recepient of this message, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. Any unauthorized interception of this message is illegal under the law. If you have received this message in error, please immediately notify me by return message or by telephone and delete the original message from your email system. Thank you.

From: Niese, Amy [mailto:AmyNiese@cabq.gov]
Sent: Wednesday, September 24, 2014 9:08 AM
To: Vince Carrica
Cc: Rael, Rudy E.
Subject: FW: FedEx Ground Floodplain Development Permit for Building Permit

Thanks for letting me know about this. Rudy Rael in our section is the person who reviews the FDPs. I am forwarding this to him now. Please communicate with him about the review. You have a FDP for grading now. This one for Building Permit cannot be approved until I approve the Grading and Drainage Plan. As part of the G&D approval, the project needs to be submitted to DRB to finalize the vacation on a plat. A vacation was provided, but it is not final until platted. Thanks.

From: Vince Carrica [mailto:VCarrica@tierrawestllc.com]
Sent: Tuesday, September 23, 2014 1:43 PM
To: Niese, Amy
Subject: RE: FedEx Ground Floodplain Development Permit for Building Permit

Amy,
This is what was submitted previously for the Floodplain Development Permit. I am assuming the application for building permit purposes is the same. If it is the correct form, I will drop off the original this afternoon or tomorrow morning.

Vince

PRIVILEGED AND CONFIDENTIAL

The information contained in this electronic mail message is confidential, may be privileged, and is intended only for the use of the individual(s) named above or their designee. If you are not the intended recepient of this message, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. Any unauthorized interception of this message is illegal under the law. If you have received this message in error, please immediately notify me by return message or by telephone and delete the original message from your email system. Thank you.

From: Niese, Amy [mailto:AmyNiese@cabq.gov]
Sent: Wednesday, September 17, 2014 12:48 PM
To: Vince Carrica
Subject: RE: Drainage Easement - FedEx Ground ABQ

This is what was sent out.

Amy L. D. Niese, PE
Senior Engineer, Hydrology
Planning Department
Develeopment & Building Services Division
(505) 924-3994

From: Vince Carrica [mailto:VCarrica@tierrawestllc.com]
Sent: Wednesday, August 27, 2014 11:25 AM
To: Niese, Amy
Subject: RE: Drainage Easement - FedEx Ground ABQ

Amy,
A10 is primarily asphalt paving with a section of heavy duty concrete paving (slab in middle) and a landscape area. I have attached a site plan that should help.

Vince

PRIVILEGED AND CONFIDENTIAL

The information contained in this electronic mail message is confidential, may be privileged, and is intended only for the use of the individual(s) named above or their designee. If you are not the intended recepient of this message, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. Any unauthorized interception of this message is illegal under the law. If you have received this message in error, please immediately notify me by return message or by telephone and delete the original message from your email system. Thank you.

From: Niese, Amy [mailto:AmyNiese@cabq.gov]
Sent: Wednesday, August 27, 2014 11:08 AM
To: Vince Carrica
Subject: RE: Drainage Easement - FedEx Ground ABQ

I've gotten through a lot of it. I hope to call you later on today about comments. What is basin A10 going to be? You've got 90% D assigned to it, but it doesn't appear to have a lot of impervious area except for the slab in the middle.

From: Vince Carrica [mailto:VCarrica@tierrawestllc.com]
Sent: Wednesday, August 27, 2014 10:45 AM
To: Niese, Amy
Subject: RE: Drainage Easement - FedEx Ground ABQ

Amy,
You are welcome. How is the review of the G&D for Building Permit coming? Curtis mentioned you were reviewing that now.

Vince

PRIVILEGED AND CONFIDENTIAL

The information contained in this electronic mail message is confidential, may be privileged, and is intended only for the use of the individual(s) named above or their designee. If you are not the intended recepient of this message, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. Any unauthorized interception of this message is illegal under the law. If you have received this message in error, please immediately notify me by return message or by telephone and delete the original message from your email system. Thank you.

From: Niese, Amy [mailto:AmyNiese@cabq.gov]
Sent: Wednesday, August 27, 2014 10:28 AM
To: Vince Carrica
Subject: RE: Drainage Easement - FedEx Ground ABQ

Thanks.

From: Vince Carrica [mailto:VCarrica@tierrawestllc.com]
Sent: Wednesday, August 27, 2014 10:03 AM
To: Cherne, Curtis; Niese, Amy
Cc: Ron Bohannan; bruce.puffer@westco.us
Subject: FW: Drainage Easement - FedEx Ground ABQ

Curtis,
Attached is a copy of the recorded drainage easement required on the tract adjacent to the FedEx site on the west from Tom Keleher.

Vince

PRIVILEGED AND CONFIDENTIAL

The information contained in this electronic mail message is confidential, may be privileged, and is intended only for the use of the individual(s) named above or their designee. If you are not the intended recepient of this message, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. Any unauthorized interception of this message is illegal under the law. If you have received this message in error, please immediately notify me by return message or by telephone and delete the original message from your email system. Thank you.

From: Thomas F. Keleher [mailto:tfk@keleher-law.com]
Sent: Wednesday, August 27, 2014 9:55 AM
To: Vince Carrica
Cc: Ron Bohannan
Subject: Drainage Easement

Vince,

Attached is a copy of the recorded easement. Looks like the property description got attached twice.

Thomas F. Keleher
Keleher & McLeod, P.A.
P.O. Box AA
Albuquerque, NM 87103
Phone: (505) 346-4646
Direct: (505) 346-9109
Fax: (505) 346-1370
tfk@keleher-law.com

This email and any attachments are for the sole use of the intended recipient(s) and may contain privileged or confidential attorney-client material and communications or attorney work product. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by return e-mail. Please do not open any attached files, and please destroy all copies of the email and any attachments. Thank you.

If this email is spam, report it to www.OnlyMyEmail.com

If this email is spam, report it to www.OnlyMyEmail.com

If this email is spam, report it to www.OnlyMyEmail.com

If this email is spam, report it to www.OnlyMyEmail.com

If this email is spam, report it to www.OnlyMyEmail.com

If this email is spam, report it to www.OnlyMyEmail.com

FOR BP , EMAILED 9/23

Floodplain Development Permit Form

Planning Dept., City of Albuquerque

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

1. No work of any kind may start 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 if working on or near an endangered species area.
5. 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 _____ Date 9-23-14

Applicant Printed Name Vincent Carrica Phone #: 858-3100

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

Brief Project Description FedEx Ground Development (23.146-Acres)

183,026 sf office/warehouse with parking facilities and landscaping

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

Project address/Legal Disc/Location: Tract 5A Avalon Subdivision Unit No. 5

Description of Work in Special Flood Hazard Area (SFHA):

A. Development Activities

Clearing x Fill x Drilling _____ Excavation x

Watercourse Alteration _____(Including Dredging and Channel Modifications)

Drainage Improvements x Road, Street or Bridge Construction x

Water or Sewer Line Installation x Paving x Walls, Fences ____

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

Other (Please Specify) _____

Rev. April 2014

B. Building Development and Building Type

New Building __x__ Residential (1-4 Family) ____ Residential (More than 4 Family)_____

Commercial __x__ Addition ____ Alteration ____ Demolition ____

Manufactured Home ____

If an addition or alteration:

Estimated Cost of structure before addition/alteration. ____0_____

Estimated Cost of Project $_6,405,910_____ Percent of value (new/existing) ___100%_____

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

Drainage file Number: ___K09D026A_____

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

The proposed development is located in a SFHA Zone (circle one): A AE AH AO

And is located on FIRM Panel:_____

And is located in a Floodway: ___Yes ___No

BFE if Applicable:_____

Drainage File Number:_____

Floodplain Permit Number:_____

Building Permit / Work Order #:_____

Site specific Instructions:_____

_____

_____

_____

ned: _____ Date: _____

d Name: _____

development is a building complete section 4.

Section 4: Requirements for building in a SFHA:

(To be completed by the Floodplain Administrator or Representative).

BFE (unless not available) _____ Minimum Finished Floor Elevation: _____

Minimum Lowest Adjacent Grade (LAG): _____

Change in water elevation (if in a Floodway):_____

Is flood-proofing required: YES ____ NO _____

If yes, method of flood-proofing:_____

Company certifying the flood-proofing:_____

An Elevation Certificate is required for structural development in a SFHA. A Certificate of Occupancy will not be granted until the Planning Department receives the Elevation Certificate.

Section 5: Post Development Certification:

A. For structural Development:

Elevation Certificate received on (Date): _____

Finished Floor Elevation: _____

Lowest adjacent grade: _____

The Floodplain Administrator or Representative verifies that the above information is acceptable ___ is not ____ acceptable per the City of Albuquerque Floodplain Ordinance.

B. The site was visually inspected on (Date) _____

Certificate of Occupancy approved on (Date) _____

Signature: _____ Date: _____

Printed Name: _____

Floodplain Development Permit Form

Planning Dept., City of Albuquerque

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

1. No work of any kind may start 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 if working on or near an endangered species area.
5. 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 _____ Date 6-9-14

Applicant Printed Name RON BOHANNAN Phone #: 858-3100

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

Brief Project Description FEDEX GROUND DEVELOPMENT (23.146-ACRE) 183,026 sf OFFICE / WAREHOUSE WITH PARKING FACILITIES AND LANDSCAPING

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

Project address/Legal Disc/Location: TRACTS 4 & 5 AVALON SUBDIVISION UNIT NO. 5

Description of Work in Special Flood Hazard Area (SFHA):

A. Development Activities

Clearing ✓ Fill ✓ Drilling _____ Excavation ✓

Watercourse Alteration _____(Including Dredging and Channel Modifications)

Drainage Improvements ✓ Road, Street or Bridge Construction _____

Water or Sewer Line Installation ✓ Paving ✓ Walls, Fences ____

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

Other (Please Specify) _____

B. Building Development and Building Type

New Building ✓ Residential (1-4 Family) ____ Residential (More than 4 Family)____

Commercial ✓ Addition ____ Alteration ____ Demolition ____

Manufactured Home ____

If an addition or alteration:

Estimated Cost of structure before addition/alteration. ____0____

Estimated Cost of Project $ 6,405,910.00 Percent of value (new/existing) 100%

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

Drainage file Number: K09D026A

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

The proposed development is located in a SFHA Zone (circle one): A AE AH AO - old Arroyo

And is located on FIRM Panel: 35001C0328

And is located in a Floodway: ___Yes X No

BFE if Applicable: 1'

Drainage File Number: K09D026A

Floodplain Permit Number: K09F026A

Building Permit / Work Order #: ____

Site specific Instructions: The Flooding source was removed by plugging the drain in the I-40 Diversion channel. A LOMR is required. Permit is for grading only.

Signed: Curtis Cherne Date: 6-16-14

Printed Name: Curtis Cherne

If proposed development is a building complete section 4.

Section 4: Requirements for building in a SFHA:

(To be completed by the Floodplain Administrator or Representative).

BFE (unless not available) _____ Minimum Finished Floor Elevation: _____

Minimum Lowest Adjacent Grade (LAG): _____

Change in water elevation (if in a Floodway):_____

Is flood-proofing required: YES ____ NO _____

If yes, method of flood-proofing:_____

Company certifying the flood-proofing:_____

An Elevation Certificate is required for structural development in a SFHA. A Certificate of Occupancy will not be granted until the Planning Department receives the Elevation Certificate.

Section 5: Post Development Certification:

A. For structural Development:

Elevation Certificate received on (Date): _____

Finished Floor Elevation: _____

Lowest adjacent grade: _____

The Floodplain Administrator or Representative verifies that the above information is acceptable ___ is not ____ acceptable per the City of Albuquerque Floodplain Ordinance.

B. The site was visually inspected on (Date) _____

Certificate of Occupancy approved on (Date) _____

Signature: _____ Date: _____

Printed Name: _____

GRANT OF TEMPORARY DRAINAGE EASEMENT
TRACT 6 AVALON SUBDIVISION UNIT 5

WEST OF PROP

This Temporary Drainage Easement is granted by I-40 South, LLC, a NM limited liability company.

Recitals:

1. Westco Albuquerque, LLC, a New Mexico limited liability company, and Westco Albuquerque II, LLC, a New Mexico limited liability company (hereinafter collectively "Grantee") have acquired Tract 5-A of Avalon Subdivision, Unit 5, as shown on the plat of Tract 5-A, Avalon Subdivision, Unit 5, which was filed for record on July 24, 2014 as Document No. 2014058257 from the individual members of I-40 South, LLC, a New Mexico limited liability company ("I-40 South" or "Grantor").

2. Grantee has requested I-40 South to grant an easement on the easterly portion of Tract 6, Avalon Subdivision Unit 5, as shown on the plat of Tracts 1 through 12, Avalon Subdivision, Unit 5, which was filed for record on May 22, 2014 as Document No. 2014040949, so that it can channel historical water flows that come from the west and across said Tract 6 which will allow it to construct improvements on Tract 5-A of Avalon Subdivision, Unit 5.

3. I-40 South has agreed to grant a temporary easement on terms and conditions set forth herein.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I-40 South does hereby grant, bargain, sell and convey unto Westco Albuquerque, LLC and Westco Albuquerque II, LLC, their successors and assigns, a temporary easement for drainage, flood control and conveyance of storm water and the construction, reconstruction, operation and maintenance of, and access to such facilities; on, in, under, over, and across the real estate described on Exhibit A which is attached hereto and incorporated herein.

Except by the written approval of Grantor, no fence, building, or other permanent improvement or obstruction may be placed or maintained in said easement. Grantee shall be responsible to properly maintain the easement and all improvements located therein.

TO HAVE AND TO HOLD the easement for the uses and purposes aforesaid, unto the Grantee, its successors and assigns until such time as the Grantor, its successors or assigns shall develop all or that portion of Tract 6 Avalon Subdivision Unit 5 which is contiguous to Tract 5-A and all flow from and across Tract 6 is controlled by Grantor, its successors or assigns, at which time the Grantee, its successors or assigns shall convey and release the easement to the Grantor, its successors or assigns by quitclaim deed.

FMF 2005/5004 Rec
Beau Tech

4813-6976-1052v2

THERE IS RESERVED unto Grantor the right to use the land described on Exhibit A for open space, landscaping, parking and other purposes which will not interfere with the rights hereby granted.

WITNESS its hand and seal this 20th day of August, 2014.

I-40 SOUTH, LLC

By: _____
Thomas F. Keleher, its Manager

Corporate Acknowledgment

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 20th day of August, 2014, by Thomas F. Keleher, Manager of I-40 South, LLC, a New Mexico limited liability company.

_____
Notary Public

My commission expires: 1/22/17

OFFICIAL SEAL
Margaret A. Bois
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 1/22/17

4813-6976-1052v2

THERE IS RESERVED unto Grantor the right to use the land described on Exhibit A for open space, landscaping, parking and other purposes which will not interfere with the rights hereby granted.

WITNESS its hand and seal this 20th day of August, 2014.

I-40 SOUTH, LLC

By: _____
Thomas F. Keleher, its Manager

Corporate Acknowledgment

STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

The foregoing instrument was acknowledged before me this 20th day of August, 2014, by Thomas F. Keleher, Manager of I-40 South, LLC, a New Mexico limited liability company.

_____
Notary Public

My commission expires: 1/22/17

OFFICIAL SEAL
Margaret A. Bols
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 1/22/17

4813-6976-1052v2

Legal Description
Temporary Private Drainage Easement

A PRIVATE DRAINAGE EASEMENT LYING AND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTIONS 16 AND 21, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, BERNALILLO COUNTY, NEW MEXICO, COMPRISING A PORTION OF TRACT 6, AVALON SUBDIVISION UNIT 5, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MAY 22, 2014, IN BOOK 2014C, PAGE 46, SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED BY NEW MEXICO STATE PLANE COORDINATE SYSTEM GRID BEARINGS (CENTRAL ZONE-NAD 1983) AND GROUND DISTANCES (US SURVEY FOOT) AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF DESCRIBED EASEMENT, ALSO BEING THE NORTHEAST CORNER OF SAID TRACT 6, LYING ON THE SOUTH RIGHT OF WAY LINE OF DAYTONA ROAD, N.W. , MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993", FROM WHENCE A TIE TO ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM MONUMENT "REWARD" BEING A U.S. COAST & GEODETIC SURVEY BENCHMARK BRASS DISK SET IN CONCRETE, STAMPED "REWARD 1969", WHICH BEARS N 85°16'05" E, A DISTANCE OF 3,780.54 FEET;

THENCE FROM SAID POINT OF BEGINNING, LEAVING SAID SOUTH RIGHT OF WAY LINE, S 04°10'50" E, A DISTANCE OF 585.24 FEET TO AN ANGLE POINT MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE S 14°56'38" E, A DISTANCE OF 447.94 FEET TO THE SOUTHEAST CORNER OF DESCRIBED EASEMENT LYING ON THE NORTH RIGHT-OF-WAY LINE OF LOS VOLCANES ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE, S 86°17'45" W, A DISTANCE OF 83.77 FEET TO THE SOUTHWEST CORNER OF DESCRIBED EASEMENT;

THENCE LEAVING SAID NORTH RIGHT-OF-WAY LINE, N 08°07'10" W, A DISTANCE OF 85.87 FEET TO AN ANGLE POINT;

THENCE N 24°48'20" E, A DISTANCE OF 34.34 FEET TO AN ANGLE POINT;

THENCE N 14°56'38" W, A DISTANCE OF 324.66 FEET TO AN ANGLE POINT;

THENCE N 04°10'50" W, A DISTANCE OF 589.88 FEET TO THE NORTHWEST CORNER OF DESCRIBED EASEMENT LYING ON SAID SOUTH RIGHT-OF-WAY LINE OF DAYTONA ROAD, N.W.;

THENCE ALONG SAID SOUTH RIGHT-OF-WAY LINE, N 85°47'25" E, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING, SAID EASEMENT HAVING AN AREA OF 1.2475 ACRES (54,343 SQUARE FEET) MORE OR LESS, and all as shown on Page 2 of 2.

EXHIBIT "A"

4813-6976-1052v2

LEGAL DESCRIPTION

Temporary Private Drainage Easement

A PRIVATE DRAINAGE EASEMENT LYING AND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTIONS 16 AND 21, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, BERNALILLO COUNTY, NEW MEXICO, COMPRISING A PORTION OF TRACT 6, AVALON SUBDIVISION UNIT 5, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MAY 22, 2014, IN BOOK 2014C, PAGE 46, SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED BY NEW MEXICO STATE PLANE COORDINATE SYSTEM GRID BEARINGS (CENTRAL ZONE-NAD 1983) AND GROUND DISTANCES (US SURVEY FOOT) AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF DESCRIBED EASEMENT, ALSO BEING THE NORTHEAST CORNER OF SAID TRACT 6, LYING ON THE SOUTH RIGHT OF WAY LINE OF DAYTONA ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993", FROM WHENCE A TIE TO ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM MONUMENT "REWARD" BEING A U.S. COAST & GEODETIC SURVEY BENCHMARK BRASS DISK SET IN CONCRETE, STAMPED "REWARD 1969", WHICH BEARS S 85°16'05" W, A DISTANCE OF 3,780.54 FEET;

THENCE FROM SAID POINT OF BEGINNING, LEAVING SAID SOUTH RIGHT OF WAY LINE,
S 04°10'50" E, A DISTANCE OF 585.24 FEET TO AN ANGLE POINT MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE S 14°56'38" E, A DISTANCE OF 447.94 FEET TO THE SOUTHEAST CORNER OF DESCRIBED EASEMENT LYING ON THE NORTH RIGHT-OF-WAY LINE OF LOS VOLCANES ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE, S 86°17'45" W, A DISTANCE OF 83.77 FEET TO THE SOUTHWEST CORNER OF DESCRIBED EASEMENT;

THENCE LEAVING SAID NORTH RIGHT-OF-WAY LINE, N 08°07'10" W, A DISTANCE OF 85.87 FEET TO AN ANGLE POINT;

THENCE N 24°48'20" E, A DISTANCE OF 34.34 FEET TO AN ANGLE POINT;

THENCE N 14°56'38" W, A DISTANCE OF 324.66 FEET TO AN ANGLE POINT;

THENCE N 04°10'50" W, A DISTANCE OF 589.88 FEET TO THE NORTHWEST CORNER OF DESCRIBED EASEMENT LYING ON SAID SOUTH RIGHT-OF-WAY LINE OF DAYTONA ROAD, N.W.;

THENCE ALONG SAID SOUTH RIGHT-OF-WAY LINE, N 85°47'25" E, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING, SAID EASEMENT HAVING AN AREA OF 1.2475 ACRES (54,343 SQUARE FEET) MORE OR LESS, AND ALL AS SHOWN ON PAGE 2 OF 2.

Surveyor's Certificate

I, LARRY W. MEDRANO LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS LEGAL DESCRIPTION, AND EASEMENT SURVEY WAS PREPARED BY ME OR UNDER MY DIRECTION FROM NOTES OF AN ACTUAL FIELD SURVEY, AND THE SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

8/20/14

LARRY W. MEDRANO
N.M.P.S. NO. 11993

LARRY W. MEDRANO
NEW MEXICO
11993
REGISTERED PROFESSIONAL SURVEYOR

Exhibit "A"

LEGAL DESCRIPTION

Temporary Private Drainage Easement

A PRIVATE DRAINAGE EASEMENT LYING AND SITUATE WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTIONS 16 AND 21, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, BERNALILLO COUNTY, NEW MEXICO, COMPRISING A PORTION OF TRACT 6, AVALON SUBDIVISION UNIT 5, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT OF SAID SUBDIVISION FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MAY 22, 2014, IN BOOK 2014C, PAGE 46, SAID EASEMENT BEING MORE PARTICULARLY DESCRIBED BY NEW MEXICO STATE PLANE COORDINATE SYSTEM GRID BEARINGS (CENTRAL ZONE-NAD 1983) AND GROUND DISTANCES (US SURVEY FOOT) AS FOLLOWS:

BEGINNING AT THE NORTHEAST CORNER OF DESCRIBED EASEMENT, ALSO BEING THE NORTHEAST CORNER OF SAID TRACT 6, LYING ON THE SOUTH RIGHT OF WAY LINE OF DAYTONA ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993", FROM WHENCE A TIE TO ALBUQUERQUE GEOGRAPHIC REFERENCE SYSTEM MONUMENT "REWARD" BEING A U.S. COAST & GEODETIC SURVEY BENCHMARK BRASS DISK SET IN CONCRETE, STAMPED "REWARD 1969", WHICH BEARS S 85°16'05" W, A DISTANCE OF 3,780.54 FEET;

THENCE FROM SAID POINT OF BEGINNING, LEAVING SAID SOUTH RIGHT OF WAY LINE,
S 04°10'50" E, A DISTANCE OF 585.24 FEET TO AN ANGLE POINT MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE S 14°56'38" E, A DISTANCE OF 447.94 FEET TO THE SOUTHEAST CORNER OF DESCRIBED EASEMENT LYING ON THE NORTH RIGHT-OF-WAY LINE OF LOS VOLCANES ROAD, N.W., MARKED BY A FOUND NO. 4 REBAR WITH PLASTIC CAP "PS 11993";

THENCE ALONG SAID NORTH RIGHT-OF-WAY LINE, S 86°17'45" W, A DISTANCE OF 83.77 FEET TO THE SOUTHWEST CORNER OF DESCRIBED EASEMENT;

THENCE LEAVING SAID NORTH RIGHT-OF-WAY LINE, N 08°07'10" W, A DISTANCE OF 85.87 FEET TO AN ANGLE POINT;

THENCE N 24°48'20" E, A DISTANCE OF 34.34 FEET TO AN ANGLE POINT;

THENCE N 14°56'38" W, A DISTANCE OF 324.66 FEET TO AN ANGLE POINT;

THENCE N 04°10'50" W, A DISTANCE OF 589.88 FEET TO THE NORTHWEST CORNER OF DESCRIBED EASEMENT LYING ON SAID SOUTH RIGHT-OF-WAY LINE OF DAYTONA ROAD, N.W.;

THENCE ALONG SAID SOUTH RIGHT-OF-WAY LINE, N 85°47'25" E, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING, SAID EASEMENT HAVING AN AREA OF 1.2475 ACRES (54,343 SQUARE FEET) MORE OR LESS, AND ALL AS SHOWN ON PAGE 2 OF 2.

Surveyor's Certificate

I, LARRY W. MEDRANO LICENSED UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THIS LEGAL DESCRIPTION, AND EASEMENT SURVEY WAS PREPARED BY ME OR UNDER MY DIRECTION FROM NOTES OF AN ACTUAL FIELD SURVEY, AND THE SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

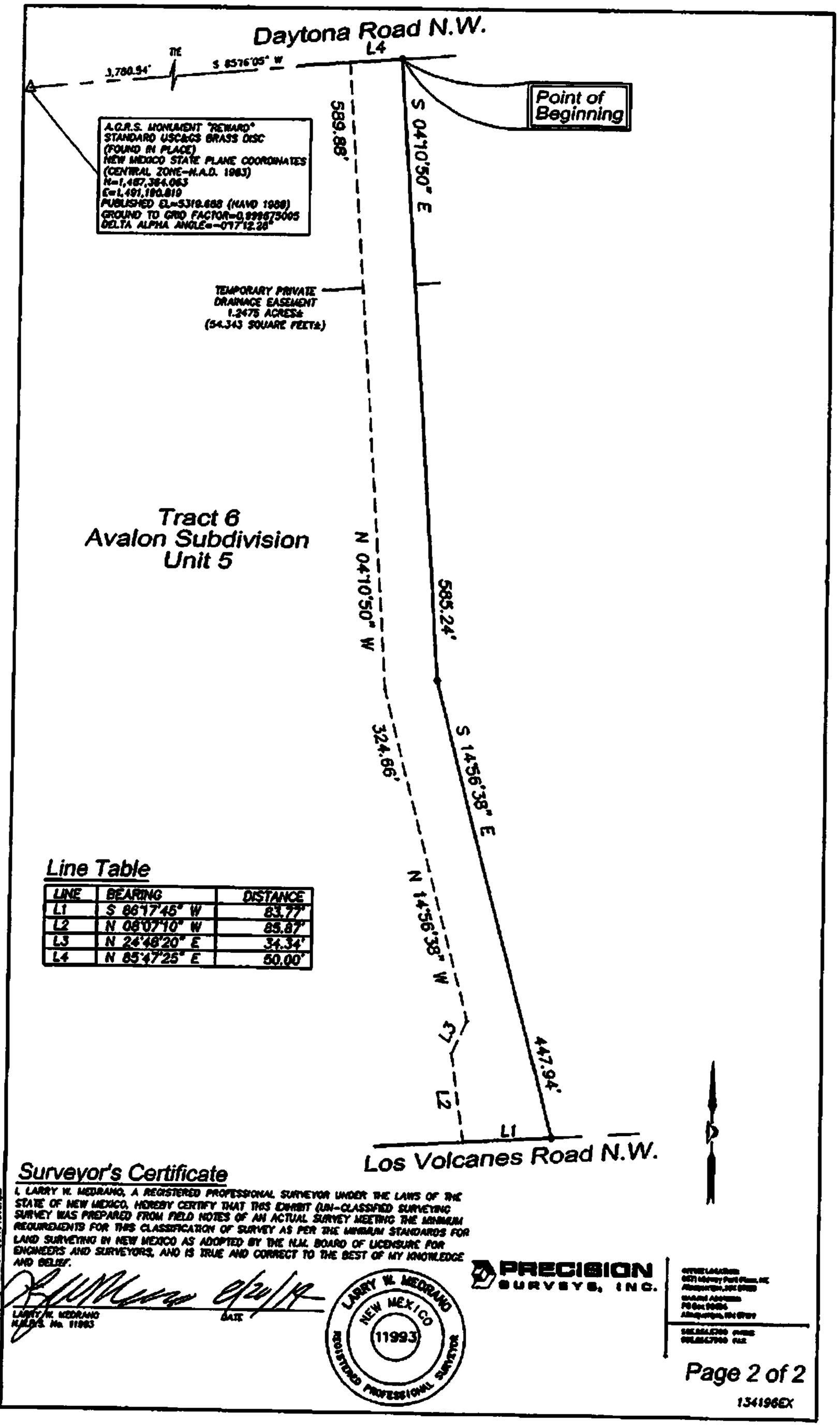
8/20/14

LARRY W. MEDRANO
N.M.P.S. NO. 11993

LARRY W. MEDRANO
NEW MEXICO
11993
REGISTERED PROFESSIONAL SURVEYOR

PAGE 1 OF 2

Exhibit "A"



Line Table

LINE	BEARING	DISTANCE
L1	S 86°17'45" W	83.77'
L2	N 08°07'10" W	85.87'
L3	N 24°46'20" E	34.34'
L4	N 85°47'25" E	50.00'

Surveyor's Certificate

I, LARRY W. MEDRANO, A REGISTERED PROFESSIONAL SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT THIS EXHIBIT (UN-CLASSIFIED SURVEYING SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS FOR THIS CLASSIFICATION OF SURVEY AS PER THE MINIMUM STANDARDS FOR LAND SURVEYING IN NEW MEXICO AS ADOPTED BY THE N.M. BOARD OF LICENSURE FOR ENGINEERS AND SURVEYORS, AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LARRY W. MEDRANO
N.M.P.S. No. 11993

DATE

LARRY W. MEDRANO
NEW MEXICO
11993
REGISTERED PROFESSIONAL SURVEYOR

PRECISION SURVEYS, INC.

Page 2 of 2

134196EX

96124873

Easement Within Tract B-14

GRANT OF SLOPE EASEMENT FOR
FLOODWAY AND STORM DRAINAGE WORKS
Unser Diversion

Helen Mary Van Atta Ellis and James Ellis, her husband, John G Kelcher and Linda B. Kelcher, his wife; Michael L. Kelcher and Margaret W. Kelcher, his wife, Thomas F Kelcher and Gretchen C. Kelcher, his wife, William B. Kelcher and Jan R Kelcher, his wife, Myrle Amanda Van Atta Redmond, a married person; Elizabeth Redmond Allbright, a married person; Margaret Amanda Redmond, F/K/A Margaret Redmond Haughton, a single person; Kirby H Ochmke as Personal Representative of the Estate of Rebecca Clare Van Atta Spence Ochmke, and Kirby H Ochmke, *a widower, Grantors, being the owner of the property described herein, for good and valuable* consideration, the receipt of which is hereby acknowledged, does grant, bargain, sell and convey unto the ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY, a political subdivision of the State of New Mexico, Grantee, and its successors and assigns; the permanent right and easement for drainage, flood control and conveyance of storm water and the construction, reconstruction, operation and maintenance of, and access to such facilities, on, in, under, over and across the real estate located within Bernalillo County, New Mexico, more particularly described in Exhibit "A" attached hereto and incorporated herein by reference

Except by the written approval of Grantee, no fence, wall, building, or other structure may be placed or maintained in said easement Should the proposed flood control or drainage improvements, to be constructed by the Grantee, include an earth fill rising slope that adjoins the outer limits of the area herein described, the Grantors may fill over and use said slope area conditional that any improvements constructed thereon do not penetrate or are placed below the original contour of said fill slope as constructed by the Grantee Any construction that does penetrate said slope area, would require written approval from the Grantee

TO HAVE AND TO HOLD the said easement for the uses and purposes aforesaid, unto the Grantee, its successors and assigns, forever, PROVIDED, HOWEVER, that conditioned upon completion of a drainage plan for lands of the Grantors, acceptable to Grantee, or the City of Albuquerque, showing the easement or portion therof is not required for drainage purposes, such unneeded portion of the easement granted herein shall, from time to time, be vacated at no charge or expense to the Grantors, their successors or assigns, to the extent such easement or portion thereof is declared unnecessary for drainage, flood control or storm water facilities by the Board of Directors of Grantee, or, if the rights of Grantee have been assigned to the City of Albuquerque, by the City of Albuquerque Any vacation shall be evidenced by quitclaim deed, disclaimer or other appropriate document

THERE IS RESERVED to use said lands for open space, landscaping and other purposes which

will not interfere with the rights and easements hereby granted, provided that Grantors obtains Grantee's written approval for such use, not to be unreasonably withheld.

This document may be executed in counterparts.

DATED this 26th day of October 1995.

Helen Mary Van Atta Ellis

James Ellis, her husband

John G. Kelcher

Linda B. Kelcher, his wife

Michael L. Kelcher

Margaret W. Kelcher, his wife

Thomas F. Kelcher

Gretchen C. Kelcher, his wife

William B. Kelcher

Jan R. Kelcher, his wife

Myrle Amanda Van Atta Redmond, a married person

Elizabeth Redmond Allbright, a married person

Margaret Amanda Redmond, F/K/A Margaret Redmond Haughton, a single person

1996 NOV 15 PM 3:07
9630 6226-6234
m Marling

5228

Kirby H. Ochmke
as Personal Representative of the Estate of
Rebecca Clare Van Atta Spence Ochmke

Kirby H Ochmke, a widower

ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on ..., 1995, by
Helen Mary Van Atta Ellis and James Ellis, her husband.

Notary Public

ACKNOWLEDGEMENT

STATE OF ~~NEW MEXICO~~
COUNTY OF ~~BERNALILLO~~

This instrument was acknowledged before me on ..., 1995, by
John G Kelcher and Linda B. Kelcher, his wife.

Notary Public
MY COMMISSION EXPIRES: May 6, 1996
Bonded Thru NOTARY PUBLIC AGENCY

1229

ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on November 3, 1995, by Michael L. Kelcher and Margaret W. Kelcher, his wife.

Lucy M. Contreras
Notary Public
My commission expires May 19, 1995

ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on OCTOBER 27, 1995, by Thomas F Kelcher and Gretchen C. Kelcher, his wife

Paula H Keller
Notary Public
My commission expires 1-27-98

ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on November 3, 1995, by William B Kelcher and Jan R. Kelcher, his wife

Lucy M. Contreras
Notary Public

My commission expires
May 19, 1995

5230

ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on _____, 1995, by Myrle Amanda Van Atta Redmond, a married person.

_____
Notary Public
My commission expires: _____

ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on _____, 1995, by Elizabeth Redmond Allbright, a married person

_____
Notary Public
My commission expires: _____

ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on _____, 1995, by Margaret Amanda Redmond, F/K/A Margaret Redmond Haughton, a single person.

_____
Notary Public
My commission expires: _____

ACKNOWLEDGEMENT

5231

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on November 1, 1995, by Kirby H. Ochmke as Personal Representative of the Estate of Rebecca Claro Van Atta Spence Ochmke.

Betti Jean Stephens
Notary Public

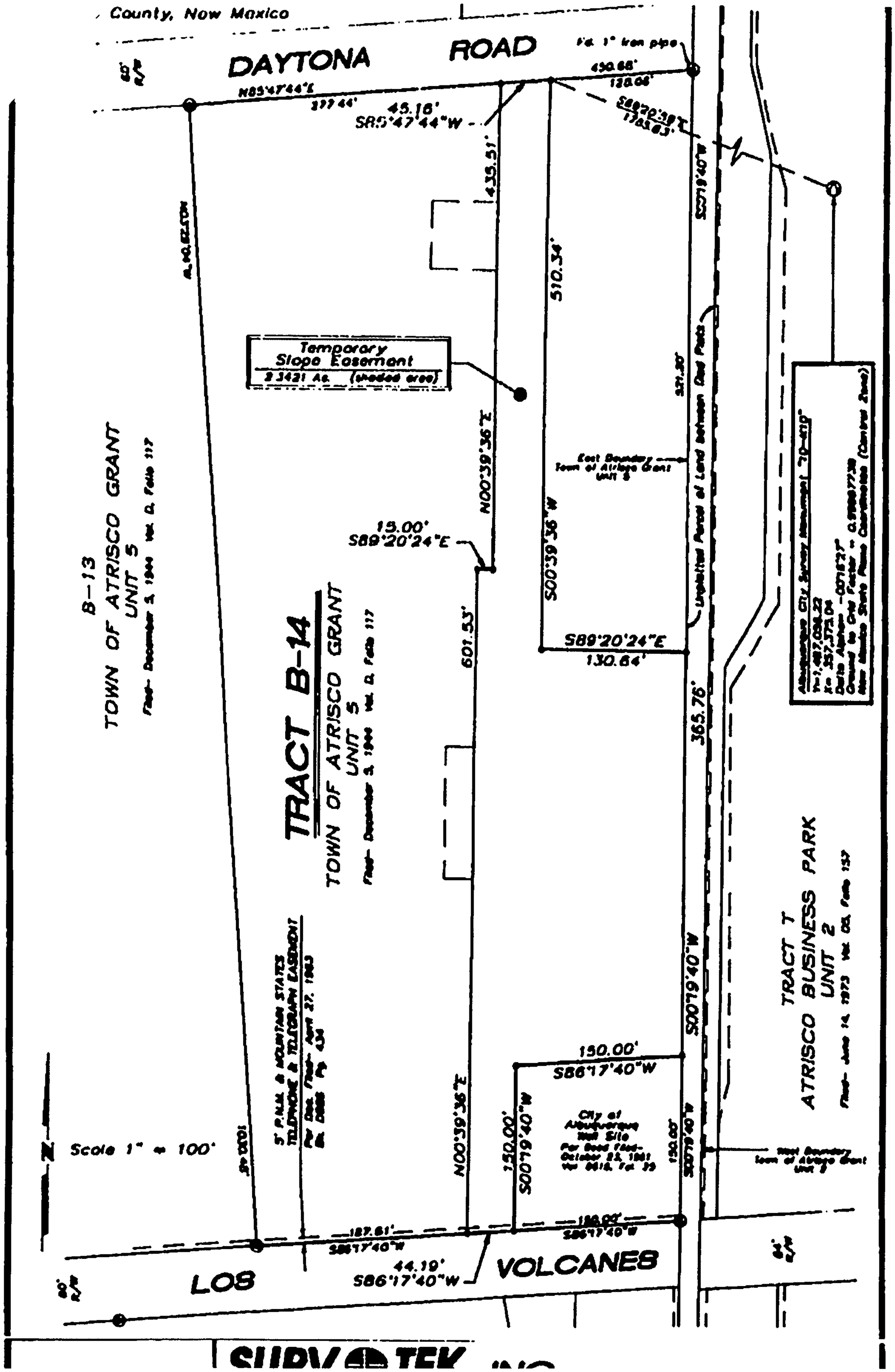
My commission expires 4/13/99.

ACKNOWLEDGEMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on November 1, 1995, by Kirby H. Ochmke, a widower.

Betti Jean Stephens
Notary Public
My Commission expires, 9-13-97


County, New Mexico
DAYTONA ROAD
EAST SIDE OF PROP
N85°47'44"E
377.44'
45.16'
S85°47'44"W
430.68'
130.06'
S88°20'38"E
1705.83'
435.51'
510.34'
S00°19'40"W
371.90'
Temporary Slope Easement
2.3421 Ac. (shaded area)
N00°39'36"E
East Boundary Town of Atrisco Grant Unit 5
S00°39'36"W
S89°20'24"E
130.64'
Unplatted Parcel of Land Between Oak Park
365.76'
15.00'
S89°20'24"E
601.53'
B-13
TOWN OF ATRISCO GRANT
UNIT 5
TRACT B-14
TOWN OF ATRISCO GRANT
UNIT 5
TRACT T
ATRISCO BUSINESS PARK
UNIT 2
S00°19'40"W
150.00'
S86°17'40"W
City of Albuquerque Well Site
150.00'
S00°19'40"W
150.00'
S00°19'40"E
West Boundary Town of Atrisco Grant Unit 5
187.61'
S86°17'40"W
150.00'
S86°17'40"W
44.19'
S86°17'40"W
Scale 1" = 100'
N
LOS
VOLCANES

LEGAL DESCRIPTION-TEMPORARY SLOPE EASEMENT

An easement situate within projected Sections 16 and 21, Township 10 North, Range 2 East, New Mexico Principal Meridian, Town of Atrisco Grant, Bernalillo County, New Mexico comprising an Easterly portion of Tract B-14, Town of Atrisco Grant, Unit 5 as the same is shown and designated on the plat entitled "PLAT SHOWING A PORTION OF TRACTS ALLOTTED FROM TOWN OF ATRISCO GRANT IN SCHOOL DISTRICT 28" filed in the office of the County Clerk of Bernalillo County, New Mexico on December 5, 1944 in Volume D, folio 117 being more particularly described by survey performed by Gary P. Hugg, New Mexico Professional Surveyor Number 5823 using plat bearings and ground distances as follows:

Beginning at a Northeasterly corner of the easement herein described, a point on the Northerly line of said Tract B-14 and a point on the Southerly right of way line of Daytona Road whence (1) the Northeast corner of said Tract B-14, (a 1 inch iron pipe found in place) bears N 85° 47' 44" E, 128.08 feet distant and (2) the Albuquerque Control Survey Monument "10-K10" bears S 69° 20' 59" E, 1785.63 feet distant; Thence,

S 00° 39' 36" W , 510.34 feet to a point; Thence,

S 89° 20' 24" E , 130.64 feet to an Easterly corner of the easement herein described and a point on the Easterly line of said Tract B-14; Thence,

S 00° 19' 40" W , 365.76 feet along the line common to said Tract B-14 and an unplatted parcel of land to a Southeasterly corner of the easement herein described and the Northeast corner of a City of Albuquerque Well site per deed filed October 23, 1961 in Volume D616, folio 35; Thence Southwesterly along said Well Site for the following two (2) courses,

S 86° 17' 40" W , 150.00 feet to a point; Thence,

S 00° 19' 40" W , 150.00 feet to the Southeast corner of the easement herein described, a point on the Southerly line of said Tract B-14 and a point on the Northerly right of way line of Los Volcanes Road; Thence,

S 86° 17' 40" W , 44.19 feet along said Northerly right of way line of Los Volcanes Road to the Southwest corner of the easement herein described; Thence,

N 00° 39' 36" E , 601.53 feet to a point; Thence,

S 89° 20' 24" E , 15.00 feet to a point; Thence,

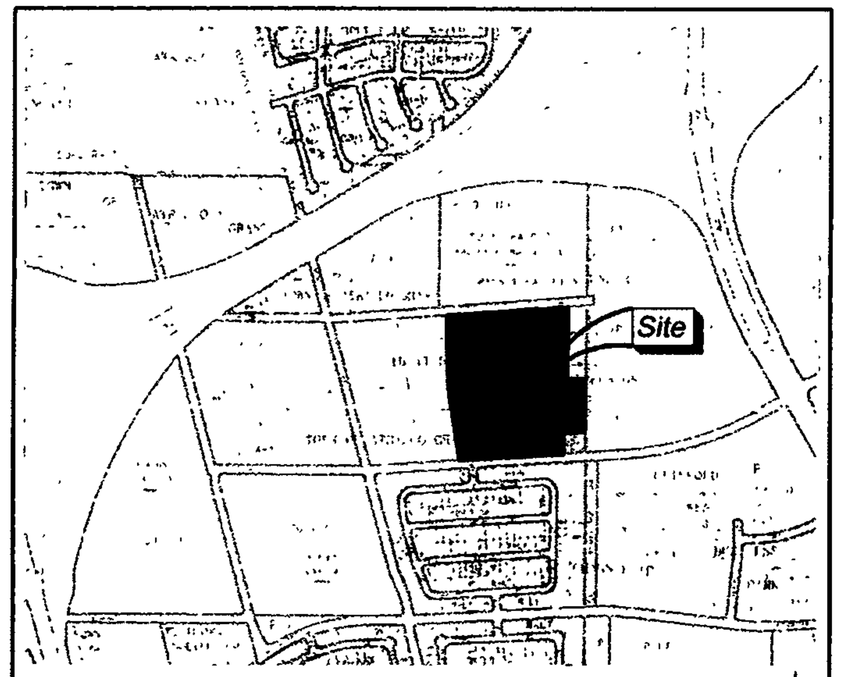
EXHIBIT A
Sheet 2 of 3

N 00° 39' 36" E , 435.51 feet to the Northwest corner of the easement herein described, a point on said Northerly line of Tract B-14 and a point on said Southerly right of way line of Daytona Road; Thence,

N 85° 47' 44" E , 45.16 feet along said Southerly right of way line of Daytona Road to the Northeast corner and point of beginning of the easement herein described.

Said easement contains 2.3421 acres, more or less.

EXHIBIT A
Sheet 3 of 3



Location Map
Zone Atlas Map No. J-9-Z and K-9-Z

N.T.S.

RECORDING STAMP

Plat of
Tract 5-A-1
Avalon Subdivision Unit 5
City of Albuquerque, Bernalillo County, New Mexico
August 2014

Project No. 1009982

Application No. 14DRB-

Subdivision Data:

ZONING: SU-1
GROSS SUBDIVISION ACREAGE: 23.1392 ACRES±
ZONE ATLAS INDEX NO: J-9-Z AND K-9-Z
NO. OF TRACTS CREATED: 1
NO. OF LOTS CREATED: 0
MILES OF FULL-WIDTH STREETS CREATED: 0
DATE OF SURVEY: NOVEMBER 2013

Purpose of Plat

THE PURPOSE OF THIS PLAT IS TO REPLAT EXISTING TRACT FIVE-A INTO ONE NEW TRACT 5-A-1 AND TO VACATE AN EXISTING EASEMENT.

Notes:

1. BEARINGS SHOWN ARE GRID BEARINGS (NEW MEXICO STATE PLANE CENTRAL ZONE - NAD 1983)
2. ALL DISTANCES ARE GROUND DISTANCES-US SURVEY FOOT
3. THIS PROPERTY LIES WITHIN THE TOWN OF ATRISCO GRANT, PROJECTED SECTIONS 16 AND 21, TOWNSHIP 10 NORTH, RANGE 2 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO.
4. PLAT SHOWS ALL EASEMENTS OF RECORD.
5. EASEMENT BEARINGS AND DISTANCES SHOWN HEREON ARE RECORD AND EASEMENTS HAVE BEEN ROTATED TO MATCH BASIS OF BEARINGS AND BOUNDARY UNLESS OTHERWISE INDICATED

Easements

PUBLIC UTILITY EASEMENTS SHOWN ON THIS PLAT ARE GRANTED FOR THE COMMON JOINT USE OF:
A. PUBLIC SERVICE COMPANY OF NEW MEXICO ("PNM"), A NEW MEXICO CORPORATION, (PNM ELECTRIC) FOR INSTALLATION, MAINTENANCE AND SERVICE OF OVERHEAD AND UNDERGROUND ELECTRICAL LINES, TRANSFORMERS, AND OTHER EQUIPMENT AND RELATED FACILITIES REASONABLY NECESSARY TO PROVIDE ELECTRICAL SERVICES.

B. NEW MEXICO GAS COMPANY FOR INSTALLATION, MAINTENANCE, AND SERVICE OF NATURAL GAS LINES, VALVES AND OTHER EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE NATURAL GAS SERVICES

C. QWEST CORPORATION D/B/A CENTURYLINK QC FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF SUCH LINES, CABLE, AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE COMMUNICATION SERVICES.

D. CABLE TV FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF SUCH LINES, CABLE, AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE CABLE SERVICES

INCLUDED IS THE RIGHT TO BUILD, REBUILD, CONSTRUCT, RECONSTRUCT, LOCATE, RELOCATE, CHANGE, REMOVE, REPLACE, MODIFY, RENEW, OPERATE AND MAINTAIN FACILITIES FOR PURPOSES DESCRIBED ABOVE, TOGETHER WITH FREE ACCESS TO, FROM AND OVER SAID EASEMENTS, WITH THE RIGHT AND PRIVILEGE OF GOING UPON, OVER AND ACROSS ADJOINING LANDS OF GRANTOR FOR THE PURPOSES SET FORTH HEREIN AND WITH THE RIGHT TO UTILIZE THE RIGHT OF WAY AND EASEMENT TO EXTEND SERVICES TO CUSTOMERS OF GRANTEE, INCLUDING SUFFICIENT WORKING AREA SPACE FOR ELECTRIC TRANSFORMERS, WITH THE RIGHT AND PRIVILEGE TO TRIM AND REMOVE TREES, SHRUBS OR BUSHES WHICH INTERFERE WITH THE PURPOSES SET FORTH HEREIN. NO BUILDING, SIGN, POOL (ABOVEGROUND OR SUBSURFACE), HOT TUB, CONCRETE OR WOOD POOL DECKING, OR OTHER STRUCTURE SHALL BE ERECTED OR CONSTRUCTED ON SAID EASEMENTS, NOR SHALL WELL BE DRILLED OR OPERATED THEREON PROPERTY OWNERS SHALL BE SOLELY RESPONSIBLE FOR CORRECTING ANY VIOLATIONS OF NATIONAL ELECTRICAL SAFETY CODE BY CONSTRUCTION OF POOLS, DECKING, OR ANY STRUCTURES ADJACENT TO OR NEAR EASEMENTS SHOWN ON PLAT

EASEMENTS FOR ELECTRIC TRANSFORMER/SWITCHGEARS, AS INSTALLED, SHALL EXTEND TEN (10) FEET IN FRONT OF TRANSFORMER/SWITCHGEAR DOORS AND FIVE (5) FEET ON EACH SIDE.

Disclaimer

IN APPROVING THIS PLAT, PUBLIC SERVICE COMPANY OF NEW MEXICO (PNM), QWEST CORPORATION D/B/A CENTURYLINK QC AND NEW MEXICO GAS COMPANY (NMGC) DID NOT CONDUCT A TITLE SEARCH OF THE PROPERTIES SHOWN HEREON. CONSEQUENTLY, PNM, QWEST CORPORATION D/B/A CENTURYLINK QC AND NMGC DO NOT WAIVE OR RELEASE ANY EASEMENT OR EASEMENT RIGHTS WHICH HAVE BEEN GRANTED BY PRIOR PLAT, REPLAT OR OTHER DOCUMENT AND WHICH ARE NOT SHOWN ON THIS PLAT.

Legal Description

TRACT 5-A, AVALON SUBDIVISION, UNIT 5, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, RECORDED JULY 24, 2014 IN MAP BOOK 2014C, FOLIO 74. CONTAINING 23.1392 ACRES (882,392 SQUARE FEET) MORE OR LESS, NOW COMPRISING TRACT 5-A-1, AVALON SUBDIVISION UNIT 5.

Solar Note:

NO PROPERTY WITHIN THE AREA OF REQUESTED FINAL ACTION SHALL AT ANY TIME BE SUBJECT TO A DEED RESTRICTION, COVENANT, OR BINDING AGREEMENT PROHIBITING SOLAR COLLECTORS FROM BEING INSTALLED ON BUILDINGS OR ERECTED ON THE LOTS OF PARCELS WITHIN THE AREA OF THIS PLAT.

Free Consent

THE REPLAT SHOWN HEREON IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THE DESIRES OF THE UNDERSIGNED OWNER AND/OR PROPRIETOR. EXISTING PUBLIC UTILITY EASEMENTS SHOWN HEREON FOR THE COMMON AND JOINT USE OF GAS, ELECTRICAL POWER AND COMMUNICATION SERVICES FOR BURIED AND/OR OVERHEAD DISTRIBUTION LINES, CONDUITS, AND PIPES FOR UNDERGROUND UTILITIES WHERE SHOWN OR INDICATED, AND INCLUDING THE RIGHT OF INGRESS AND EGRESS FOR CONSTRUCTION AND MAINTENANCE, AND THE RIGHT TO TRIM INTERFERING TREES AND SHRUBS. SAID OWNER AND/OR PROPRIETOR DOES HEREBY CERTIFY THAT THIS SUBDIVISION IS THEIR FREE ACT AND DEED SAID OWNERS WARRANT THAT THEY HOLD AMONG THEM COMPLETE AND INDEFEASIBLE TITLE IN FEE SIMPLE TO THE LAND SUBDIVIDED.

SAID OWNER AND/OR PROPRIETOR DOES HEREBY GRANT ALL EASEMENTS AS SHOWN HEREON WITH LISTED BENEFICIARIES AND STIPULATIONS.

9/18/14
JADA R. LEO, PRESIDENT — DATE
WESTCO ALBUQUERQUE, LLC AND WESTCO ALBUQUERQUE II, LLC, BOTH NEW MEXICO LIMITED LIABLITY COMPANIES
BY: THE WESTMORELAND COMPANY, INC., AN ALABAMA CORPORATION, ITS MANAGER

Acknowledgment

STATE OF ALABAMA)
COUNTY OF MADISON) SS

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 14th DAY OF Sept., 2014 BY JADA R LEO, PRESIDENT, WESTCO ALBUQUERQUE, LLC AND WESTCO ALBUQUERQUE II, LLC, BOTH NEW MEXICO LIMITED LIABLITY COMPANIES BY: THE WESTMORELAND COMPANY, INC., AN ALABAMA CORPORATION, ITS MANAGER

BY Nancy K. Kimball NOTARY PUBLIC MY COMMISSION EXPIRES: 7/10/2018

NANCY K. KIMBALL NOTARY PUBLIC ALABAMA STATE AT LARGE

Utility Approvals

PNM	DATE
NEW MEXICO GAS COMPANY	DATE
QWEST CORPORATION D/B/A CENTURYLINK QC	DATE
COMCAST	DATE

City Approvals

Acting CITY SURVEYOR	9/23/14 DATE
REAL PROPERTY DIVISION	DATE
TRAFFIC ENGINEERING, TRANSPORTATION DEPARTMENT	DATE
A.B.C.W.U.A.	DATE
PARKS AND RECREATION DEPARTMENT	DATE
AMAFCA	DATE
CITY ENGINEER	DATE
DRB CHAIRPERSON, PLANNING DEPARTMENT	

TREASURER CERTIFICATE

Surveyor's Certificate

I, LARRY W. MEDRANO, A REGISTERED NEW MEXICO PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY MEETING THE MINIMUM REQUIREMENTS FOR MONUMENTATION AND SURVEYS OF THE CITY OF ALBUQUERQUE SUBDIVISION ORDINANCE AND OF THE MINIMUM STANDARDS FOR LAND SURVEYS AS ADOPTED BY THE N.M BOARD OF LICENSURE FOR ENGINEERS AND SURVEYORS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT NO ENCROACHMENTS EXIST EXCEPT AS NOTED ABOVE AND THAT ALL IMPROVEMENTS ARE SHOWN IN THEIR CORRECT LOCATION RELATIVE TO RECORD BOUNDARIES AS LOCATED BY THIS SURVEY.

8/29/14
LARRY W. MEDRANO — DATE
N.M.P.S. No. 11993

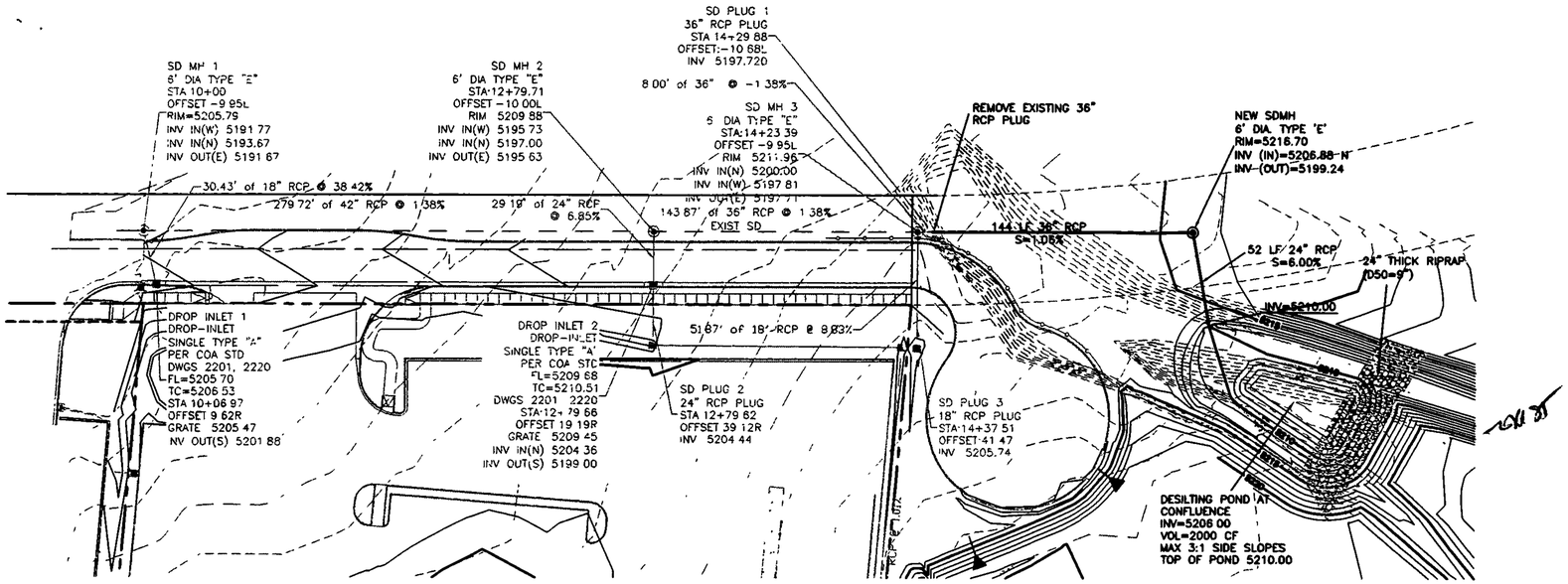
LARRY W. MEDRANO NEW MEXICO 11993 REGISTERED PROFESSIONAL SURVEYOR

PRECISION SURVEYS, INC.

OFFICE LOCATION:
5571 Midway Park Place, NE
Albuquerque, NM 87109
MAILING ADDRESS:
PO Box 90636
Albuquerque, NM 87199
505.856.5700 PHONE
505.856.7900 FAX

INDEXING INFORMATION FOR COUNTY CLERK
OWNER WESTCO ALBUQUERQUE, LLC AND WESTCO ALBUQUERQUE II, LLC
BY: THE WESTMORELAND COMPANY, INC.,
SECTION 16 AND 21, TOWNSHIP 10 N, RANGE 2 E,
SUBDIVISION AVALON SUBDIVISION UNIT 5

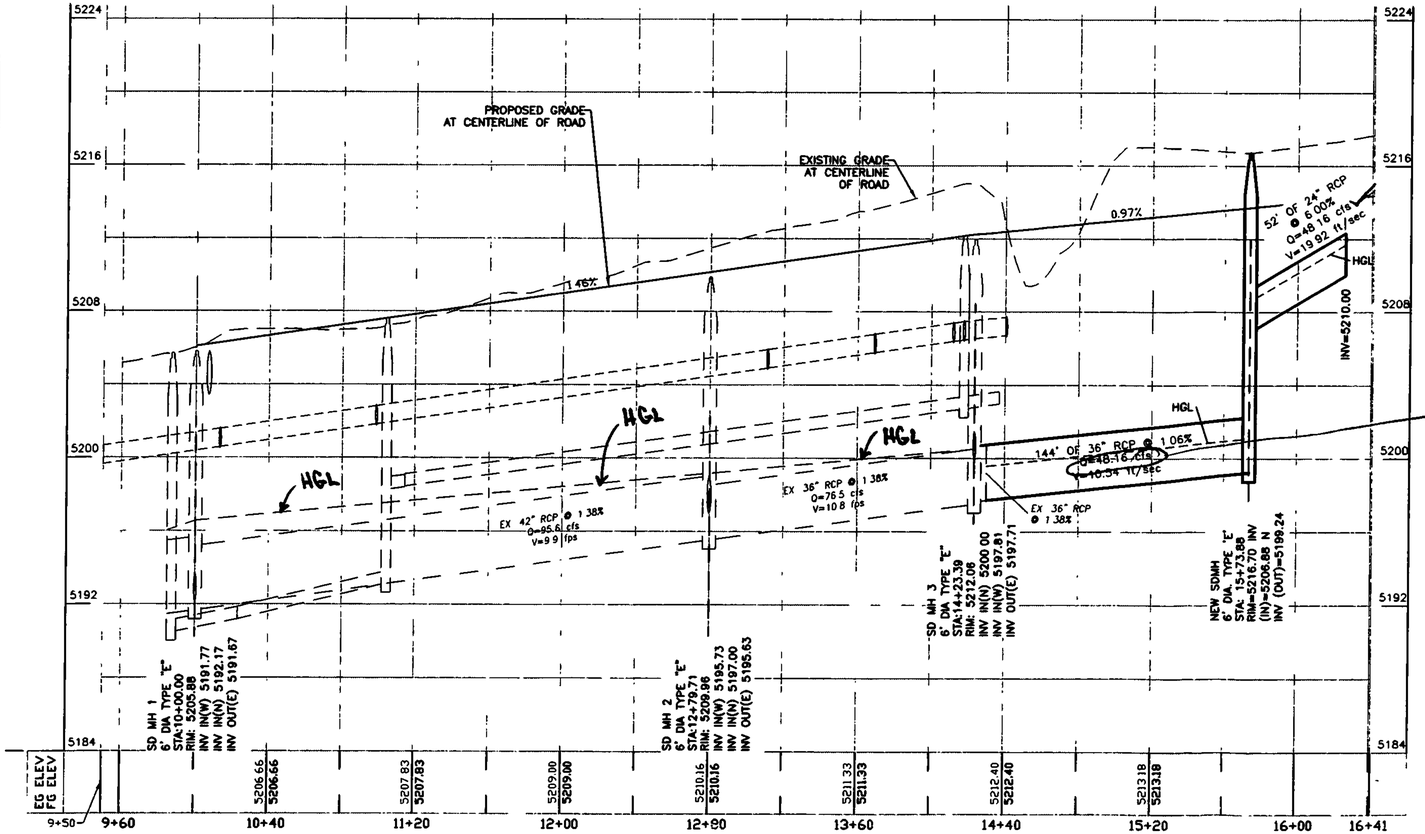
146114P



LEGEND

- CURB & GUTTER
- BOUNDARY LINE
- EASEMENT
- CENTERLINE
- SIDEWALK
- EXISTING CURB & GUTTER
- EXISTING BOUNDARY LINE
- 30" SD — STORM SEWER LINE
- 8" SAS — SANITARY SEWER LINE
- 8" WL — WATERLINE
- SINGLE CLEAN OUT
- EXISTING SD MANHOLE
- EXISTING INLET
- EXISTING SAS MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- EXISTING POWER POLE
- EXISTING GAS VALVE
- OHU — EXISTING OVERHEAD UTILITIES
- EX UGE — EXISTING UNDERGROUND UTILITIES
- EX 2" G-S — EXISTING GAS
- EX 8" SAS — EXISTING SANITARY SEWER LINE
- EX 12" WL — EXISTING WATER LINE
- EX 30" RCP — EXISTING STORM SEWER LINE

DAYTONA RD



68.86 LLT (72.03) CHANGE OR NOT

N

40 20 0 20 40

SCALE: HORIZ. 1"=40'
VERT. 1"=4'

CAUTION
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO

BENCH MARKS
A.G.R.S. MONUMENT "PEWARD"
STANDARD USC&GS BRASS DISC
NEW MEXICO STATE PLANE COORDINATES
(CENTRAL ZONE-N.A.D. 1983)
N=1,487,364.063
E=1,491,190.819
PUBLISHED EL=5319.688 (NAVD 1988)
GROUND TO GRID FACTOR=0.999675005
DELTA ALPHA ANGLE=-01°17'12.26"

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	BY	DATE	REMARKS

REVISIONS

DESIGN
DESIGNED BY: VC — DATE: 10/21/14
DRAWN BY: DY — DATE: 10/21/14
DRAWING NAME: 2013075-SH18-DAYTONA-SD — JOB NO.: 2013075
CHECKED BY VC — DATE: 10/21/14

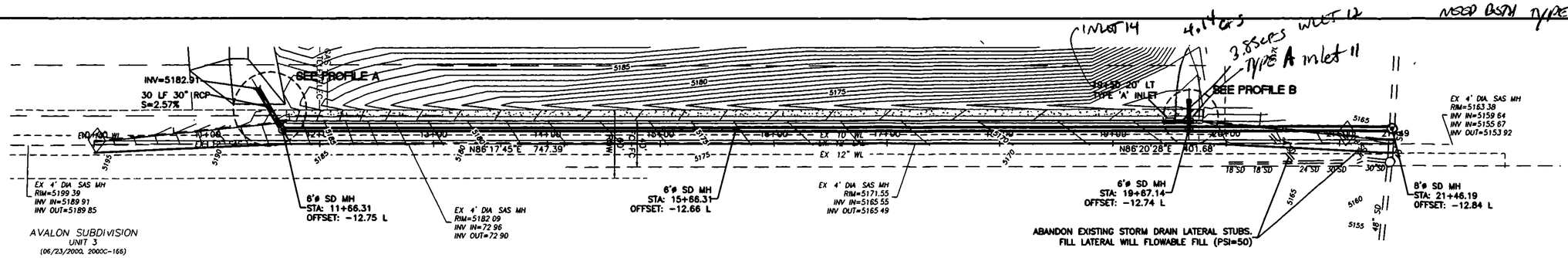
TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100
www.tierrawestllc.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

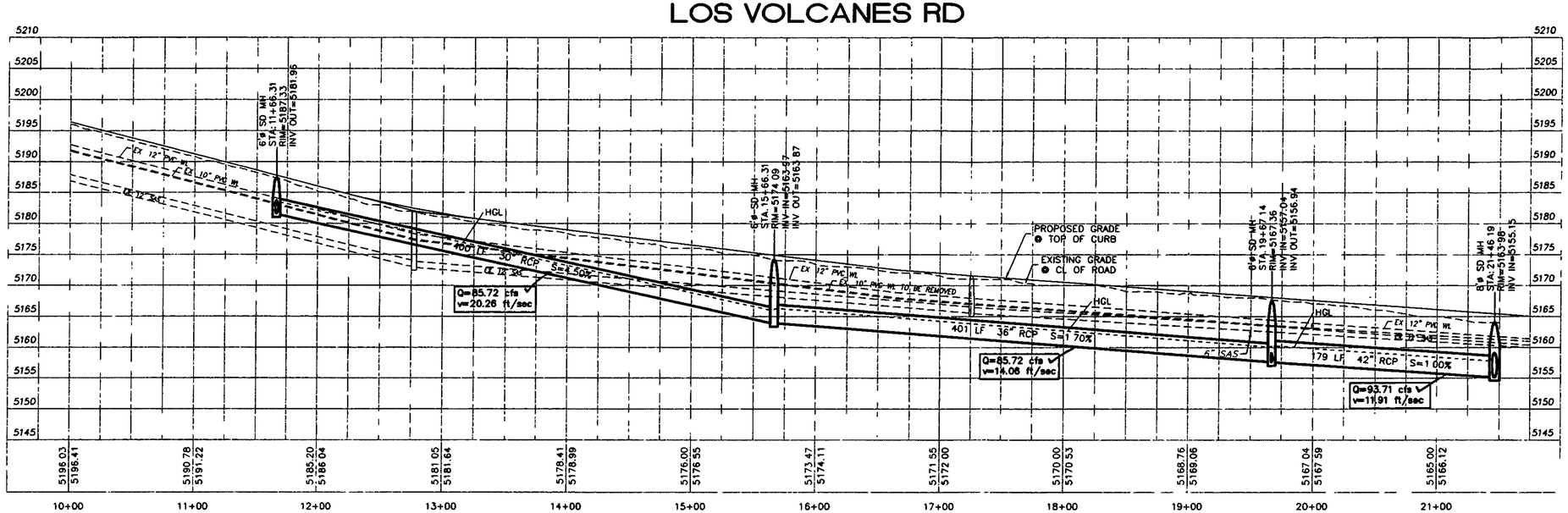
TITLE
FEDEX GROUND
STORM DRAIN IMPROVEMENTS
DAYTONA RD

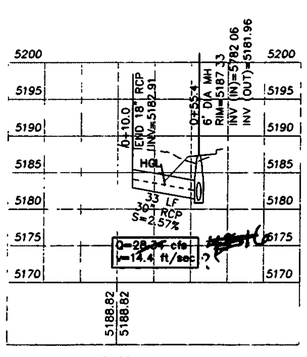
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
655784	J-09-Z	18	21

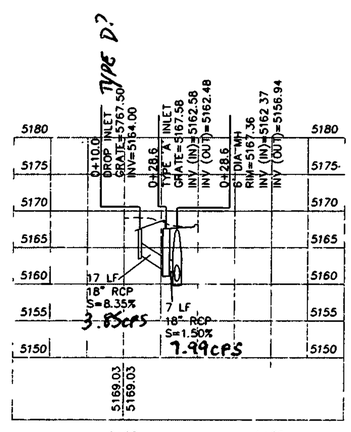


LOS VOLCANES RD





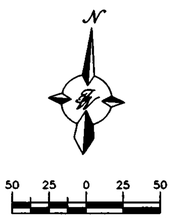
PROFILE A



PROFILE B

LEGEND

CURB & GUTTER	EXISTING SAS MANHOLE
BOUNDARY LINE	EXISTING FIRE HYDRANT
EASEMENT	EXISTING WATER METER
CENTERLINE	EXISTING POWER POLE
PROPOSED SIDEWALK	EXISTING GAS VALVE
EXISTING CURB & GUTTER	EXISTING OVERHEAD UTILITIES
EXISTING PROPERTY LINE	EXISTING UNDERGROUND UTILITIES
8" SAS — SANITARY SEWER LINE	EX 2" GAS — EXISTING GAS
8" WL — WATERLINE	EX 8" SAS — EXISTING SANITARY SEWER LINE
EXISTING SD MANHOLE	EX 12" WL — EXISTING WATER LINE
EXISTING INLET	EX 30" RCP — EXISTING STORM SEWER LINE



CAUTION
ALL EXISTING UTILITIES SHOWN WERE OBTAINED FROM RESEARCH, AS-BUILTS, SURVEYS OR INFORMATION PROVIDED BY OTHERS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO AND INCLUDING ANY EXCAVATION, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS, PRIOR TO STARTING THE WORK. ANY CHANGES FROM THIS PLAN SHALL BE COORDINATED WITH AND APPROVED BY THE ENGINEER.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
AS BUILTS REVIEWED BY
ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS
A.C.R.S. MONUMENT "REWARD"
STANDARD USC&GS BRASS DISC
NEW MEXICO STATE PLANE COORDINATES
(CENTRAL ZONE-NAD 1983)
N=1,487,364.063
E=1,491,190.819
PUBLISHED EL=5319.688 (NAVD 1988)
GROUND TO GRID FACTOR=0.999675005
DELTA ALPHA ANGLE=-01°17'12.26"

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY: VC — DATE 7/29/14
DRAWN BY: DY — DATE 7/29/14
DRAWING NAME: 2013075-SH06-LOS_VOLCANES-SD — JOB NO: 2013075
CHECKED BY: VC — DATE 7/29/14

TIERRA WEST, LLC
5571 MIDWAY PARK PLACE NE
ALBUQUERQUE, NM 87109
(505)858-3100
www.tierrawestllc.com

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **FEDEX GROUND**
STORM DRAIN IMPROVEMENTS
LOS VOLCANES RD: STA: 11+66.31 TO 21+46.19

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO/DAY/YR	MO/DAY/YR

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
655784	K-09-Z	17	20

CITY OF ALBUQUERQUE

October 6, 2014

Vince Carrica, P.E.
Tierra West, LLC
5571 Midway Park Pl NE
Albuquerque, NM 87109

Re: FedEx Ground ABQ Drainage Report and Grading Plan and Drainage Plan Engineer's Stamp Date 9-12-14 (K09D026A)

Dear Mr. Carrica,

Based upon the information provided in your submittal received 9-12-14, the above referenced report and plan cannot be approved for Building Permit approval until the following comments are addressed:

1. On sheet G-6, a desiltation pond is shown northwest of Daytona. Provide rip-rap on the upward slope from the bottom of the pond elevation to the top of pond. Include a top of pond elevation. Show existing contour elevations that the pond is tying into. What is the top of pond elevation? Provide a swale from the top of pond to the concrete pad for the 24 inch storm pipe. Ultimately, the 24 inch storm pipe will receive 48 cfs. The pipe is at a 20% slope. Reduce the slope and provide the HGL for the proposed 24 inch and 36 inch pipe in Daytona. Also provide the HGL for the storm drain in Los Volcanes. The ROW for Daytona begins to curve near the pond. Show the correct ROW.
2. Provide a private drainage easement with the maintenance defined for the pond northwest of Daytona prior to the Grading and Drainage Certification of the Fed Ex Grading and Drainage Plan. The format should follow the one already provided for the desiltation pond west of the Fed Ex site.
3. For the pond north of Los Volcanes, provide enough distance for the slope so that it is actually 3:1 as called out on the plan.
4. Show the storm drainage on the master drainage plan so it easier to follow the report. Two pipe #20 references are shown. The one by the inlet should be #22 not #20.
5. In the Storm Drainage Table the basins for Pipe #18 should not include C1D1 and D2D2 for the Interim Condition. The flow stated for Pipe #18 is correct. Pipes #19 and #20 should not include basin LV5 in them because the water goes in the inlet further down at Pipe #22. Pipes #19 and #20 should total to 85.72 cfs instead of 87.00 cfs. The flow for Pipe#22 is stated as 8.48, but the basins referenced add to 7.99 cfs. The basins for Pipe #23 add to 93.71, but the total in the table is 89.86 cfs. AHYMO states 89.04 cfs is going into pond, but the basins (including surface flow) are 87.17 cfs. Please correct all discrepancies. There is no discussion of the storm drain sizing in the tables for the 24 and 36 inch storm drains in Daytona. Include that.
6. Under Interim Drainage Conditions, the report states 16.1 cfs drains to the desiltation pond north of Los Volcanes. The amount is 28.34 cfs for the summation of the drainage basins referenced. Please revise.

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

CITY OF ALBUQUERQUE

7. Provide a detail (width and size) for the rip-rap along the east and south sides of the parking lot.
8. Where the 18 inch storm drains connect to the storm pipe north of the building, what are the inverts?
9. Inlet (2) is supposed to be a double inlet per your letter. Call it out as such on the grading plans.
10. An easement for Floodway and Storm Drainage Works is on the east side of Tract 5-A of Avalon Subdivision Unit 5. The platting action through DRB should be complete prior to the Certificate of Occupancy for this site. PROCESSING PLAT THRU DRY UTIL. CHRTS SIGNED.

Please contact me at 924-3994 if you have any questions.

Sincerely,

Amy L. D. Niese, P.E.
Senior Engineer, Hydrology
Planning Department

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

C: e-mail

City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEx Ground City Drainage #: K09D026A

DRB#: EPC#: 14EPC-40012 (Project#1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13 and Tract 14A, Town of Atrisco Grant Unit 5

City Address:

Engineering Firm: Tierra West, LLC Contact: Vince Carrica

Address: 5571 Midway Park Place NE Albuquerque NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: vcarrica@tierrawestllc.com

Owner: I-40 South , LLC c/o Thomas Keleher Contact: Thomas Keleher

Address: P.O. Box AA, Albuquerque, NM 87103

Phone#: 505-346-4646 Fax#: E-mail: tfk@keleher-law.com

Architect: Castle Design Group Contact. Larry L. Christian

Address: 3801 Kirby Drtive, Suite 600, Houston, TX 77098

Phone#: 713-664-7974 Fax#: E-mail: lchristian@castledesigngroup.com

Surveyor: Precision Surveys Contact: Larry Medrano

Address: 5571 Midway Park Place NE Albuquerque NM 87109

Phone#: Fax#: E-mail:

Contractor: W&G Construction Company Contact: Chris White

Address: 470 Central Road, Fredericksburg, VA 22401

Phone#: 5403682688 Fax#: E-mail: cwhite@wandgconstruction.com

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
X DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ EROSION & SEDIMENT CONTROL PLAN (ESC)
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM)
___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
X BUILDING PERMIT APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION

___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED
SEP 19 2014
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ____ Yes ____ No ____ Copy Provided

DATE SUBMITTED: 09/09/2014 By: Vince Carrica

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, anc scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**. Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

TIERRA WEST, LLC

5571 Midway Park Place NE Albuquerque, NM 87109
(505) 858-3100 Fax (505) 858-1118 1-800-245-3102
tierrawestllc.com

September 19, 2014

Ms. Amy L. D. Niese, P.E.
Senior Engineer, Hydrology
Planning Department
PO Box 1293
Albuquerque, NM 87103

RE: FedEx Ground ABQ Drainage Report and Grading Plan and Drainage Plan Engineer's Stamp Date 8-12-14 (K09D026A)

Dear Ms. Niese:

Per correspondence from your office dated September 2, 2014, please find the following responses addressing the drainage comments listed below:

1. Provide contours for the western portion of the Pre and Post Developed Drainage Basin Maps. Show the current layout of the Daytona ROW going through the western basins on the Basin Map. Show the desilting pond and storm drain west of Daytona Road on the Post Developed Drainage Basin Map. West of Daytona, construct desilting pond slopes outside of the ROW and extend the proposed storm drain as necessary. Provide the updated Daytona Road Grading and Drainage Improvements sheet, GR-6, which was submitted with the previous submittal but not this one.

   Response: The basin maps have been updated with the requested information. The Daytona Road grading and drainage improvements sheet is included.

2. In your report under Developed Drainage Conditions, include the basins and flows with your description of the offsite acreage and directions of flows to clarify which flows specifically are being discussed.

   Response: Basin and flow information has been added to the written report.

3. On the Post Developed Drainage Basin Map, Basin C-4D is shown with a shading indicating the flows will go to Daytona Road and eventually Pond 6. However, the report says the flow from Basin C-4D will go east eventually to Los Volcanos Road. The Daytona Road Storm Drain Master Plan for the West Side Transit Facility by Smith Engineering shows that area should go to Daytona Road. Please revise the report.

Response: The report has been revised to reflect that until Basin C-4D is developed it will drain to Los Volcanes. After it is developed, it will drain to Daytona as programed in the master drainage plan for the area.

4. Analysis Point 18 indicates the flow going into the 30 inch storm drain is 85.72 cfs. In another paragraph, the report states the flow to the 30 inch storm drain is approximately 80cfs. Which is correct? Are basins C-1D1 and C-2D2 surface draining into Los Volcanos or draining to the 30 inch storm drain at Analysis Point 18? Where is Analysis Point 18 exactly? Is it in the pond, in the first section of the 30 inch storm drain, or later? Analysis point 18 includes the 85.72 cfs flows to the 30 inch storm drain, but the report states D1D1 and C-2D2 are surface draining to Los Volcanos. The 30 inch storm drain should be sized for the developed flows for basins C-2D1, C-1D2, C-2D2, and C-1D1 but it needs to be clear if C-2D2 and C-1D1 are going directly to the road or storm drain. Revise your report/map/tables accordingly.

   Response: 18 is a pipe run number for the pipe running from the desilting pond to the proposed Los Volcanes storm drain. This pipe will convey flow from undeveloped basins as an interim condition until they are later developed. At that point the desilting basin will be eliminated and developed flows will be conveyed directly to Los Volcanes and the roadway storm drain extended west. A section for "interim conditions" was added to the report to help clarify this.

5. What is the total surface flow in Los Volcanos including the existing conditions of the off-site basins that contribute to it once this site is developed? Provide the street capacity for the flow in Los Volcanos Road once this site is developed. Provide the calculations for inlets 11 and 14. Show inlet 14 on the Post Developed Drainage Basin Map. On GR-3, show what storm drains will be abandoned with CPN 655784.

   Response: Street and inlet capacity calculations were added to the report. Inlet 14 was added. The maximum flows in Los Volcanes after this development are 8.7 cfs for the half street section which is below the street capacity. Storm drain laterals that will be abandoned with CPN 655784 are noted on the plans.

6. What is the total surface flow in Daytona Road after this site is developed? Provide the street capacity for the proposed flow in Daytona Road. Provide the calculations for inlet 13.

   Response: Street and inlet capacity calculations were added to the report. The maximum flows in Daytona after this development are 2.87 cfs for the half street section which is below the street capacity.

7. Provide the calculations for inlet 2 also.

   Response: Inlet capacity calculations were added to the report for DI #2. It was increased from a single to a double inlet to keep runoff from topping the adjacent 6" curb.

24" + 36"

8. The Storm Drain Pipes Table indicates all pipes are sized appropriately using Manning's equation. However, based on the parameters provided, the capacities for analysis points 5, 8, 18, and 20 do not seem to be adequate. Provide calculations showing the storm drains are adequately sized or resize them.

   Response: The table has been updated and plans have been updated with minor changes in grades to provide required storm drain capacities.

9. Provide headwall details for the four headwalls called out on the plans. What are the inverts of the storm drains going into Pond 5? What is the invert of the storm drain in the small pond north of the proposed building? Include riprap for the design of the desiltation pond north of Los Volcanos since a significant amount of flow will be entering that pond. Have the pond slopes outside the 5 foot PUE.

   Response: A headwall detail and inverts for were added to the plans. Riprap was added at the desilting pond at Los Volcanes and the pond slopes were moved outside the 5' PUE.

10. On GR-5, what is the invert of the 24 inch entering the existing outlet structure? What is the length of the 24 inch storm drain? Show one foot of cover minimum over the 24 inch storm drain. Instead of plugging the existing 3 orifices in the existing outlet structure, provide an opening for the new 24 inch pipe.

    Response: Requested information was added to the outlet structure detail.

11. An Interim Grading and Drainage Plan dated May 19, 2014 was approved for grading permit. A revised Interim Grading and Drainage Plan was submitted with the last submittal. Since you have already received approval of it for the grading permit, remove the Interim Grading and Drainage Plan from the next submittal.

    Response: The interim G&D plan was removed from this submittal.

12. The project has received a Floodplain Permit for the grading. Please submit a Floodplain Permit application for the building. A blank permit is attached for your use.

    Response: The floodplain permit application will be completed and emailed to you.

13. An easement for Floodway and Storm Drainage Works is on the east side of Track 5-A of Avalon Subdivision Unit 5. A vacation has been submitted for that easement. Complete the vacation by having it plated through DRB. Apply for the platting action prior to Building Permit approval by Hydrology. The platting action should be complete prior to the Certificate of Occupancy for this site.

    Response: The plat eliminating the noted easement will be submitted to DRB the first part of next week to be heard on the October 1st hearing.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

Vincent Carrica, P.E.

Enclosure/s

JN: 2013075
VPC/sc

Z:\2013\2013075 Daytona Blvd Distribution Center\Working Documents\2013075 14-09-19 FedEx Ground Response Letter - Amy L. D. Niese.docx

CITY OF ALBUQUERQUE

September 2, 2014

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

Re: FedEx Ground ABQ Drainage Report and Grading Plan and Drainage Plan Engineer's Stamp Date 8-12-14 (K09D026A)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 8-12-14, the above referenced report and plan cannot be approved for Grading Permit approval nor Building Permit approval until the following comments are addressed:

1. Provide contours for the western portion of the Pre and Post Developed Drainage Basin Maps. Show the current layout of the Daytona ROW going through the western basins on the Basin Map. Show the desilting pond and storm drain west of Daytona Road on the Post Developed Drainage Basin Map. West of Daytona, construct desilting pond slopes outside of the ROW and extend the proposed storm drain as necessary. Provide the updated Daytona Road Grading and Drainage Improvements sheet, GR-6, which was submitted with the previous submittal but not this one.
2. In your report under Developed Drainage Conditions, include the basins and flows with your description of the offsite acreage and direction of flows to clarify which flows specifically are being discussed.
3. On the Post Developed Drainage Basin Map, Basin C-4D is shown with a shading indicating the flows will go to Daytona Road and eventually Pond 6. However, the report says the flow from Basin C-4D will go east eventually to Los Volcanos Road. The Daytona Road Storm Drain Master Plan for the West Side Transit Facility by Smith Engineering shows that area should go to Daytona Road. Please revise the report.
4. Analysis Point 18 indicates the flow going into the 30 inch storm drain is 85.72 cfs. In another paragraph, the report states the flow to the 30 inch storm drain is approximately 80 cfs. Which is correct? Are basins C-1D1 and C-2D2 surface draining into Los Volcanos or draining to the 30 inch storm drain at Analysis Point 18? Where is Analysis Point 18 exactly? Is it in the pond, in the first section of the 30 inch storm drain, or later? Analysis point 18 includes the 85.72 cfs flows to the 30 inch storm drain, but the report states C-1D1 and C-2D2 are surface draining to Los Volcanos. The 30 inch storm drain should be sized for the developed flows for basins C-2D1, C-1D2, C-2D2, and C-1D1 but it needs to be clear if C-2D2 and C-1D1 are going directly to the road or storm drain. Revise your report/map/tables accordingly.
5. What is the total surface flow in Los Volcanos including the existing conditions of the off-site basins that contribute to it once this site is developed? Provide the street capacity for the flow in Los Volcanos Road once this site is developed. Provide the calculations

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

for inlets 11 and 14. Show inlet 14 on the Post Developed Drainage Basin Map. On GR-3, show what storm drains will be abandoned with CPN 655784.

6. What is the total surface flow in Daytona Road after this site is developed? Provide the street capacity for the proposed flow in Daytona Road. Provide the calculations for inlet 13.
7. Provide the calculations for inlet 2 also.
8. The Storm Drain Pipes Table indicates all pipes are sized appropriately using Manning's equation. However, based on the parameters provided, the capacities for analysis points 5, 8, 18, and 20 do not seem to be adequate. Provide calculations showing the storm drains are adequately sized or resize them.
9. Provide headwall details for the four headwalls called out on the plans. What are the inverts of the storm drains going into Pond 5? What is the invert of the storm drain in the small pond north of the proposed building? Include riprap for the design of the desiltation pond north of Los Volcanos since a significant amount of flow will be entering that pond. Have the pond slopes outside the 5 foot PUE.
10. On GR-5, what is the invert of the 24 inch entering the existing outlet structure? What is the length of the 24 inch storm drain? Show one foot of cover minimum over the 24 inch storm drain. Instead of plugging the existing 3 orifices in the existing outlet structure, provide an opening for the new 24 inch pipe.
11. An Interim Grading and Drainage Plan dated May 19, 2014 was approved for grading permit. A revised Interim Grading and Drainage Plan was submitted with the last submittal. Since you have already received approval of it for the grading permit, remove the Interim Grading and Drainage Plan from the next submittal.
12. The project has received a Floodplain Permit for the grading. Please submit a Floodplain Permit application for the building. A blank permit is attached for your use.
13. An easement for Floodway and Storm Drainage Works is on the east side of Tract 5-A of Avalon Subdivision Unit 5. A vacation has been submitted for that easement. Complete the vacation by having it platted through DRB. Apply for the platting action prior to Building Permit approval by Hydrology. The platting action should be complete prior to the Certificate of Occupancy for this site.

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

Please contact me at 924-3994 if you have any questions.

Sincerely,

Amy L. D. Niese, P.E.
Senior Engineer, Hydrology
Planning Department

C: e-mail

City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

K09D026 A

Project Title: FedEX Ground City Drainage #:

DRB#: EPC#: 14EPC-40012 (Project #1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13, and Tract 14A, Town of Atrisco Grant Unit 5

City Address: Not yet assigned

vcarrica@tierrawestllc.com

Engineering Firm: Tierra West, LLC Contact: Jeffrey T. Wooten, P.E.

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109 Vince Carrica

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: jwooten@tierrawestllc.com

Owner: I-40 South, LLC c/o Thomas Keleher Contact: Thomas Keleher

Address: PO Box AA, Albuquerque, NM 87103

Phone#: 505-346-4646 Fax#: E-mail: tfk@keleher-law.com

Architect: Castles Design Group Contact: Larry L. Christian

Address: 3801 Kirby Drive, Suite 600, Houston, TX 77098

Phone#: 713-664-7974 Fax#: E-mail: lchristian@castlesdesigngroup.com

Surveyor: Precision Surveys Contact: Will Plotner

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-856-5700 Fax#: E-mail: larry@presurv.com

Contractor: W&G Construction Company Contact: Chris White

Address: 470 Central Road, Fredericksburg, VA 22401

Phone#: 540-368-2688 Fax#: E-mail: cwhite@wandgconstruction.com

TYPE OF SUBMITTAL:

X DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
X GRADING PLAN
X EROSION & SEDIMENT CONTROL PLAN (ESC)
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM
___ CERTIFICATE OF OCCUPANCY (TCL T
___ FOUNDATION PERMIT APPROVAL
X BUILDING PERMIT APPROVAL
X GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED
AUG 12 2014
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes X No ___ Copy Provided

DATE SUBMITTED: August 12, 2014 By: Vincent Carrica, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal The particular nature, location, anc scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE

June 16, 2014

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

Re: FedEx Ground Interim Grading Plan
Engineer's Stamp Date 5-19-14 for sheet GR-2 and stamp date 6-11-14 for sheet GR-4 (K09D026A)

Dear Mr. Bohannan,

Based upon the information provided in your submittals received 5-20-14, 6-12-14 and e-mail received from the owner of Tract 6 on 6-16-14 the above referenced sheets are approved for grading permit once the ESC plan is approved.

Hydrology is not approving pipe sizes, land treatments or finished grades as the drainage report has not been approved. In addition, since calculations to size the swale along Los Volcanos Rd was not provided it is the property owner's responsibility to ensure it functions properly.

A slope easement is required on Tract 6 for Site Plan approval.

In the future, please submit a full set of new plans with your submittal.

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Hydrology
Planning Dept.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Cherne, Curtis

From: Thomas F. Keleher <tfk@keleher-law.com>
Sent: Monday, June 16, 2014 3:53 PM
To: Cherne, Curtis
Cc: Vince Carrica; Chuck Easterling
Subject: RE: grading on Tract 6

Yes Curtis. We will be willing to grant an easement on Tract 6, and concur it would be appropriate to approve grading on Tract 6.

Please let me know if you have any additional questions.

Thanks,

Tom Keleher

Please let me
Thomas F. Keleher
Keleher & McLeod, P.A.
P.O. Box AA
Albuquerque, NM 87103
Phone: (505) 346-4646
Direct: (505) 346-9109
Fax: (505) 346-1370
tfk@keleher-law.com

This email and any attachments are for the sole use of the intended recipient(s) and may contain privileged or confidential attorney-client material and communications or attorney work product. Any unauthorized review, use, disclosure, or distribution is prohibited. If you are not the intended recipient, please contact the sender by return e-mail. Please do not open any attached files, and please destroy all copies of the email and any attachments. Thank you.

From: Cherne, Curtis [mailto:CCherne@cabq.gov]
Sent: Monday, June 16, 2014 3:30 PM
To: Thomas F. Keleher
Cc: Vince Carrica
Subject: grading on Tract 6

Mr. Keleher,

The FedEx grading plan shows grading on Tract 6 of Avalon Subdivision Unit 5 (Tract west of FedEx). Is it OK to approve grading on Tract 6 in support of the FedEx project?
I realize the easement will come later.
Thank you,

Curtis

Grading & Drainage
20130075

City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEX Ground City Drainage #: K09D026A

DRB#: EPC#: 14EPC-40012 (Project #1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13, and Tract 14A, Town of Atrisco Grant Unit 5

City Address: Not yet assigned

Engineering Firm: Tierra West, LLC Contact: Jeffrey T. Wooten, P.E.

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: jwooten@tierrawestllc.com

Owner: I-40 South, LLC c/o Thomas Keleher Contact: Thomas Keleher

Address: PO Box AA, Albuquerque, NM 87103

Phone#: 505-346-4646 Fax#: E-mail: tfk@keleher-law.com

Architect: Castles Design Group Contact: Larry L. Christian

Address: 3801 Kirby Drive, Suite 600, Houston, TX 77098

Phone#: 713-664-7974 Fax#: E-mail: lchristian@castlesdesigngroup.com

Surveyor: Precision Surveys Contact: Will Plotner

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone# 505-856-5700 Fax#: E-mail: larry@presurv.com

Contractor: W&G Construction Company Contact: Chris White

Address: 470 Central Road, Fredericksburg, VA 22401

Phone#: 540-368-2688 Fax#: E-mail: cwhite@wandgconstruction.com

TYPE OF SUBMITTAL:

X DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
X GRADING PLAN
X EROSION & SEDIMENT CONTROL PLAN (ESC)
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM)
___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
X GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED MAY 28 2014 LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes X No ___ Copy Provided

Revised

DATE SUBMITTED: May 14, 2014 6-11-14 By: Vincent Carrica, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**. Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

RECEIVED JUN 12 2014 LAND DEVELOPMENT SECTION

gaw

TIERRA WEST, LLC

5571 Midway Park Place NE Albuquerque, NM 87109
(505) 858-3100 Fax (505) 858-1118 1-800-245-3102
tierrawestllc.com

June 11, 2014

Curtis Cherne
Principal Engineer, Hydrology
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: FEDEX GROUND OVERALL GRADING AND DRAINAGE PLAN RESPONSE TO COMMENTS

Dear Mr. Cherne:

Per your correspondence dated June 6, 2014, please find the following responses addressing the comments listed below:

1. Hydrology understands that you wish to begin moving dirt prior to DRB and revised DMP (Easterling and Associates, 2014) approvals. This is acceptable as long as following comments are addressed.
   That is correct. FedEx contractor would like to be moving dirt as early as June 13, 2014 for rough grading.

2. Does the Los Volcanes storm drain have capacity to accept diverted flows?
   Yes, the Los Volcanes storm drain was sized to accept developed flows from this project as well as from the upland properties to the west of the FedEx site.

3. Show/state that Pond 5 has the capacity to accept flows from the graded site as Land Treatment C. Rough calculations show that it has capacity.
   Pond 5 does have the capacity to accept flows from the graded site under interim conditions for rough grading purposes as well as for ultimate conditions with a fully developed site. The existing pond volume is 4.73 acre-feet. The proposed pond volume is 5.404 acre-feet. The calculated interim runoff for a rough graded site as Land Treatment C is 2.0 acre-feet (see attached Weighted-E spreadsheet).

4. Is Pond 5 to be used for sediment control as part of the SWPPP? If so, will you be plugging the 3-8" pipes?
   Yes, Pond 5 will be used in conjunction with proposed BMP's as part of the SWPPP. The existing primary and secondary outfalls will be protected from sediment leaving the ponding area but will not be plugged.

5. It is acceptable to the Dept. of Municipal Development to grade in Pond 5 if it is privately maintained. The City's agreement with AMAFCA will have to be superseded. This could occur later in the process with acknowledgement of maintenance responsibility by the property owner.
   Pond 5 will be privately maintained and we will work with DMD and your office to prepare the necessary agreements to remove this portion of the drainage system from the City's maintenance responsibilities.

6. A Floodplain Development Permit is required prior to grading. Hydrology will e-mail one.
   A Floodplain Development Permit was submitted to your office this week.

7. This plan proposes grading and construction of storm drain on an adjacent parcel. Is the adjacent parcel B12? Does the west lot line currently exist in this location? Written permission from the adjacent land owner is required. An easement may be required.
   The west lot line does exist as shown on the proposed grading and drainage plan. Written permission will be acquired from the adjacent land owner to the west to allow for the grading work for the diversion of the upland flows. An easement will be provided for this diversion. The land owner to the west is the same owner selling the land to the developer and purchaser of the site.

8. A small pond should be graded in the southeast corner of the site to contain flows prior to the construction of Inlet 12.
   An interim grading plan has been provided with this letter to show diversion of the noted flows to Pond 5. Completion of the berm that is intended to screen the development from the residential subdivision to the south will be required upon installation of the proposed storm drain in Los Volcanes.

9. It is not clear how long it will take to approve Mr. Easterling' s revised drainage report as it was modeled in HEC-HMS which requires additional research. Hydrology requested Mr. Easterling to submit a parallel report in AHYMO for comparison. It is not clear if he will submit it. It may be prudent to submit your own revised DMP in AHYMO to expedite the Site Plan for Building Permit approval process.
   It is our understanding that the revised Mini DMP being prepared by Easterling's office will be submitted tomorrow to your office. Per discussions with their engineer, included will be an explanation/summary of how their HEC-HMS modeling concurs with specific hydraulic information provided by Smith Engineering in their drainage plan prepared as part of the City's Transit Facility project. Tierra West is in agreement that this should be sufficient for a comparison of the two computation methods and that a revised DMP in AHYMO should not be required.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

Ronald R. Bohannan, P.E.

Enclosure/s

cc: Chuck Easterling
Tom Keleher

JN: 2013075
RRB/vc/jf Z:\2013\2013075 Daytona Blvd Distribution Center\Working Documents\2013075 14-06-11 FedEx Ground response to comments Curtis Cherne.docx

Interim (Rough Graded) FedEX Ground Drainage Calculations

		This table is based on the COA DPM Section 22.2, Zone: 1											
BASIN	Area	Area	Land Treatment Percentages				Q(100)	Q(100)	WT E	$V(100)_{360}$	$V(100)_{1440}$	$V(100)_{10day}$	Comments
	(SQ FT)	(AC)	A	B	C	D	(cfs/ac)	(CFS)	(inches)	(CF)	(CF)	(CF)	
C-1D	286213	6.57	100.0%	0.0%	0.0%	0.0%	1.29	*8.48*	*0.44*	*10494*	*10494*	*48656*	To Pond 5 (Private)
C-2D 1	539915.7	12.39	100.0%	0.0%	0.0%	0.0%	1.29	*15.99*	*0.44*	*19797*	*19797*	*91786*	To Pond 5 (Private)
C-2D 2	952736	21.87	100.0%	0.0%	0.0%	0.0%	1.29	*28.21*	*0.44*	*34934*	*34934*	*161965*	To Pond 5 (Private)
D-1	95167	2.18	0.0%	0.0%	100.0%	0.0%	2.87	*6.27*	*0.99*	*7851*	*7851*	*20540*	To Pond 5 (Private)
LV	95559	2.19	0.0%	0.0%	100.0%	0.0%	2.87	*6.30*	*0.99*	*7884*	*7884*	*20625*	To Pond 5 (Private)
P-5	66622	1.53	0.0%	0.0%	100.0%	0.0%	2.87	*4.39*	*0.99*	*5496*	*5496*	*14379*	To Pond 5 (Private)
TOTAL	2036213	46.75						*69.64*		*86456*	*86456*	*357951*	

0.2 ac-ft

CITY OF ALBUQUERQUE

July 7, 2014

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

Re: FedEx Ground Drainage Report and Conceptual Grading Plan and Drainage Plan Engineer's Stamp Date 7-3-14 (K09D026A)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 7-3-14, the above referenced report and plan are approved for Site Plan for Building Permit action by the DRB:

The plan was not reviewed at the building Permit level; however, when submitting for Building Permit the following items should be addressed:

1. The berm at the edge of pavement should be removed as it is in the clear zone.
2. The sedimentation pond near Bruckner's should be proposed out of the ROW. The pond should be positioned so that the street can be constructed without having to change the proposed pond.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Hydrology
Planning Dept.

Copy: e-mail

Grading & Drainage 20130075

City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEX Ground City Drainage #: K09 D026A

DRB#: EPC#: 14EPC-40012 (Project #1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13, and Tract 14A, Town of Atrisco Grant Unit 5

City Address: Not yet assigned

Engineering Firm: Tierra West, LLC Contact: Jeffrey T. Wooten, P.E.

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: jwooten@tierrawestllc.com

Owner: I-40 South, LLC c/o Thomas Keleher Contact: Thomas Keleher

Address: PO Box AA, Albuquerque, NM 87103

Phone#: 505-346-4646 Fax#: E-mail: tfk@keleher-law.com

Architect: Castles Design Group Contact: Larry L. Christian

Address: 3801 Kirby Drive, Suite 600, Houston, TX 77098

Phone#: 713-664-7974 Fax#: E-mail: lchristian@castlesdesigngroup.com

Surveyor: Precision Surveys Contact: Will Plotner

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-856-5700 Fax#: E-mail: larry@presurv.com

Contractor: W&G Construction Company Contact: Chris White

Address: 470 Central Road, Fredericksburg, VA 22401

Phone#: 540-368-2688 Fax#: E-mail: cwhite@wandgconstruction com

TYPE OF SUBMITTAL:

X DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
X GRADING PLAN
X EROSION & SEDIMENT CONTROL PLAN (ESC)
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
X S. DEV. FOR BLDG PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM)
___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
X GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
X ESC PERMIT APPROVAL - ?
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED MAY 20 2014 LAND DEVELOPMENT SECTION

RECEIVED JUL 03 2014 LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: 7/3/14 ___ Yes X No ___ Copy Provided

DATE SUBMITTED: May 14, 2014 REVISED [redacted] By: Vincent Carrica, P E

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**. Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan**: Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE

June 24, 2014

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

Re: FedEx Ground Drainage Report and Conceptual Grading Plan and Drainage Plan Engineer's Stamp Date 5-19-14 (K09D026A)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 5-20-14, the above referenced report and plan cannot be approved for Site Plan for Building Permit action by the DRB until the following comments are addressed:

1. The area in the existing conditions that drains to this site appears to be closer to 37 ac, not the 12.5 ac in the report. Show the extents of the offsite basin on a plate.
2. The report references that routing flows from the site and upland basin is by a report prepared by Easterling Consultants, LLC. This report is not approved and uses HEC-HMS. There are some fundamental issues that still need to be worked out. This report should also reference the Master Drainage Plan for the Westside Transit Facility prepared by Smith Engineering February 2001.
3. Where does the report provide the flow and volume for the site?
4. Per Easterling and Consultants engineer the FedEx pond (ex. Pond 5 Unser Diversion) is allowed 10 cfs. This should be stated in the report.
5. Provide calculations that show the required pond volume.
6. This report should size the storm drain in Los Volcanos Rd. How far west is the storm drain to be extended in Los volcanos Rd?
7. Why is there an interim Post Developed basin Table? Why not just existing and developed?
8. The easement for floodplain and drainage works is to be vacated.
9. A slope easement is required on Tract 6.
10. Add a LOMR to the infrastructure list with a value of $30,000.

The plan was not reviewed at the building Permit level; however, when submitting for Building Permit the following items should be addressed:

11. The outlet structure for Pond 5 is to be modified as the existing 8" holes easily plug. Hydrology would like a ported riser design. In addition, provide the as-builts for the outlet structure
12. The offsite area that historically drained to Pond 5 in the existing condition should be accommodated by inlet 9.

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

CITY OF ALBUQUERQUE

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Hydrology
Planning Dept.

PO Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

CITY OF ALBUQUERQUE

June 6, 2014

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

Re: FedEx Ground Overall Grading and Drainage Plan
Engineer's Stamp Date 5-19-14 (K09D026A)

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 5-20-14, the above referenced plan cannot be approved for Grading Permit until the following comments are addressed:

1. Hydrology understands that you wish to begin moving dirt prior to DRB and revised DMP (Easterling and Associates, 2014) approvals. This is acceptable as long as following comments are addressed.
2. Does the Los Volcanos storm drain have capacity to accept diverted flows?
3. Show/state that Pond 5 has the capacity to accept flows from the graded site as Land Treatment C. Rough calculations show that it has capacity.
4. Is Pond 5 to be used for sediment control as part of the SWPPP? If so, will you be plugging the 3-8" pipes?
5. It is acceptable to the Dept. of Municipal Development to grade in Pond 5 if it is privately maintained. The City's agreement with AMAFCA will have to be superseded. This could occur later in the process with acknowledgement of maintenance responsibility by the property owner.
6. A Floodplain Development Permit is required prior to grading. Hydrology will e-mail one.
7. This plan proposes grading and construction of storm drain on an adjacent parcel. Is the adjacent parcel B12? Does the west lot line currently exist in this location? Written permission from the adjacent land owner is required. An easement may be required.
8. A small pond should be graded in the southeast corner of the site to contain flows prior to the construction of Inlet 12.
9. It is not clear how long it will take to approve Mr. Easterling's revised drainage report as it was modeled in HEC-HMS which requires additional research. Hydrology requested Mr. Easterling to submit a parallel report in AHYMO for comparison. It is not clear if he will submit it. It may be prudent to submit your own revised DMP in AHYMO to expedite the Site Plan for Building Permit approval process.

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

Sincerely,

Curtis Cherne, P.E.
Principal Engineer, Hydrology
Planning Dept.

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEX Ground City Drainage #: K09D026A

DRB#: EPC#: 14EPC-40012 (Project #1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13, and Tract 14A, Town of Atrisco Grant Unit 5

City Address: Not yet assigned

Engineering Firm: Tierra West, LLC Contact: Jeffrey T. Wooten, P.E.

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: jwooten@tierrawestllc.com

Owner: I-40 South, LLC c/o Thomas Keleher Contact: Thomas Keleher

Address: PO Box AA, Albuquerque, NM 87103

Phone#: 505-346-4646 Fax#: E-mail: tfk@keleher-law.com

Architect: Castles Design Group Contact: Larry L. Christian

Address: 3801 Kirby Drive, Suite 600, Houston, TX 77098

Phone#: 713-664-7974 Fax#: E-mail: lchristian@castlesdesigngroup.com

Surveyor: Precision Surveys Contact: Will Plotner

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-856-5700 Fax#: E-mail: larry@presurv.com

Contractor: W&G Construction Company Contact: Chris White

Address: 470 Central Road, Fredericksburg, VA 22401

Phone#: 540-368-2688 Fax#: E-mail: cwhite@wandgconstruction.com

TYPE OF SUBMITTAL:

X DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
X GRADING PLAN
X EROSION & SEDIMENT CONTROL PLAN (ESC)
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
___ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM)
___ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
X GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION

___ SO-19 APPROVAL
X ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

RECEIVED
MAY 20 2014
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes X No ___ Copy Provided

DATE SUBMITTED: May 14, 2014 By: Vincent Carrica, P.E.

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, anc scope to the proposed development defines the degree of drainage detail One or more of the followng levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

CITY OF ALBUQUERQUE

PLANNING DEPARTMENT – Development & Building Services

April 23, 2014

Richard J. Berry, Mayor

Ronald Ray Bohannan, P.E.
Attn: Jeff Wooten, P.E.
Tierra West, LLC
5571 Midway Park Place NE
Albuquerque, New Mexico 87109

RE: **FedEx® Ground Facilities** - Daytona Road NW File **K09-D026A**
Town of Atrisco Grant, Unit 5, Portion of Tract 12, Tract 13 & Tract 14A
Conceptual Grading & Drainage Plan (not Sealed) Plan Dated: 3/31/13

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 3/31/14, the above referenced plan cannot be approved for Preliminary Plat action by the DBR, nor a Grading or Building Permit.

This submittal was initially made in support of action by the EPC, which has since been approved by the EPC. The Proposed Hydrologic Conditions are dependant upon significant time and fiscal efforts charged to AMAFCA, which have not been enacted. This submittal does not contain sufficient drainage analysis for approval. No further review will be made at this time. (See notes on page 2)

Since the disturbed area on this site exceeds 1.0 acre, an Erosion and Sediment Control (ESC) Plan, prepared by a NM PE and approved by the City's Stormwater Engineer, will be required, prior to Hydrology approval of a Building Permit or Work Order.

If you have any questions, please contact me at grolson@cabq.gov, or phone 505-924-3695.

Sincerely,

4/23/14

Gregory R. Olson, P.E.
Senior Engineer

Orig: Drainage file K09-D026A
c.pdf Addressee via Email: RRB@TierraWestLLC.com
Jeff Wooten: JWooten@TierraWestLLC.com

PO Box 1293
Albuquerque
NM 87103
www.cabq.gov

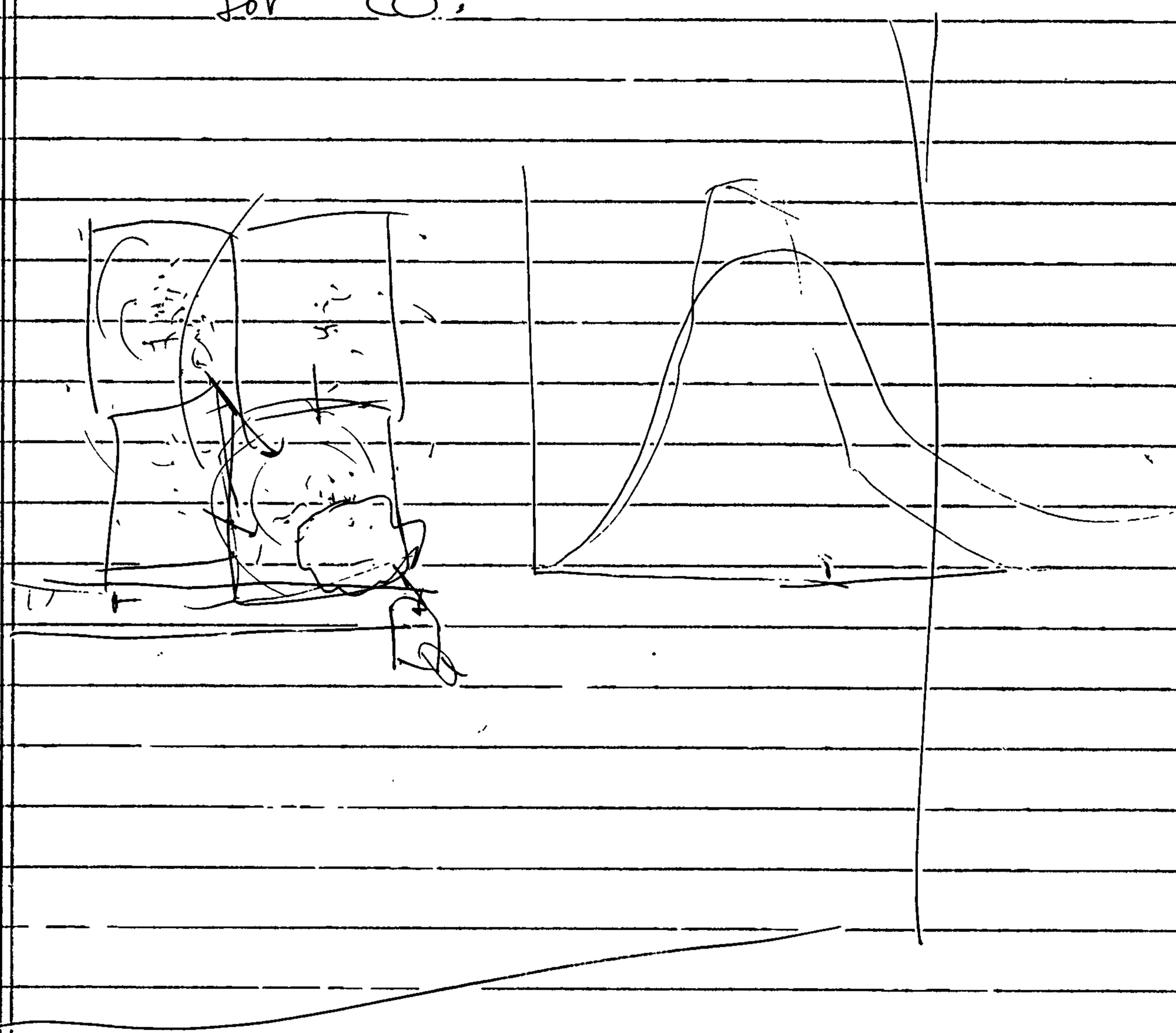
Greg's Review Notes on 3/31/2014 plan by Tierra West

Following is a summary of some notes that I made during this brief review. This list is not comprehensive, but may be helpful in preparation of any future Grading and Drainage submittal for this site:

1. The Line types used for existing contours on the plan are inconsistent with those shown in the Legend.
2. Clarify on the plan what is pavement, structures (pads), landscaping, etc.
3. Indicate where roof drainage will discharge.
4. Label slopes >10% to aid in quantifying land treatment type percentages.
5. Offsite flows from the west currently sheet flow onto the west slope of this site, but the 42" storm drain crossing the south side of the site suggests that flows are to be diverted to the SW corner of this site. Provide details of any proposed diversion. Coordinate and document approval of adjacent landowner.
6. Label the inlet(s) in the pond south of the building. Does this pond include water quality facilities?
7. Effective May 12, 2014, the revised Drainage Ordinance will be enforced, including erosion and sediment control measures, and management of the 90th percentile storm event (defined as the first 0.44" or runoff).
8. The Existing Conditions section mentions 12.5 acres of offsite contribution, but the Proposed Conditions talk about 25 acres flowing through the site. Please clarify this difference.
9. The results of re-analysis of the Unser Diversion Pond System by Easterling Consultants, LLC must be cited, and appropriate findings included in this plan.
10. The Proposed conditions state that AMAFCA has committed to significant upstream revisions and a LOMR from FEMA, which have not been confirmed. This plan is contingent upon those commitments, and cannot be approved for Building Permit until the LOMR is approved by FEMA.
11. An approved ESC plan is required for this site, prior to Building Permit approval.

Greg Olson, 4/23/14 4/23

(1) plat approval w/ vacation in place
(2) site plan approval
(3) slope easement on tract 6 for BCLS permit
(4) vacation of ~~slope ease.~~ floodplain works for CO?



Cherne, Curtis

From: Cherne, Curtis
Sent: Monday, June 23, 2014 8:29 AM
To: 'Vince Carrica'; 'rrb@tierrawestllc.com'
Cc: Biazar, Shahab; Cloud, Jack W.
Subject: FedEx draiagne report
Attachments: K09D026_DMP_cmmt2.pdf

Ron/Vince,
I spent most of Friday reviewing drainage reports in support of the FedEx Site Plan for Building Permit application for DRB.
The first few hours were going through Mr. Easterling's report. One issue that may take some time is the storm they were using produced peak flows that were less than half of the Smith Daytona facility report. Therefore, I wrote a comment letter that there is work to be done on the storm prior to proceeding. I have attached a copy of the letter.

Then I spent the rest of the day going through the Smith Daytona Facility report. It looks like the choke point is 153 cfs going into pond 4. Inputs into this analysis point are Pond 6, Pond 5 (FedEx), Los Volcanos Rd and the land west of FedEx that drain to Pond 4.
What I haven't finished looking at is the timing between the flows from Pond 6 and the flows that will enter the pond directly from Los Volcanos Rd. and the land west of FedEx.
Chris Naidu mentioned that the flow form FedEx out of Pond 5 will be held to 10 cfs. The maximum out of pond 6 is 93 cfs. So depending on the timing, will control the flow rates out of the property west of FedEx. Chuck's report restricts these properties to 2.25 cfs/ac which is too low considering the type of development that is proposed.

After I get ready for DRB this week, I will write a letter on your FedEx submittal collecting all this as well as providing comments on what is currently submitted.

I feel the best way to support the FedEx development is for your drainage report to fit inside the framework of the Smith Daytona Facility report.

Curtis

85% D C - 2D.1 12.4ac

15% B

Zone 1

$\frac{40.54\,ac}{} \Big| \frac{4.37\,cfs}{ac} = 46.06$

1.86 ac

$\frac{1.86\,ac}{} \Big| \frac{2.03\,cfs}{ac} = \frac{3.78}{50\,cfs}$ vs 3

85% D C - 1D

15% B 6.6 ac

$\frac{5.61\,ac}{} \Big| \frac{4.37\,cfs}{ac} = 24.5$

$\frac{1\,ac}{} \Big| \frac{2.03}{} = \frac{2.03\,cfs}{27\,cfs}$ vs 17

cfs 50

+27

77 cfs

f) ac a rel 4 cfs/ac = 8 cfs = 85 cfs

Say we let pump 6 run at 93 cfs

pump 5 max 10 cfs

= 103

Change pump 5 outlet weir to ~ 2' below

top of pump

153 − 103 = 50 cfs from reed

~ equal to 51.8 cfs

in DMP

View call pm

Fire 1

1.29 203 287 4.37

Slow cfs 1/10

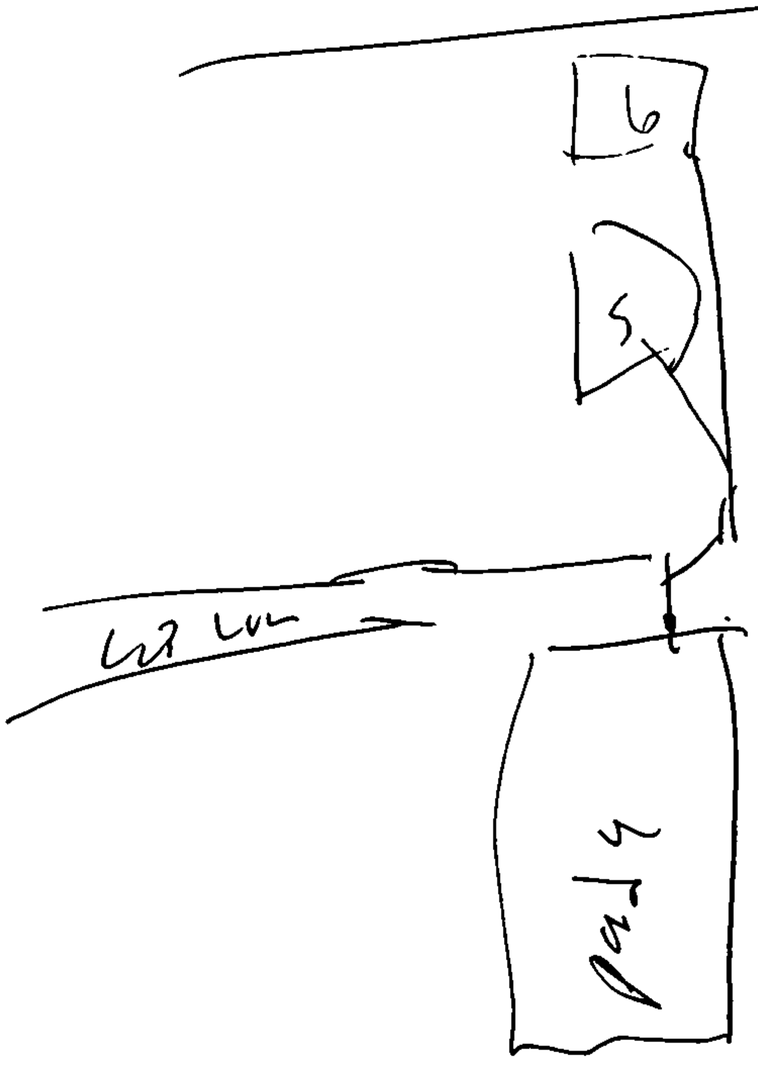
- 8 shun

43 cfs

19 cc

2.3 cfs/ac

52 x 70 = 182 < 142



flows for

6 + 5 + 2v ≤ 153 cfs

5 is 10 cfs

6 + 2v = 143 cfs

pad 6 =

$A = \pi r^2$

$= \pi (.35')^2$

$= .35\ ft^2 \times 3 = 1.04\ ft^2$

Orifice

$Q = Ca\sqrt{2gh}$

$= .6(1.04)\sqrt{64.4 \times \cancel{8ft}}$

227

$= 19\ \cancel{cfs}$ overtops weir at 6'

should weir at top of box be used as emergency spillway

LEGEND:

- FLOW DIRECTION
- O-GE BASIN IDENTIFICATION
- DRAINAGE BASIN BOUNDARY
- STORM DRAIN LINE W/ MANHOLE
- INLET
- EXISTING STORM DRAIN
- EXISTING STORM DRAIN INLET
- EXISTING CULVERT

GENERAL NOTE:

1. THE STORM DRAIN SHOWN ON THIS MAP IS DESIGNED FOR FULLY DEVELOPED CONDITIONS INCLUDING EXISTING OFFSITE FLOWS IN THE MIREHAVEN ARROYO "B"

N

100 0 200' 400'
SCALE 1" = 200'

DWL ARCHITECTS
DWL ARCHITECTS & PLANNERS, INC.
OF NEW MEXICO
303 CENTRAL AVE. S.E.
WEST COURTYARD
ALBUQUERQUE, NEW MEXICO
87102
Fax (505) 243-6189
Voice (505) 243-6303
E-MAIL DWLINC@NTC.COM

Smith Engineering Company
A Full Service Engineering Company
6400 Uptown Boulevard, N.E. Suite 500E Albuquerque, New Mexico 87110

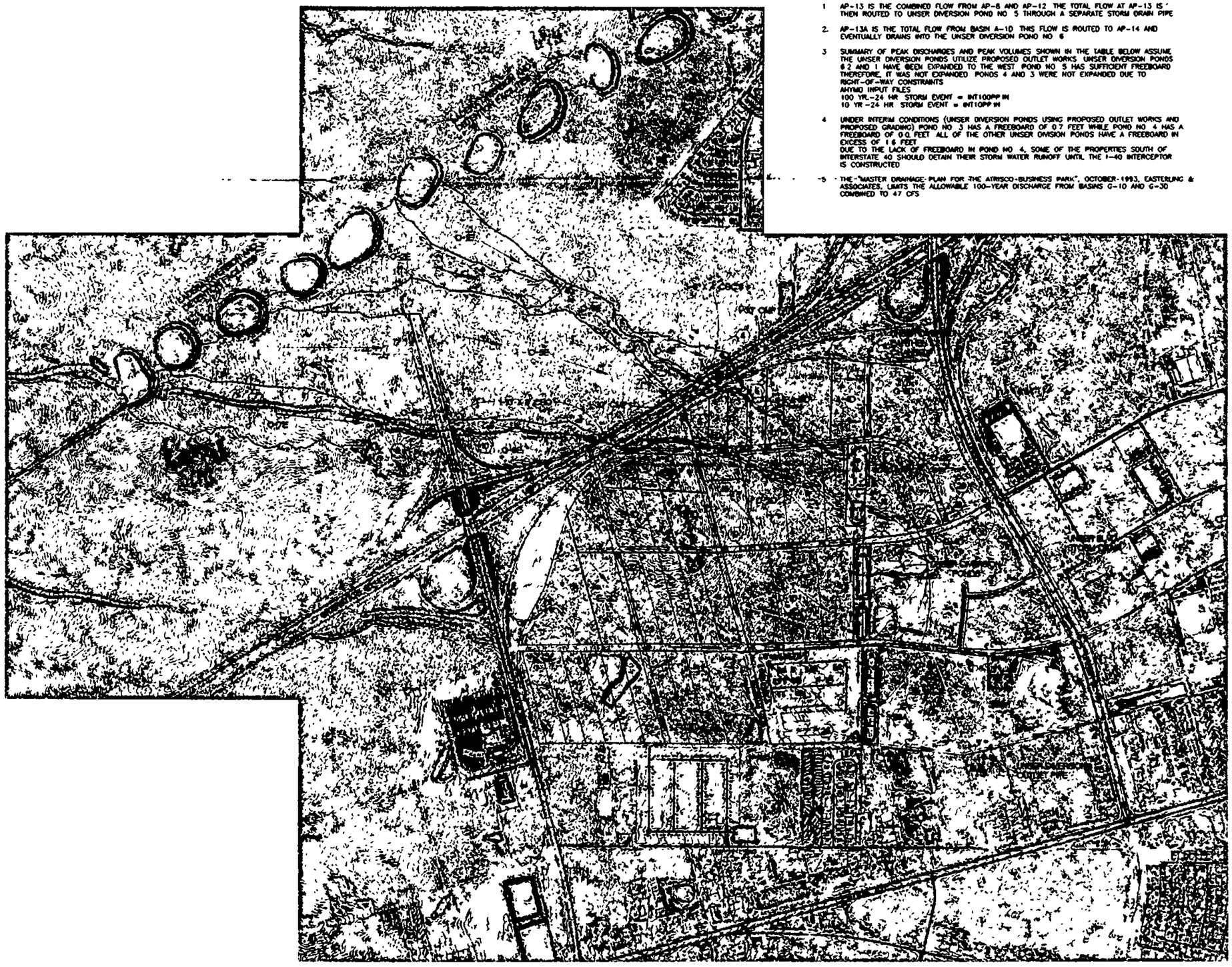
WEST SIDE TRANSIT FACILITY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
HYDROLOGY DEVELOPMENT GROUP

DAYTONA ROAD STORM DRAIN MASTER PLAN

PROJECT NUMBER	DRAWN BY	DESIGNED BY	DATE	MAP NO
100300	EAD	DLA	2/01	5

Z:\Civil_Data\100300 West Side Transit Facility\Drainage Report\DAYTONA\Sheet.dwg Tue Feb 06 17:12:32 2001



GENERAL NOTES:

1. AP-13 IS THE COMBINED FLOW FROM AP-8 AND AP-12. THE TOTAL FLOW AT AP-13 IS THEN ROUTED TO UNSER DIVERSION POND NO 5 THROUGH A SEPARATE STORM DRAIN PIPE
2. AP-13A IS THE TOTAL FLOW FROM BASIN A-10 THIS FLOW IS ROUTED TO AP-14 AND EVENTUALLY DRAINS INTO THE UNSER DIVERSION POND NO 6
3. SUMMARY OF PEAK DISCHARGES AND PEAK VOLUMES SHOWN IN THE TABLE BELOW ASSUME THE UNSER DIVERSION PONDS UTILIZE PROPOSED OUTLET WORKS UNSER DIVERSION PONDS 6 2 AND 1 HAVE BEEN EXPANDED TO THE WEST POND NO 5 HAS SUFFICIENT FREEBOARD THEREFORE, IT WAS NOT EXPANDED PONDS 4 AND 3 WERE NOT EXPANDED DUE TO RIGHT-OF-WAY CONSTRAINTS
   AHYMO INPUT FILES
   100 YR.-24 HR STORM EVENT = INT100PP IN
   10 YR -24 HR STORM EVENT = INT10PP IN
4. UNDER INTERIM CONDITIONS (UNSER DIVERSION PONDS USING PROPOSED OUTLET WORKS AND PROPOSED GRADING) POND NO 3 HAS A FREEBOARD OF 0 7 FEET WHILE POND NO 4 HAS A FREEBOARD OF 0 0 FEET ALL OF THE OTHER UNSER DIVISION PONDS HAVE A FREEBOARD IN EXCESS OF 1 6 FEET
   DUE TO THE LACK OF FREEBOARD IN POND NO 4, SOME OF THE PROPERTIES SOUTH OF INTERSTATE 40 SHOULD DETAIN THEIR STORM WATER RUNOFF UNTIL THE I-40 INTERCEPTOR IS CONSTRUCTED
5. THE "MASTER DRAINAGE PLAN FOR THE ATRISCO BUSINESS PARK", OCTOBER 1993, EASTERLING & ASSOCIATES, LIMITS THE ALLOWABLE 100-YEAR DISCHARGE FROM BASINS G-10 AND G-30 COMBINED TO 47 CFS

LEGEND:

- FLOW DIRECTION
- O-3E BASIN IDENTIFICATION
- (4) ANALYSIS POINT
- EXISTING CULVERT

SUMMARY OF PEAK DISCHARGES AND PEAK VOLUMES

ANALYSIS POINT	Q(10) (24hr) (cfs)	V(10) (24 hr) (ac ft.)	Q(100) (24 hr) (cfs)	V(100) (24 hr) (ac ft.)
1	6	0 3	42	1 6
2	7	0 4	76	2 6
3	8	0 4	82	2 7
4	2	0 1	8	0 2
5	3	0 1	10	0 3
6	10	0 5	89	3 0
7	14	0 7	83	2 8
8	15	0 8	36	2 4
9	13	0 6	71	2 9
10	27	1 3	93	4 1
11	28	1 5	114	5 1
12	32	1 8	123	5 5
13	46	2 5	158	7 9
14	36	1 6	59	2 6
15	86	4 1	176	8 8
16	122	5 9	230	11 7
17	18	0 8	29	1 3
18*	141	6 7	259	13 1
19**	45	2 6	156	8 0
20	14	0 6	24	1 0
21	82	3 6	142	6 1
22***	104	12 9	238	27 3
23	56	2 4	99	4 2
24****	82	15 2	138	31 5
25	39	1 7	64	2 9
26	66	3 0	108	4 9
27	116	5 2	192	8 7
28	121	5 5	197	9 1
29*****	143	20 7	234	40 6
30	46	2 1	82	3 5
31******	50	21 7	119	43.2
32******	36	1 6	56	2 5
33	5	0 2	8	0 3
34******	49	2 4	78	3 9
35	10	0 4	16	0 7

* TOTAL FLOW INTO UNSER DIVERSION POND NO 6

** TOTAL FLOW INTO UNSER DIVERSION POND NO 5

*** TOTAL FLOW INTO UNSER DIVERSION POND NO 4

**** TOTAL FLOW INTO UNSER DIVERSION POND NO 3

***** TOTAL FLOW INTO UNSER DIVERSION POND NO 2

****** TOTAL FLOW INTO UNSER DIVERSION POND NO 1

******* SEE GENERAL NOTE 5

N

500' 250' 0 500' 1000'

SCALE 1" = 500'

DWL ARCHITECTS

DWL ARCHITECTS & PLANNERS, INC.

Smith Engineering Company

A Full Service Engineering Company

WEST SIDE TRANSIT FACILITY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
HYDROLOGY DEVELOPMENT GROUP

DEVELOPED INTERIM CONDITIONS DRAINAGE AREA MAP

PROJECT NUMBER	DRAWN BY	DESIGNED BY	DATE	MAP NO
100300	EAD	DLA	2/01	3

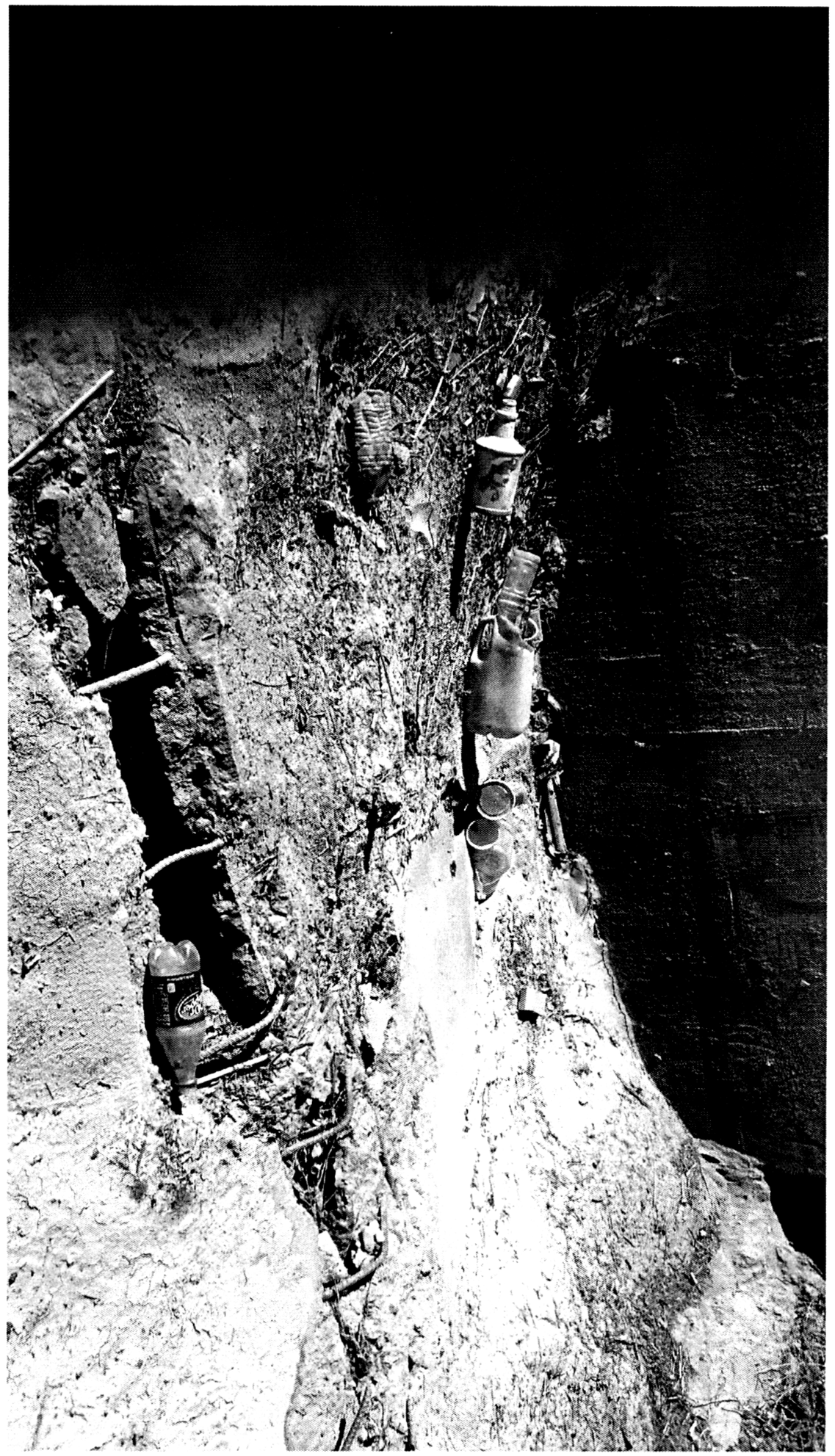
Cherne, Curtis

From: Cherne, Curtis
Sent: Friday, June 06, 2014 8:22 AM
To: 'Ronald Bohannan'; 'Chuck Easterling'
Cc: Biazar, Shahab
Subject: pond 5 outlet structure
Attachments: unser-pond6-slab-lift.jpg

Good morning,
I went out to the diversion ponds yesterday and attached a photo of the Pond 6 outlet. A parallel can be drawn to the Pond 5 outlet structure after the FedEx site is developed. For this reason I think the pond 5 outlet structure should be replaced with a ported riser structure.

We could keep the discharge rating curve the same as in Chuck's proposal. Chuck's report proposed to modify the stage-discharge curve by proposing to change out the 3 -8" holes to one 12" hole.

Curtis



Cherne, Curtis

From: Cherne, Curtis
Sent: Monday, June 02, 2014 11:26 AM
To: Gallegos, Wilfred A.
Cc: Biazar, Shahab
Subject: FW: 2013075 - Fedex Ground-pond maintenance
Attachments: Unser Diversion Ponds 1993.pdf

Wilfred,
Per the attached agreement the City is responsible for maintaining Unser Pond 5 in an AMAFCA easement. Recently, AMAFCA plugged the storm drain that allowed water to drain to pond 5 so that FedEx could use it as their private site pond. It seems some form of agreement is required to remove the maintenance responsibility, unless you wish to continue to maintain, for Pond 5 since it most likely will become private.

The grading plan for FedEx shows re-grading the pond
AMAFAC is granting FedEx a license to work in their easement until it is released.

Ron is pushing hard for Grading Permit.

Thanks,
Curtis

From: Mazur, Lynn [mailto:lmazur@amafca.org]
Sent: Friday, May 30, 2014 5:02 PM
To: Cherne, Curtis
Subject: RE: 2013075 - Fedex Ground

Yes. I knew that AMAFCA had constructed the ponds and the City maintained, but I had never seen the agreement. Here you go.

Lynn

From: Cherne, Curtis [mailto:CCherne@cabq.gov]
Sent: Friday, May 30, 2014 4:51 PM
To: Mazur, Lynn
Subject: RE: 2013075 - Fedex Ground

Lynn,
I was not aware that the City maintained pond 5. I read the easement and saw that it was to AMAFCA. I am not aware of an agreement from 1993.

Curtis

From: Mazur, Lynn [mailto:lmazur@amafca.org]
Sent: Friday, May 30, 2014 2:35 PM
To: Ron Bohannan
Cc: Lovato, Jerry; Vince Carrica; Cherne, Curtis; Willis, Jeffrey; cwhite@wandgconstruction.com
Subject: RE: 2013075 - Fedex Ground

After researching and reviewing this more, here is what I think needs to happen:

1. AMAFCA will issue a Temporary Construction License to the contractor for work in the AMAFCA slope easement. Jerry can sign that, and the contractor can start grading work.
2. I will present consideration of a private storm drain license to the Board of Directors at the June 26 meeting. We can allow Pond 5 improvements, but the storm drain and manholes cannot be installed until the license is approved by the Board.

Curtis,
Are you aware that the City maintains the Unser Diversion system, including Pond 5? AMAFCA constructed it and was granted the slope easement, but as part of the 1993 agreement, the City assumed maintenance 3 years after completion, probably around 1999.

Albuquerque Metropolitan Arroyo
Flood Control Authority
Lynn M. Mazur, P.E., C.F.M.
Development Review Engineer
Office: (505) 884-2215
Mobile: (505) 362-1273
Web: www.amafca.org

The unauthorized disclosure or interception of e-mail is a federal crime. See 18 U.S.C. § 2517(4). This e-mail is intended only for the use of those to whom it is addressed and may contain information which is privileged, confidential and exempt from disclosures under the law. If you have received this e-mail in error, do not distribute or copy it. Return it immediately with attachments, if any, and notify me by telephone at (505) 884-2215.

From: Ron Bohannan [mailto:rrb@tierrawestllc.com]
Sent: Friday, May 30, 2014 9:07 AM
To: Mazur, Lynn
Cc: Lovato, Jerry; Vince Carrica; Curtis Cherne; Willis, Jeffrey; cwhite@wandgconstruction.com
Subject: FW: 2013075 - Fedex Ground

Lynne here is a copy of the grading plan and the Site Development Plan for Building permit as requested. As soon as you get those agreements in place please send them to myself and Chris White who is the general contractor on the site for the project. I believe that Chris will be subcontracting that work out to a local contractor (I believe Franklin's) who will be doing the actual work.

Please keep me in the loop.

Thanks

Ronald R. Bohannan, P.E.
President
(WOBE)
Tierra West LLC
5571 Midway Park Place NE
Albuquerque, NM 87109
505-858-3100 office
800-245-3102
www.tierrawestllc.com

PRIVILEGED AND CONFIDENTIAL

The information contained in this electronic mail message is confidential, may be privileged, and is intended only for the use of the individual(s) named above or their designee. If you are not the intended recipient of this message, you are

Cherne, Curtis

From: Mazur, Lynn <lmazur@amafca.org>
Sent: Friday, May 30, 2014 2:35 PM
To: Ron Bohannan
Cc: Lovato, Jerry; Vince Carrica; Cherne, Curtis; Willis, Jeffrey; cwhite@wandgconstruction.com
Subject: RE: 2013075 - Fedex Ground

After researching and reviewing this more, here is what I think needs to happen:

1. AMAFCA will issue a Temporary Construction License to the contractor for work in the AMAFCA slope easement. Jerry can sign that, and the contractor can start grading work.
2. I will present consideration of a private storm drain license to the Board of Directors at the June 26 meeting. We can allow Pond 5 improvements, but the storm drain and manholes cannot be installed until the license is approved by the Board.

Curtis,
Are you aware that the City maintains the Unser Diversion system, including Pond 5? AMAFCA constructed it and was granted the slope easement, but as part of the 1993 agreement, the City assumed maintenance 3 years after completion, probably around 1999.

Albuquerque Metropolitan Arroyo
Flood Control Authority
Lynn M. Mazur, P.E., C.F.M.
Development Review Engineer
Office: (505) 884-2215
Mobile: (505) 362-1273
Web: www.amafca.org

The unauthorized disclosure or interception of e-mail is a federal crime. See 18 U.S.C. § 2517(4). This e-mail is intended only for the use of those to whom it is addressed and may contain information which is privileged, confidential and exempt from disclosures under the law. If you have received this e-mail in error, do not distribute or copy it. Return it immediately with attachments, if any, and notify me by telephone at (505) 884-2215.

From: Ron Bohannan [mailto:rrb@tierrawestllc.com]
Sent: Friday, May 30, 2014 9:07 AM
To: Mazur, Lynn
Cc: Lovato, Jerry; Vince Carrica; Curtis Cherne; Willis, Jeffrey; cwhite@wandgconstruction.com
Subject: FW: 2013075 - Fedex Ground

Lynne here is a copy of the grading plan and the Site Development Plan for Building permit as requested. As soon as you get those agreements in place please send them to myself and Chris White who is the general contractor on the site for the project. I believe that Chris will be subcontracting that work out to a local contractor (I believe Franklin's) who will be doing the actual work.

Please keep me in the loop.

Thanks

Ronald R. Bohannan, P.E.
President
(WOBE)
Tierra West LLC
5571 Midway Park Place NE

Albuquerque, NM 87109
505-858-3100 office
800-245-3102
www.tierrawestllc.com

PRIVILEGED AND CONFIDENTIAL

The information contained in this electronic mail message is confidential, may be privileged, and is intended only for the use of the individual(s) named above or their designee. If you are not the intended recipient of this message, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. Any unauthorized interception of this message is illegal under the law. If you have received this message in error, please immediately notify me by return message or by telephone and delete the original message from your email system. Thank you.

From: David Yturralde
Sent: Friday, May 30, 2014 9:04 AM
To: Ron Bohannan
Subject: 2013075 - Fedex Ground

CITY OF ALBUQUERQUE

Planning Department
Transportation Development Services

June 25, 2015

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

Re: Fed Ex Ground Facility – 8000 Daytona Place, NW
Certificate of Occupancy – Transportation Development
Engineer's 5-19-14 (K09D026A)
Certification dated 06-23-15

Dear Mr. Bohannan,

Based upon the information provided in your submittal received 06-24-15, Transportation Development has no objection to the issuance of a Permanent Certificate of Occupancy. This letter serves as a "green tag" from Transportation Development for a Permanent Certificate of Occupancy to be issued by the Building and Safety Division.

If you have any questions, please contact me at (505)924-3630.

Sincerely,

Racquel M. Michel, P.E.
Senior Engineer, Planning Dept.
Development Review Services

c: File
CO Clerk

PO Box 1293
Albuquerque
New Mexico 87103
www.cabq.gov

City of Albuquerque

Planning Department

Development & Building Services Division

RAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV 02/2013)

Project Title: FedEx Ground City Drainage #: K09D026A

DRB#: EPC#: 14EPC-40012 (Project #1009982) Work Order#:

Legal Description: A portion of Tract 12, Tract 13, and Tract 14A, Town of Atrisco Grant Unit 5

City Address: 8000 Daytona Place, NW

Engineering Firm: Tierra West, LLC Contact: Ron Bohannan, P.E.

Address: 5571 Midway Park Place NE, Albuquerque, NM 87109

Phone#: 505-858-3100 Fax#: 505-858-1118 E-mail: rrb@tierrawestllc com

Owner: Bruce Puffer Contact: bruce.puffer@westco.us

Address.

Phone#: Fax#: E-mail:

Architect: Contact:

Address:

Phone#: Fax#: E-mail:

Surveyor: Cartesian Surveys, Inc Contact: Brain Martinez

Address: PO Box 44414, Rio Rancho, NM 87174

Phone#: 505-896-3050 Fax#: 505-891-0244 E-mail: Brian Martinez <cartesianbrian@aol com>

Contractor: W&G Construction Company Contact: Chris White

Address: 470 Central Road, Fredericksburg, VA 22401

Phone#: 540-368-2688 Fax#: E-mail: cwhite@wandgconstruction.com

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
___ DRAINAGE PLAN 1st SUBMITTAL
___ DRAINAGE PLAN RESUBMITTAL
___ CONCEPTUAL G & D PLAN
___ GRADING PLAN
___ EROSION & SEDIMENT CONTROL PLAN (ESC)
___ ENGINEER'S CERT (HYDROLOGY)
___ CLOMR/LOMR
___ TRAFFIC CIRCULATION LAYOUT (TCL)
___ ENGINEER'S CERT (TCL)
✓ ENGINEER'S CERT (DRB SITE PLAN)
___ ENGINEER'S CERT (ESC)
___ SO-19
___ OTHER (SPECIFY)

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

___ SIA/FINANCIAL GUARANTEE RELEASE
___ PRELIMINARY PLAT APPROVAL
___ S. DEV. PLAN FOR SUB'D APPROVAL
___ S. DEV. FOR BLDG. PERMIT APPROVAL
___ SECTOR PLAN APPROVAL
___ FINAL PLAT APPROVAL
___ CERTIFICATE OF OCCUPANCY (PERM)
✓ CERTIFICATE OF OCCUPANCY (TCL TEMP)
___ FOUNDATION PERMIT APPROVAL
___ BUILDING PERMIT APPROVAL
___ GRADING PERMIT APPROVAL
___ PAVING PERMIT APPROVAL
___ WORK ORDER APPROVAL
___ GRADING CERTIFICATION
___ SO-19 APPROVAL
___ ESC PERMIT APPROVAL
___ ESC CERT. ACCEPTANCE
___ OTHER (SPECIFY)

As varified

RECEIVED
JUN 24 2015
LAND DEVELOPMENT SECTION

WAS A PRE-DESIGN CONFERENCE ATTENDED: ___ Yes X No ___ Copy Provided

DATE SUBMITTED: June 23, 2015 By: Ron Bohannan, PE

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the followin

1. **Conceptual Grading and Drainage Plan**: Required for approval of Site Development Plans greater than five (5) acres and Sector Plans
2. **Drainage Plans**: Required for building permits, grading permits, paving permits and site plans less than five (5) acres
3. **Drainage Report**: Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more
4. **Erosion and Sediment Control Plan:** Required for any new development and redevelopment site with 1-acre or more of land disturbing area, including project less than 1-acre than are part of a larger common plan of development

gw

TIERRA WEST, LLC

5571 Midway Park Place NE Albuquerque, NM 87109
(505) 858-3100 Fax (505) 858-1118 1-800-245-3102
tierrawestllc.com

June 23, 2015

Ms. Racquel Michel, P.E.
Development and Building Services
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

RE: SITE PLAN FOR BUILDING PERMIT
CERTIFICATION FOR TEMPORARY CERTIFICATE OF OCCUPANCY
FED EX GROUND FACILITY, 8000 DAYTONA PLACE, NW

Dear Ms. Michel:

I, Ronald R. Bohannan, NMPE #7868, of the firm Tierra West LLC, hereby request approval of the Approved Site Plan for Building Permit for issuance of the Temporary Certificate of Occupancy for the project referenced above. This project is in substantial compliance as inspected on June 19, 2015, and is in accordance with the design intent of the Approved Site plan for Building Permit dated 5/19/14. This certification is submitted in support of the request for Temporary Certificate of Occupancy to allow vendors to occupy the completed building and complete minor site work punchlist items.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the traffic aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Enclosed, please find the information sheet and the as-built Site Plan for Building Permit. Therefore, we request approval of the as-built Site Plan for Building Permit for a Temporary Certificate of Occupancy.

If you have any questions or need additional information regarding this matter, please do not hesitate to contact me.

Sincerely,

RONALD R. BOHANNAN NEW MEXICO 7868 PROFESSIONAL ENGINEER

Ronald R. Bohannan, P.E.

Enclosure/s

RECEIVED JUN 24 2015 LAND DEVELOPMENT SECTION

JN: 2013075
RRB/VC/jg

Z:\2013\2013075 - Fed Ex Ground\Correspondence\2013075Racquel Michel Temp CO Letter 6-23-15.doc