CITY OF ALBUQUERQUE

Richard J. Berry, Mayor

September 27, 2016

Steven K. Morrow, P.E.
Molzen Corbin
2701 Miles Rd SE
Albuquerque, NM, 87106

RE: Aviation Center of Excellence
City of Albuquerque Aviation Department
Mass Grading & Drainage Plan
Engineer's Stamp Date 9-8-2016 (File: M16D024N)

Dear Mr. Morrow:

Based upon the information provided in your submittal received 9-9-2016, the above-referenced Grading and Drainage Plan is approved for Rough Grading and construction of the perimeter access road.

We understand that the Erosion and Sediment Control requirements will be addressed by the Aviation Department.

If there are as-builts generated (not a requirement for mass grading), please forward a copy for our file.

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

Sincerely,

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

Orig: Drainage file

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 09/2015)

Project Title: Aviation Center of Excellence Building Permit #: _____ City Drainage #: M16D024N

DRB#: 1000270 EPC#: 14EPC-40024 Work Order#: 751580

Legal Description: A portion of Tract A-1, Sunport Municipal Addition

City Address: Southeast Corner of Gibson Blvd. SE and Girard Blvd. SE

Engineering Firm: Molzen Corbin Contact: Steve Morrow

Address: 2701 Miles Road

Phone#: 505-242-5700 Fax#: _____ E-mail: smorrow@molzencorbin.com

Owner: City of Albuquerque Aviation Dept. Contact: Jim Hinde

Address: P.O. Box 1293

Phone#: _____ Fax#: _____ E-mail: JHinde@cabq.gov

Architect: _____ Contact: _____

Address: _____

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

Other Contact: _____ Contact: _____

Address: _____

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

Check all that Apply:

DEPARTMENT:

_X_ HYDROLOGY/ DRAINAGE
_____ TRAFFIC/ TRANSPORTATION
_____ MS4/ EROSION & SEDIMENT CONTROL

TYPE OF SUBMITTAL:

_____ ENGINEER/ ARCHITECT CERTIFICATION

_____ CONCEPTUAL G & D PLAN
_X_ GRADING PLAN
_____ DRAINAGE MASTER PLAN
_____ DRAINAGE REPORT
_____ CLOMR/LOMR

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

_____ OTHER (SPECIFY) _____

CHECK TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

_____ BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY

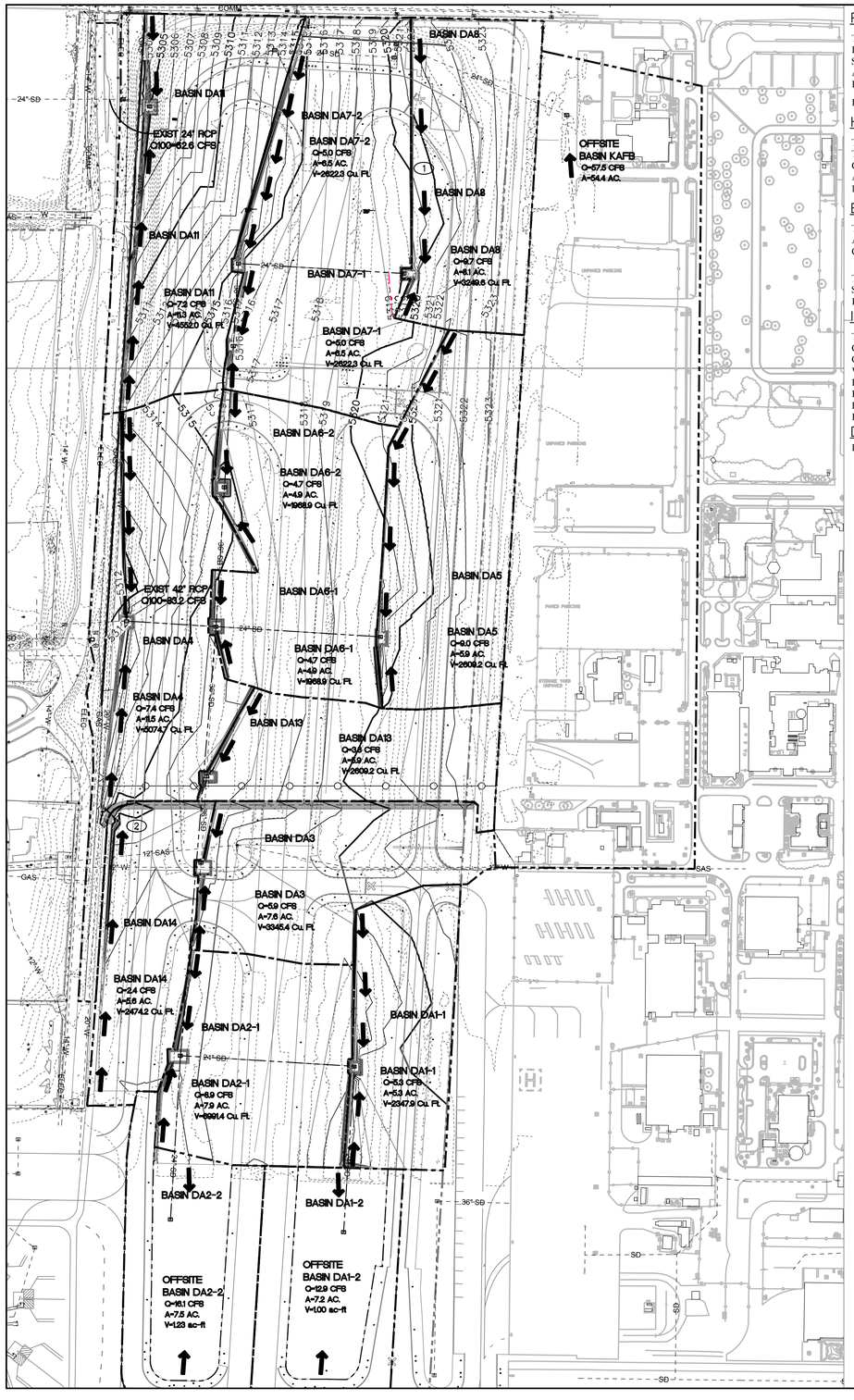
_____ PRELIMINARY PLAT APPROVAL
_____ SITE PLAN FOR SUB'D APPROVAL
_____ SITE PLAN FOR BLDG. PERMIT APPROVAL
_____ FINAL PLAT APPROVAL
_____ SIA/ RELEASE OF FINANCIAL GUARANTEE
_____ FOUNDATION PERMIT APPROVAL
_X_ GRADING PERMIT APPROVAL
_____ SO-19 APPROVAL
_____ PAVING PERMIT APPROVAL
_____ GRADING/ PAD CERTIFICATION
_____ WORK ORDER APPROVAL
_____ CLOMR/LOMR

_____ PRE-DESIGN MEETING
_____ OTHER (SPECIFY) _____

IS THIS A RESUBMITTAL?: _____ Yes _X_ No

DATE SUBMITTED: 9-08-16 By: Steve Morrow

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____



PROJECT DESCRIPTION & SITE LOCATION:

THE ALBUQUERQUE INTERNATIONAL SUNPORT IS PLANNING TO DEVELOP THE NORTHERN SECTION OF THE PROPERTY AS THE AVIATION CENTER OF EXCELLENCE (ACE). THE 116 ACRE SITE IS CURRENTLY OCCUPIED BY DECOMMISSIONED RUNWAY 17-35. LEASE "LOTS" ARE SHOWN FOR PLANNING PURPOSES AND ARE IN THE CONCEPTUAL STAGE OF DESIGN. THE LOTS MAY CHANGE IN SIZE AND SHAPE DEPENDING ON THE NEED OF FUTURE DEVELOPERS. THE NORTHERN SECTION OF THE SITE IS PLANNED FOR COMMERCIAL RETAIL/SERVICE, THE MIDDLE SECTION IS PLANNED FOR OFFICE DEVELOPMENT, AND SOUTHERN SECTION IS PLANNED FOR AVIATION AND/OR MANUFACTURING. THE DEVELOPMENT OF ACE IS DIVIDED INTO 4 PHASES: MASS DEMOLITION AND GRADING OF THE AREA WITHIN THE AIRFIELD, ROADWAY IMPROVEMENTS ALONG GIBSON BLVD AND GIRARD BLVD, UTILITY WORK FOR THE ENTIRE SITE, AND DEVELOPMENT OF THE INTERIOR ROADS. THE INDIVIDUAL PLANNED LOTS WILL BE DEVELOPED AS THEY ARE LEASED.

IT IS IMPORTANT TO NOTE THE LOT LINES SHOWN ARE ILLUSTRATIVE AND THERE WILL BE NO SUBDIVISION ACTIONS ON THE PROPERTY.

HYDROLOGIC CRITERIA:

THE HYDROLOGIC CRITERIA FOR THIS DRAINAGE REPORT WERE DETERMINED USING THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, CHAPTER 22. HYDROLOGIC CALCULATIONS WERE BASED ON THE 100YR/24HR STORM FOR THE SYSTEM CAPACITY, SEDIMENTATION PONDS WERE BASED ON THE 2YR/24HR STORM, AND PRECIPITATION DATA WAS COLLECTED FROM THE NOAA ATLAS SPECIFIC TO THE PROJECT LOCATION. TABLES LISTED BELOW SHOW ONSITE CONDITIONS, SUCH AS AREA, BASIN FLOW, INLET CAPACITY, AND SEDIMENTATION POND VOLUMES. HYDROLOGIC CHARACTERISTICS OF THE SITE ARE ALSO SHOWN. REFERENCES THROUGHOUT THIS DRAINAGE REPORT ARE MADE TO THE ALBUQUERQUE INTERNATIONAL AIRPORT STORM DRAINAGE MASTER PLAN (AIA DMP) DATED MAY, 1995. (DRAINAGE FILE AIA DMP - M16D024) AVIATION CENTER OF EXCELLENCE DRAINAGE MASTER PLAN (FILE: M16D024N, APPROVED 1-13-2016)

EXISTING CONDITIONS:

THE AREA OF THE IMPROVEMENTS IS APPROXIMATELY 116 ACRES, INCLUDING THE UNUSED AREA OF THE AIRFIELD AND THE SECTIONS OF GIBSON BLVD AND GIRARD BLVD. THE LOCATION IS UTILIZED FOR REMOTE PARKING FOR AIRCRAFT AND SPECIAL EVENTS. THE SITE HAS NOT CHANGED SINCE THE AIA DMP WAS ACCEPTED; CONSEQUENTLY, ALL THE EXISTING CONDITIONS FOR THE ACE DEVELOPMENT CAN BE ASSUMED TO BE THE SAME AS THE EXISTING CONDITIONS IN THE AIA DMP.

TWO BASINS FROM THE AIA DMP ENCOMPASS THE PROJECT SITE. REFER TO THE ATTACHED PAGES FROM THE AIA DMP FOR BASIN CHARACTERISTICS AND OUTFALLS. RUNOFF FROM THE EXISTING SITE IS COLLECTED IN THE SUBSURFACE STORM DRAINAGE SYSTEM AND INFIELD PONDS ONSITE. THE RUNOFF FROM THE PROJECT SITE WITHIN THE N17 BASIN DISCHARGES INTO THE YALE BLVD STORM SEWER SYSTEM AND OUTFALLS INTO THE KIRTLAND CHANNEL. THE PROJECT SITE WITHIN THE G17 BASIN DISCHARGES INTO A STORM SEWER SYSTEM BETWEEN THE DEVELOPED COMMERCIAL LOTS (WEST OF THE PROJECT SITE) AND INTO THE GIBSON BLVD STORM SEWER SYSTEM.

INTERIM CONDITIONS:

THE FIRST PHASE OF THE PROJECT WILL CONSIST OF DEMOLITION OF THE EXISTING RUNWAY AND MASS GRADING OF THE SITE. THIS GRADING AND DRAINAGE PLAN ESTABLISHES A STORMWATER MANAGEMENT PLAN FOR THE INTERIM CONDITION. THE INTERIM CONDITION WILL EXIST FROM THE TIME THAT MASS GRADING IS COMPLETED UNTIL THE SITE IS FULLY DEVELOPED. THE AREA OF THE INTERIM IMPROVEMENTS IS APPROXIMATELY 96 ACRES AND WILL CONSIST OF VACANT LAND FROM THE RESULTING REMOVAL OF AN OUT-OF-SERVICE RUNWAY AND TWO UNUSED TAXIWAYS. THE VACANT LAND WILL RESULT IN A CHANGE IN LAND USE AS THE SITE AREA WILL BE FAR MORE PERVIOUS. THE SITE WILL SEE MAJOR CHANGES TO TOPOGRAPHY AS DURING THE REMOVAL THE SITE WILL BE GRADED TO DRAIN FROM EAST TO WEST. IN ADDITION A BERM AND DITCH COMBINATION WILL BE USED TO DIRECT RUNOFF FROM THE VACANT LAND TO THE EXISTING INLETS OF THE DRAINAGE SYSTEM. SEDIMENTATION PONDS CAPABLE OF DETAINING THE 2 YEAR, 24 HOUR STORM WILL BE CONSTRUCTED AROUND THE INLET. THE INLETS WILL BE RAISED 1 FOOT ABOVE THE POND BOTTOM TO ALLOW FOR SEDIMENTATION PROTECTION OF THE DRAINAGE SYSTEM. AT THE SOUTHERN END OF THE SITE, THERE ARE TWO INLETS THAT ARE BEYOND THE GRADING LIMITS AND WILL BE UNDISTURBED. THESE INLETS HAVE ENOUGH AVAILABLE EXISTING POND AREA TO MAINTAIN A 100 YEAR, 24 HOUR STORM. THE SITE HAS NOT CHANGED SINCE THE AIA DMP WAS ACCEPTED; CONSEQUENTLY, ALL THE EXISTING CONDITIONS FOR THE ACE DEVELOPMENT CAN BE ASSUMED TO BE THE SAME AS THE EXISTING CONDITIONS IN THE AIA DMP.

DEVELOPED CONDITIONS:

REFER TO DRB APPROVED MATER DRAINAGE PLAN DATED 01/31/16 FOR DEVELOPED CONDITIONS.

ONSITE CONDITIONS				
BASIN ID	DRAINAGE AREA (AC)	100 YR, 24 HR PEAK DISCHARGE (CFS)	INLET ALLOW @ 1' WATER ELEV.	2YR, 24HR VOLUME (CU. FT.)
DA1–1	5.9	5.3	2'x2' = 12.0 CFS @ 1'	2,347.9
DA2–1	7.5	8.9	2'x2' = 12.0 CFS @ 1'	6,991.4
DA3	7.6	5.9	2'x2' = 12.0 CFS @ 1'	3,345.4
DA13	5.9	3.8	2'x2' = 12.0 CFS @ 1'	2,609.2
DA4	11.5	7.4	2'x2' = 12.0 CFS @ 1'	5,074.7
DA14	5.6	2.4	2'x2' = 12.0 CFS @ 1'	2,474.2
DA5	9.4	1.0	2'x2' = 12.0 CFS @ 1'	3,772.3
DA6–1	4.9	4.7	2'x2' = 12.0 CFS @ 1'	1,968.9
DA6–2	4.9	4.7	2'x2' = 12.0 CFS @ 1'	1,968.9
DA7–1	6.5	5.0	2'x2' = 12.0 CFS @ 1'	2,622.3
DA7–2	6.5	5.0	2'x2' = 12.0 CFS @ 1'	2,622.3
DA8	8.1	9.7	2'x2' = 12.0 CFS @ 1'	3,249.6
DA11	11.3	7.2	4'x5' = 60.0 CFS @ 1'	4,552.0
OFFSITE CONDITIONS				
DA1–2	7.2	12.9	2'x2' = 27.0 CFS @ 2'	
DA2–2	7.5	16.1	2'x2' = 27.0 CFS @ 2'	
KAFB	54.4	57.5	N/A	

CHANNEL CONDITIONS				
KEYED NOTE	CHANNEL TYPE	PEAK DISCHARGE (CFS)	CHANNEL Q ALLOW (CFS)	MINIMUM SLOPE
1	EARTHEN SWALE	9.7	16.0	0.25%
2	24" CMP	2.4	16.4	–

LEGEND

DRAINAGE BASIN BOUNDARY
PROJECT PHASE BOUNDARY
FLOW DIRECTION ARROW
DA 1 — DRAINAGE BASIN IDENTIFIER

N

0 50' 100' 200' 400'
1"=200'-0"

CAUTION:
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AS BUILT INFORMATION
CONTRACTOR / WORK STAKED BY / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY / DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
19-L16 – 3 1/4 INCH ALUMINUM DISC N=479188.5779, E=532270.698, EL.=5297.51
14-L17 – 3 1/4 INCH ALUMINUM DISC N=480697.724 E=534906.820
NAD 83 NAVD 88 – CENTRAL ZONE

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
STEVEN K. MORROW — NEW MEXICO — 13679 — REGISTERED PROFESSIONAL ENGINEER
9-8-16

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	RRD	DATE	MON DA, 199X
DRAWN BY	RRD	DATE	MON DA, 199X
CHECKED BY	SKM	DATE	MON DA, 199X

MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

DRAINAGE REPORT AND BASIN MAP
INTERIM CONDITION
MASS GRADING OF SITE

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
751580	M-16	G-007	31

GAB-007 8/29/16 1:1

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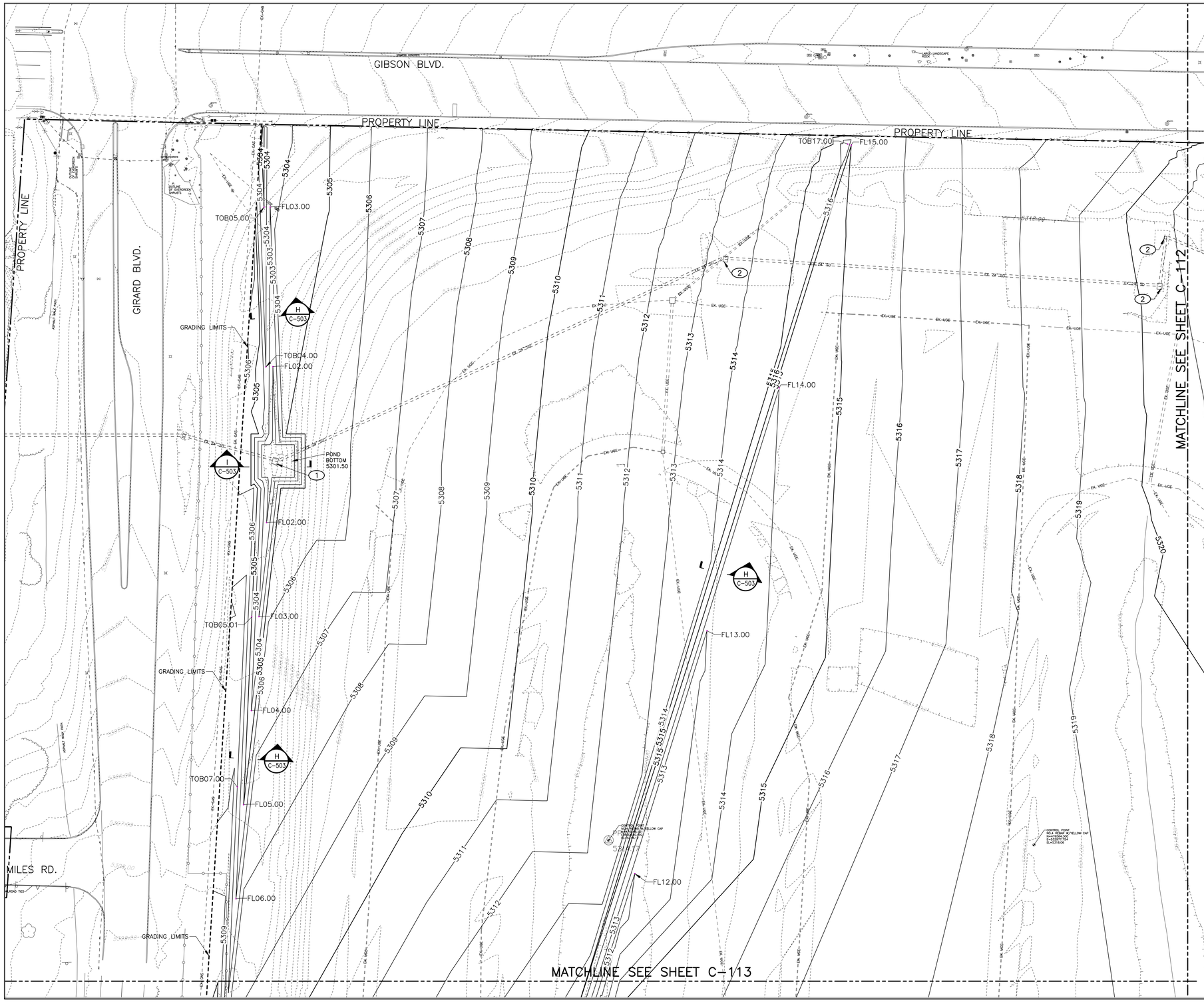


KEYED NOTES

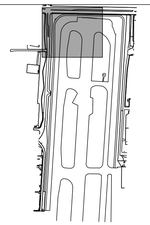
1. EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=03.51
2. EXISTING STORM DRAIN INLET TO BE ABANDONED IN PLACE. WELD STEEL PLATE OVER EXISTING GRATE AND ENSURE NO DIRT ENTERS THE INLET

GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

5320	EX. INDEX CONTOUR
5321	EX. INTERMEDIATE CONTOUR
5320	INDEX CONTOUR
5321	INTERMEDIATE CONTOUR
	EXISTING FENCE
	EXISTING SECURITY FENCE
	SUNPORT PROPERTY LINE
FL	FLOWLINE
TOB	TOP OF BERM
	GRADING LIMITS



KEY MAP

N

0' 5' 10' 20' 40' 80'
1"=40'-0"

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MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE
MICRO-FILM INFORMATION
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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
STEVEN K. MORROW
NEW MEXICO
13679
PROFESSIONAL ENGINEER
9-8-16

NO.	DATE	REMARKS	BY

REVISIONS

DESIGNED BY	SM/RD	DATE SEPT. 2016
DRAWN BY	JLB	DATE SEPT. 2016
CHECKED BY	SM	DATE SEPT. 2016

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 18 Of 31
751580	M-16	C-111

CAB-111 9/8/16 1:1

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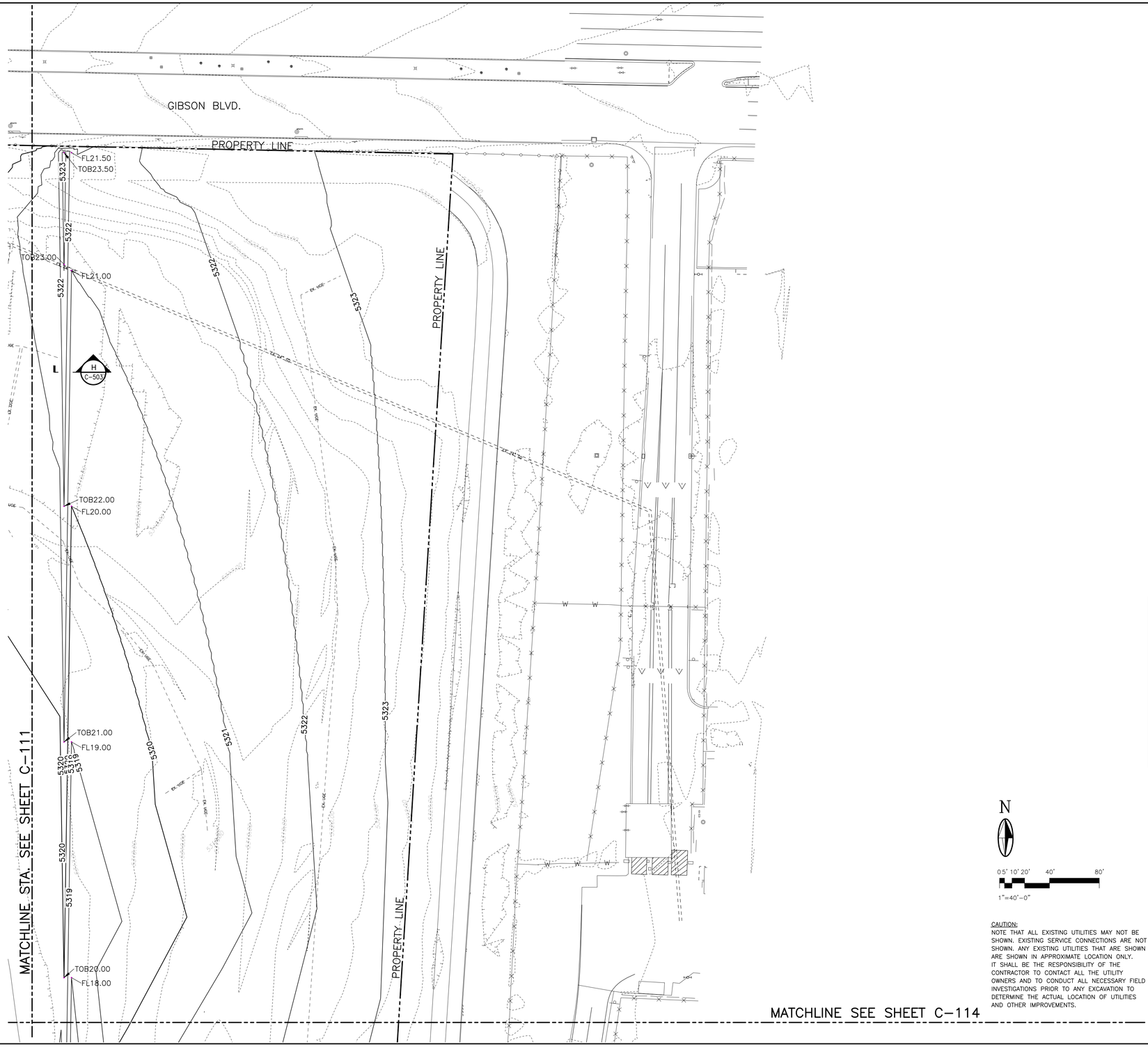

GENERAL SHEET NOTE:

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LEGEND

5320	EX. INDEX CONTOUR
5321	EX. INTERMEDIATE CONTOUR
5320	INDEX CONTOUR
5321	INTERMEDIATE CONTOUR
	EXISTING FENCE
	EXISTING SECURITY FENCE
	SUNPORT PROPERTY LINE
FL	FLOWLINE
TOB	TOP OF BERM

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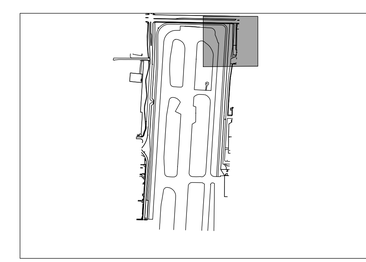

KEY MAP

MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

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

19-L16 - 3 1/4 INCH ALUMINUM DISC	N=479188.5779, E=532270.698, EL.=5297.51
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FIELD NOTES

NO.	BY	DATE

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 19 Of 31
751580	M-16	C-112

CAB-112 9/8/16 1:1

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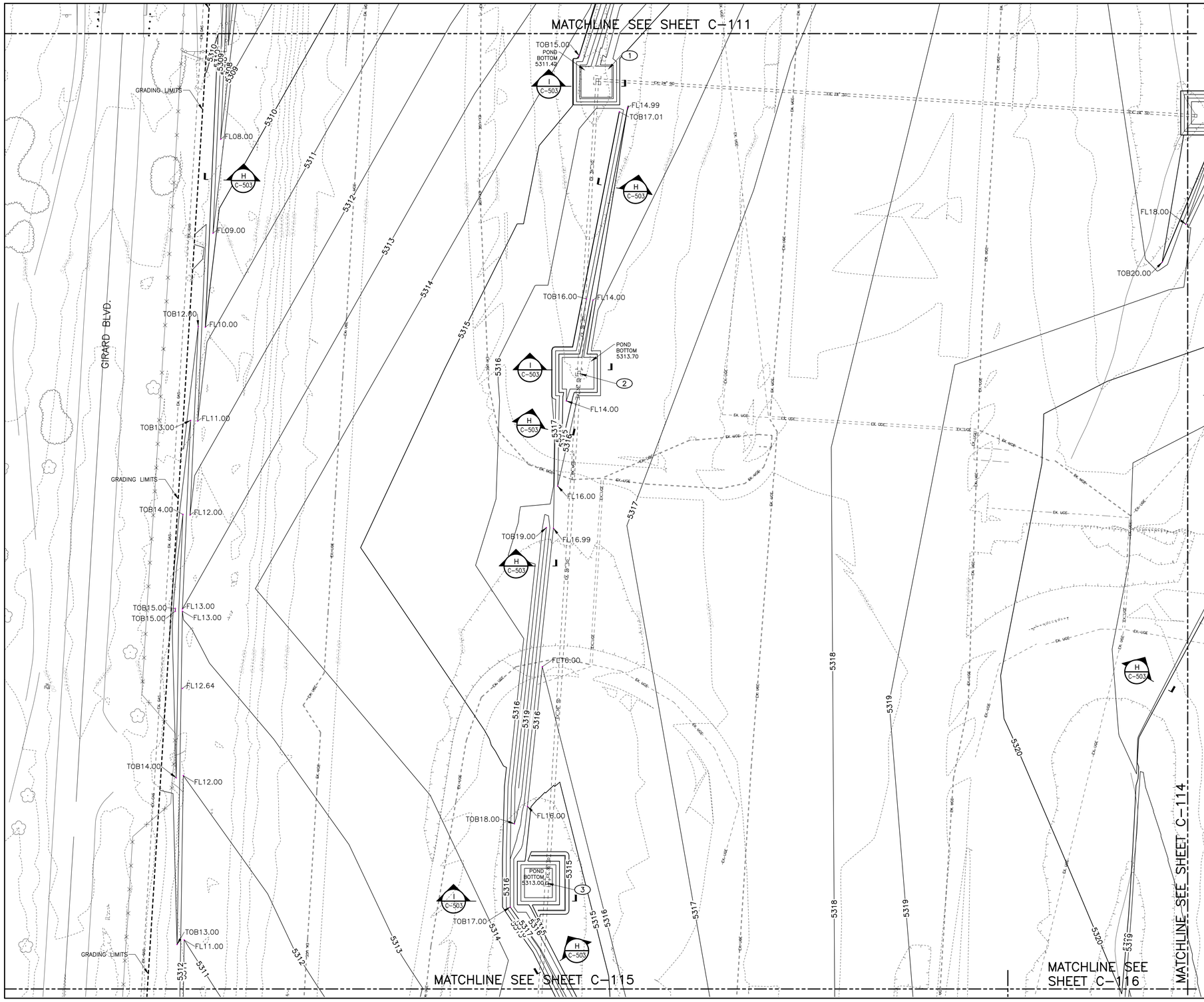

KEYED NOTES

1. EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=13.42
2. EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=15.69
3. EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=15.06

GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

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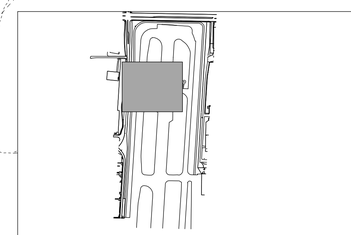

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FIELD NOTES

NO.	BY	DATE

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RECORDED BY	DATE
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 20 Of 31
751580	M-16	C-113

CAB-113 9/8/16 1:1

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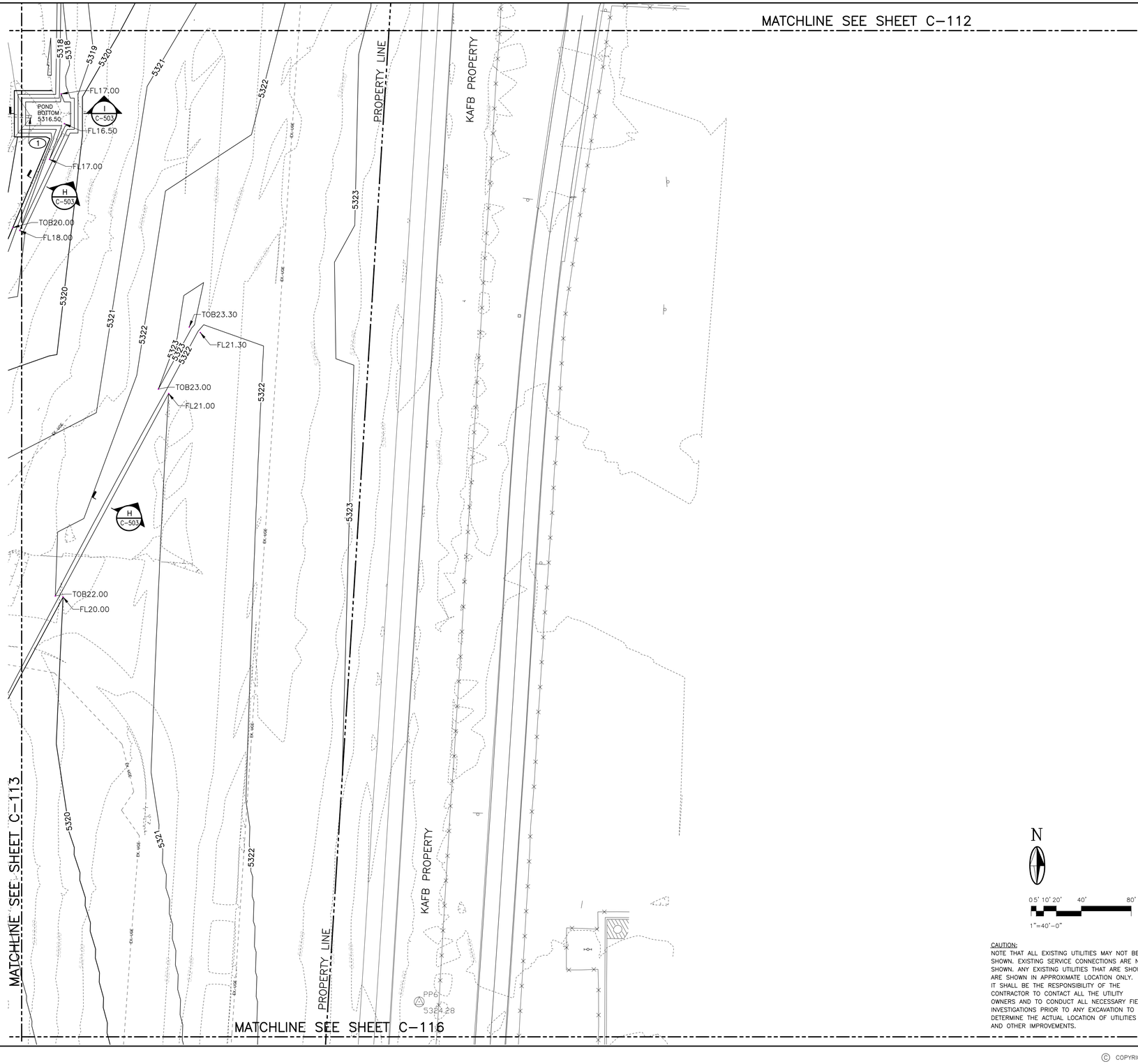

KEYED NOTES

1. ADJUST EXISTING STORM DRAIN INLET TOG=18.50

GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

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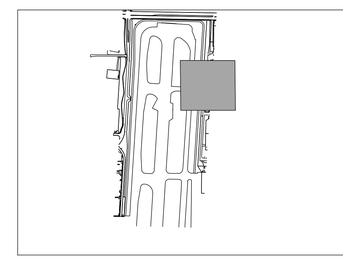

KEY MAP

MOLZENCORBIN

2701 Miles Road SE Albuquerque, New Mexico 87106

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTORS ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

19-L16 - 3 1/4 INCH ALUMINUM DISC
N=479188.5779, E=532270.698, EL.=5297.51

14-L17 - 3 1/4 INCH ALUMINUM DISC
N=480697.724 E=534906.820

NAD 83 NAVD 88 - CENTRAL ZONE

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STEVEN K. MORROW NEW MEXICO 13679 PROFESSIONAL ENGINEER

9-8-16

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	SM/RD	DATE SEPT. 2016
DRAWN BY	JLB	DATE SEPT. 2016
CHECKED BY	SM	DATE SEPT. 2016

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 21 Of 31
751580	M-16	C-114

CAB-114 9/8/16 1:1

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KEYED NOTES

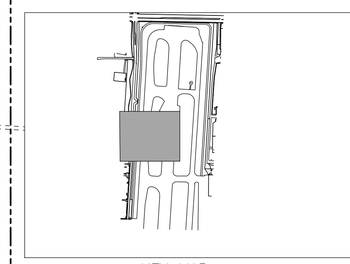
1. ADJUST STORM DRAIN INLET TOG=10.50
2. EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=14.27
3. EXISTING STORM DRAIN INLET TO REMAIN UNDISTURBED TOG=15.93
4. BEGIN NEW 6'-0" SECURITY FENCE SEE DETAIL SHEET C-504. TIE TO EXISTING SECURITY FENCE.

GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

5320	EX. INDEX CONTOUR
5321	EX. INTERMEDIATE CONTOUR
5320	INDEX CONTOUR
5321	INTERMEDIATE CONTOUR
	EXISTING FENCE
	EXISTING SECURITY FENCE
	SECURITY FENCE
FL	FLOWLINE
TOB	TOP OF BERM
	GRADING LIMITS



KEY MAP

N

0 5' 10' 20' 40' 80'

1"=40'-0"

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY DATE
NO. DATE

BENCH MARKS
19-L16 - 3 1/4 INCH ALUMINUM DISC N=479188.5779, E=532270.698, EL.=5297.51
14-L17 - 3 1/4 INCH ALUMINUM DISC N=480697.724 E=534906.820
NAD 83 NAVD 88 - CENTRAL ZONE

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
STEVEN K. MORROW NEW MEXICO 13679 REGISTERED PROFESSIONAL ENGINEER
9-8-16

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY RD DATE SEPT. 2016
DRAWN BY JLB DATE SEPT. 2016
CHECKED BY SM DATE SEPT. 2016

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 22 Of 31
751580	M-16	C-115

CAB-115 9/8/16 1:1

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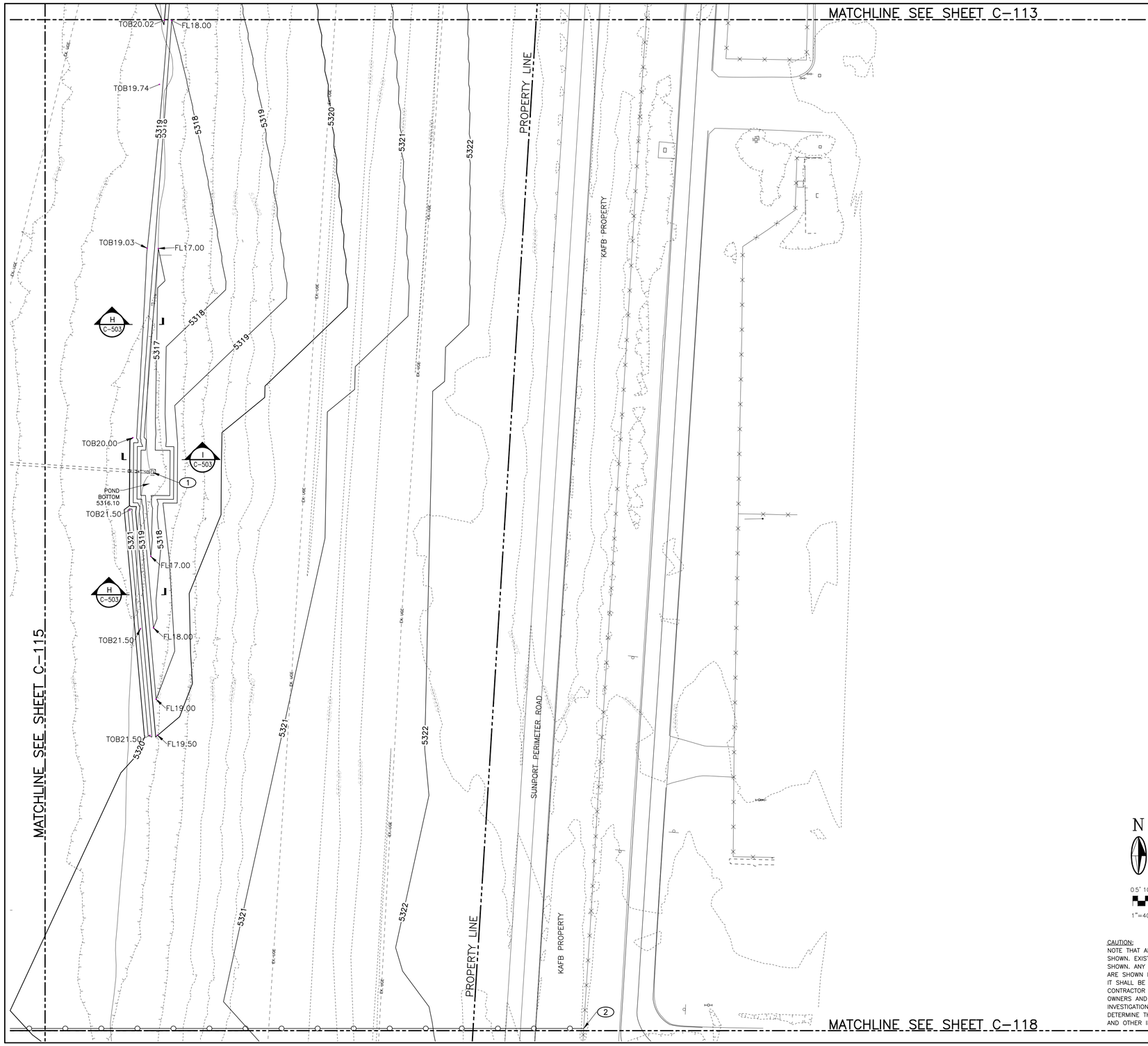


KEYED NOTES

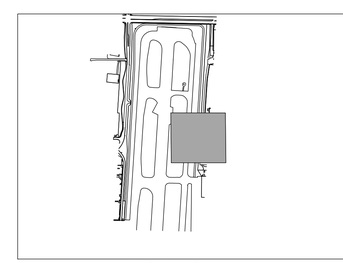
1. ADJUST EXISTING STORM DRAIN INLET TOG=18.10
2. END NEW 6'-0" SECURITY FENCE SEE DETAIL SHEET C-504. TIE TO EXISTING SECURITY FENCE.

GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

5320	EX. INDEX CONTOUR
5321	EX. INTERMEDIATE CONTOUR
5320	INDEX CONTOUR
5321	INTERMEDIATE CONTOUR
	EXISTING FENCE
	SECURITY FENCE
	SUNPORT PROPERTY LINE
FL	FLOWLINE
TOB	TOP OF BERM



KEY MAP

N

0 5' 10' 20' 40' 80'

1"=40'-0"

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 23 Of 31
751580	M-16	C-116

AS BUILT INFORMATION

		DATE
CONTRACTOR		
WORK STAKED BY		
INSPECTOR'S ACCEPTANCE BY		
FIELD VERIFICATION BY		
DRAWINGS CORRECTED BY		

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

19-L16 - 3 1/4 INCH ALUMINUM DISC
N=479188.5779, E=532270.698, EL.=5297.51

14-L17 - 3 1/4 INCH ALUMINUM DISC
N=480697.724 E=534906.820

NAD 83 NAVD 88 - CENTRAL ZONE

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STEVEN K. MORROW NEW MEXICO 13679 PROFESSIONAL ENGINEER
9-8-16

REVISIONS

NO.	DATE	REMARKS	BY

		DATE
DESIGNED BY	SM/RD	SEPT. 2016
DRAWN BY	JLB	SEPT. 2016
CHECKED BY	SM	SEPT. 2016

CAB-116 9/8/16 1:1

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KEYED NOTES

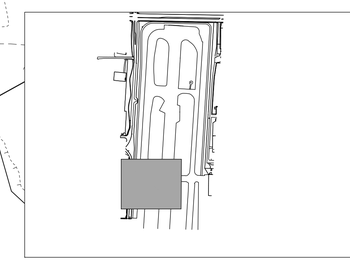
1. ADJUST EXISTING STORM DRAIN INLET TOG=5315.00
2. BEGIN NEW PERIMETER ROAD SEE TYPICAL SECTION DETAIL SHEET C-504. MATCH EXISTING PERIMETER ROAD GRADE
3. 24" CMP CULVERT WITH STANDARD END SECTION
   INV (IN)=12.40
   INV (OUT)=11.70

GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

5320	EX. INDEX CONTOUR
5321	EX. INTERMEDIATE CONTOUR
5320	INDEX CONTOUR
5321	INTERMEDIATE CONTOUR
	EXISTING SECURITY FENCE
	ASPHALT
FL	FLOWLINE
TOB	TOP OF BERM
	GRADING LIMITS



KEY MAP

N

0 5' 10' 20' 40' 80'
1"=40'-0"

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

AS BUILT INFORMATION
CONTRACTOR / WORK STAKED BY / INSPECTORS / ACCEPTANCE BY / FIELD VERIFICATION BY / DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
19-L16 - 3 1/4 INCH ALUMINUM DISC N=479188.5779, E=532270.698, EL.=5297.51
14-L17 - 3 1/4 INCH ALUMINUM DISC N=480697.724 E=534906.820
NAD 83 NAVD 88 - CENTRAL ZONE

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
STEVEN K. MORROW NEW MEXICO 13679 REGISTERED PROFESSIONAL ENGINEER
9-8-16

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	XXX	DATE	MON DA, 199X
DRAWN BY	XXX	DATE	MON DA, 199X
CHECKED BY	XXX	DATE	MON DA, 199X

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 24 Of 31
751580	M-16	C-117

CAB-117 9/8/16 1:1

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KEYED NOTES

1. END NEW ASPHALT PERIMETER ROAD SEE TYPICAL SECTION DETAIL SHEET C-503. MATCH EXISTING PERIMETER ROAD GRADE

GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

5320	EX. INDEX CONTOUR
5321	EX. INTERMEDIATE CONTOUR
5320	INDEX CONTOUR
5321	INTERMEDIATE CONTOUR
	EXISTING FENCE
	EXISTING SECURITY FENCE
	ASPHALT
	SUNPORT PROPERTY LINE
FL	FLOWLINE
TOB	TOP OF BERM

N

0 5' 10' 20' 40' 80'

1"=40'-0"

CAUTION:
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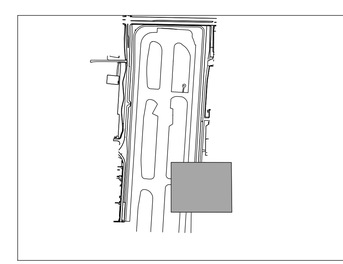

KEY MAP

MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

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

BENCH MARKS
19-L16 - 3 1/4 INCH ALUMINUM DISC
N=479188.5779, E=532270.698, EL.=5297.51
14-L17 - 3 1/4 INCH ALUMINUM DISC
N=480697.724 E=534906.820
NAD 83 NAVD 88 - CENTRAL ZONE

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
STEVEN K. MORROW NEW MEXICO 13679 PROFESSIONAL ENGINEER
9-8-16

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	SM/RD	DATE SEPT. 2016
DRAWN BY	XXX	DATE SEPT. 2016
CHECKED BY	SM	DATE SEPT. 2016

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 25 Of 31
751580	M-16	C-118

CAB-118 9/8/16 1:1

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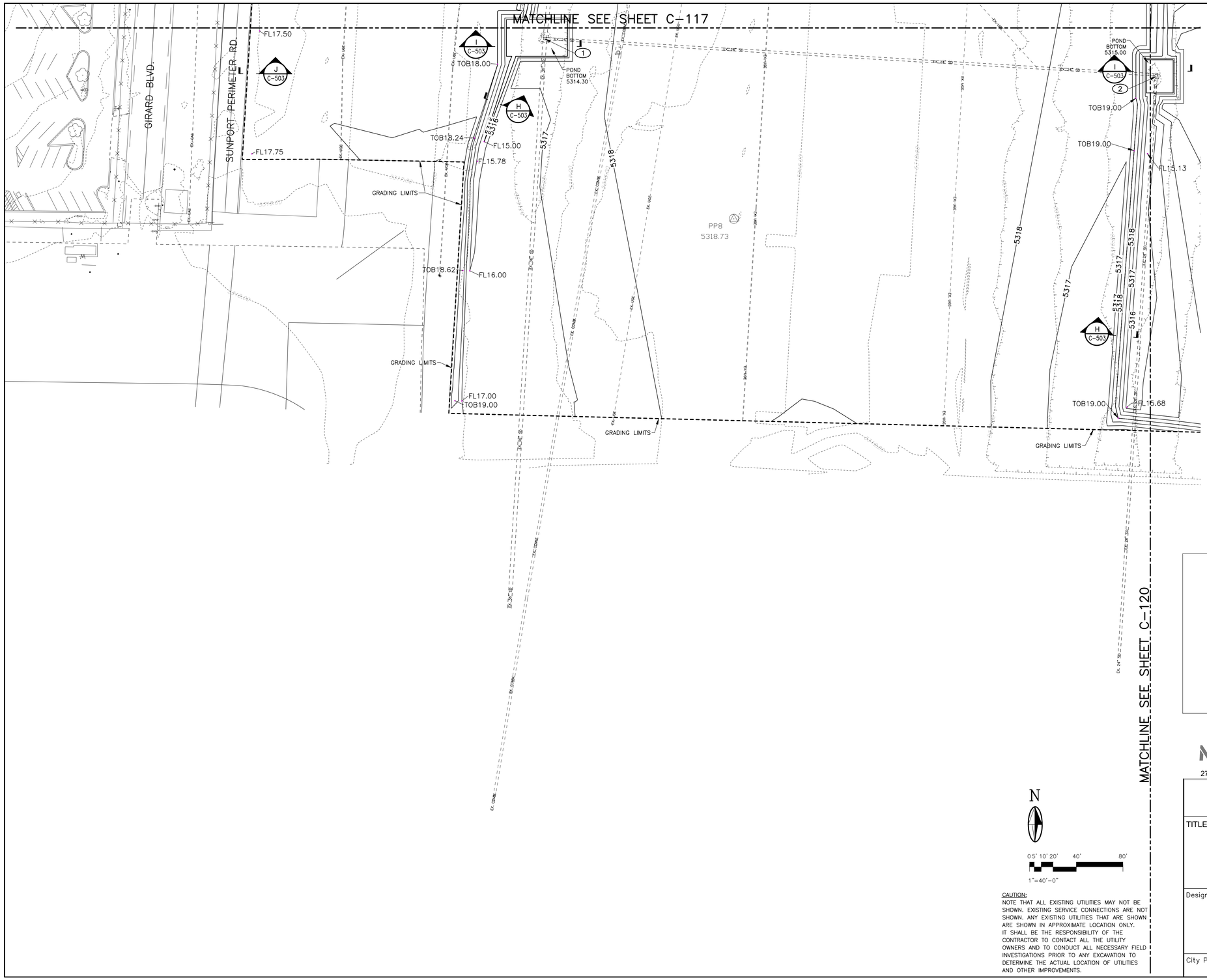


KEYED NOTES

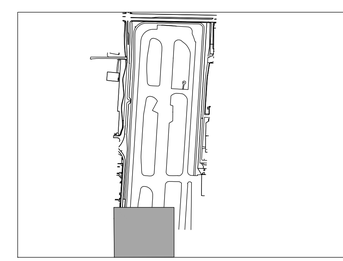
1. ADJUST EXISTING STORM DRAIN INLET TOG=5316.30
2. ADJUST EXISTING STORM DRAIN INLET TOG=5317.00

GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

5320	EX. INDEX CONTOUR
5321	EX. INTERMEDIATE CONTOUR
5320	INDEX CONTOUR
5321	INTERMEDIATE CONTOUR
	EXISTING FENCE
	EXISTING SECURITY FENCE
FL	FLOWLINE
TOB	TOP OF BERM
	GRADING LIMITS



KEY MAP

N

0 5' 10' 20' 40' 80'

1"=40'-0"

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MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

AS BUILT INFORMATION
CONTRACTOR / WORK STAKED BY / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY / DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
19-L16 - 3 1/4 INCH ALUMINUM DISC N=479188.5779, E=532270.698, EL.=5297.51
14-L17 - 3 1/4 INCH ALUMINUM DISC N=480697.724 E=534906.820
NAD 83 NAVD 88 - CENTRAL ZONE

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
STEVEN K. MORROW NEW MEXICO 13679 PROFESSIONAL ENGINEER
9-8-16

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	SM/RD	DATE SEPT. 2016
DRAWN BY	JLB	DATE SEPT. 2016
CHECKED BY	SM	DATE SEPT. 2016

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 26 Of 31
751580	M-16	C-119

CAB-119 9/8/16 1:1

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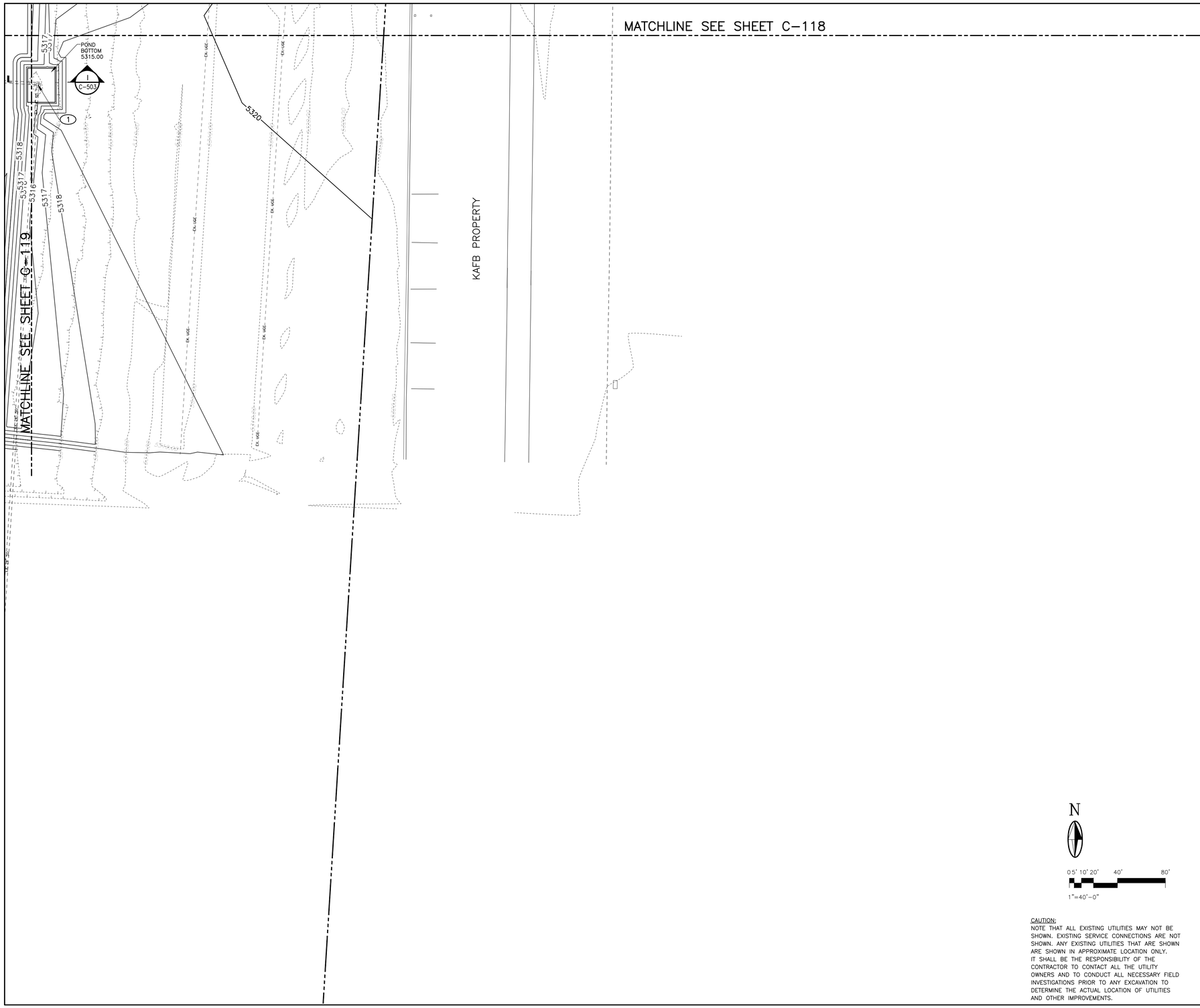

KEYED NOTES

1. ADJUST EXISTING STORM DRAIN INLET TOG=5317.00

GENERAL SHEET NOTE:

1. SEE SHEET G-007FOR OVERALL DRAINAGE PLAN, DRAINAGE REPORT AND CALCULATIONS

LEGEND

5320	EX. INDEX CONTOUR
5321	EX. INTERMEDIATE CONTOUR
5320	INDEX CONTOUR
5321	INTERMEDIATE CONTOUR
	EXISTING FENCE
	EXISTING SECURITY FENCE
	SUNPORT PROPERTY LINE

N

0 5' 10' 20' 40' 80'

1"=40'-0"

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE SHOWN IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

KEY MAP

MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

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

19-L16 - 3 1/4 INCH ALUMINUM DISC
N=479188.5779, E=532270.698, EL.=5297.51
14-L17 - 3 1/4 INCH ALUMINUM DISC
N=480697.724 E=534906.820
NAD 83 NAVD 88 - CENTRAL ZONE

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STEVEN K. MORROW NEW MEXICO 13679 REGISTERED PROFESSIONAL ENGINEER
9-8-16

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	SM/RD	DATE SEPT. 2016
DRAWN BY	JLB	DATE SEPT. 2016
CHECKED BY	SM	DATE SEPT. 2016

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 27 Of 31
751580	M-16	C-120

CAB-120 9/8/16 1:1

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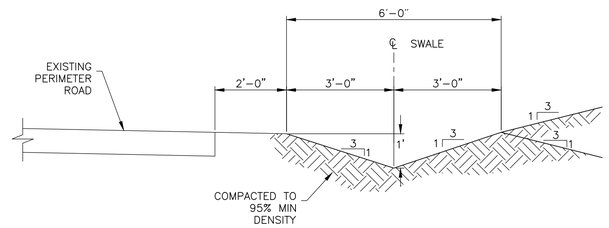
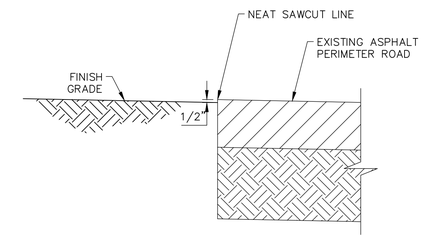


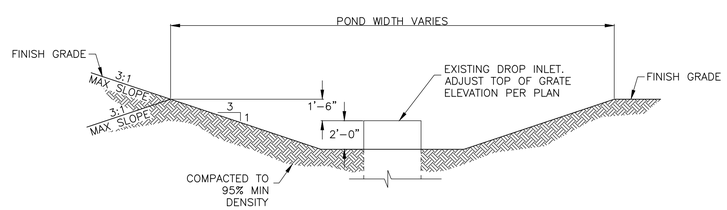
TYPICAL ROADWAY SWALE DETAIL (J)

SCALE: 1"=2'



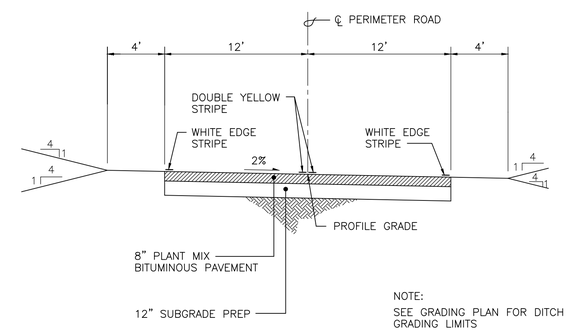
PAVEMENT SAWCUT AND FINISH GRADE TRANSITION

SCALE: N.T.S.



TYPICAL POND DETAIL (I)

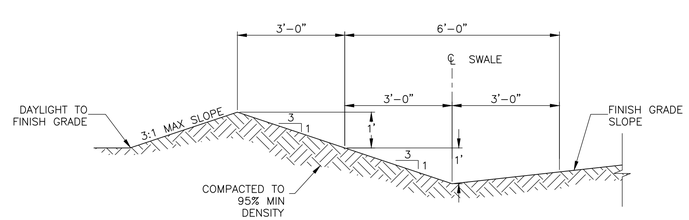
SCALE: 1"=5'



NOTE:
SEE GRADING PLAN FOR DITCH GRADING LIMITS

TYPICAL SECTION – PERIMETER ROAD

SCALE: N.T.S.



TYPICAL SWALE DETAIL (H)

SCALE: 1"=2'

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY
INSPECTOR'S ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS

19-L16 – 3 1/4 INCH ALUMINUM DISC
N=479188.5779, E=532270.698, EL.=5297.51
14-L17 – 3 1/4 INCH ALUMINUM DISC
N=480697.724 E=534906.820
NAD 83 NAVD 88 – CENTRAL ZONE

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STEVEN K. MORROW NEW MEXICO 13679 PROFESSIONAL ENGINEER
9-8-16

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY SM DATE SEPT. 2016
DRAWN BY J.BEHREND DATE SEPT. 2016
CHECKED BY SM DATE SEPT. 2016

MOLZENCORBIN
2701 Miles Road SE Albuquerque, New Mexico 87106

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ALBUQUERQUE SUNPORT - AVIATION CENTER OF EXCELLENCE

MISCELLANEOUS DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet 30 Of 31
751580	M-16	C-503

CAB-503 9/8/16 1:1

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