CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

April 19, 2017

Farshad Omidvaran, P.E. Parsons Brinkerhoff 6100 Uptown Blvd NE Albuquerque, NM 87110

RE: ABQ Ride Daytona Transit Facility

Conceptual Grading and Drainage Plan

Engineer's Stamp Date: 3/20/17

Hydrology File: J09D025

Dear Mr. Omidvaran:

Based on the information provided in your submittal received on 3/20/17, the Conceptual Grading and Drainage Plan is approved for Administrative Amendment for Grading Permit and Paving Permit.

If you have any questions, please contact me at 924-3695 or dpeterson@cabq.gov.

Albuquerque

PO Box 1293

New Mexico 87103

Sincerely,

www.cabq.gov

Dana Peterson, P.E.

Senior Engineer, Planning Dept. Development Review Services



City of Albuquerque

Planning Department

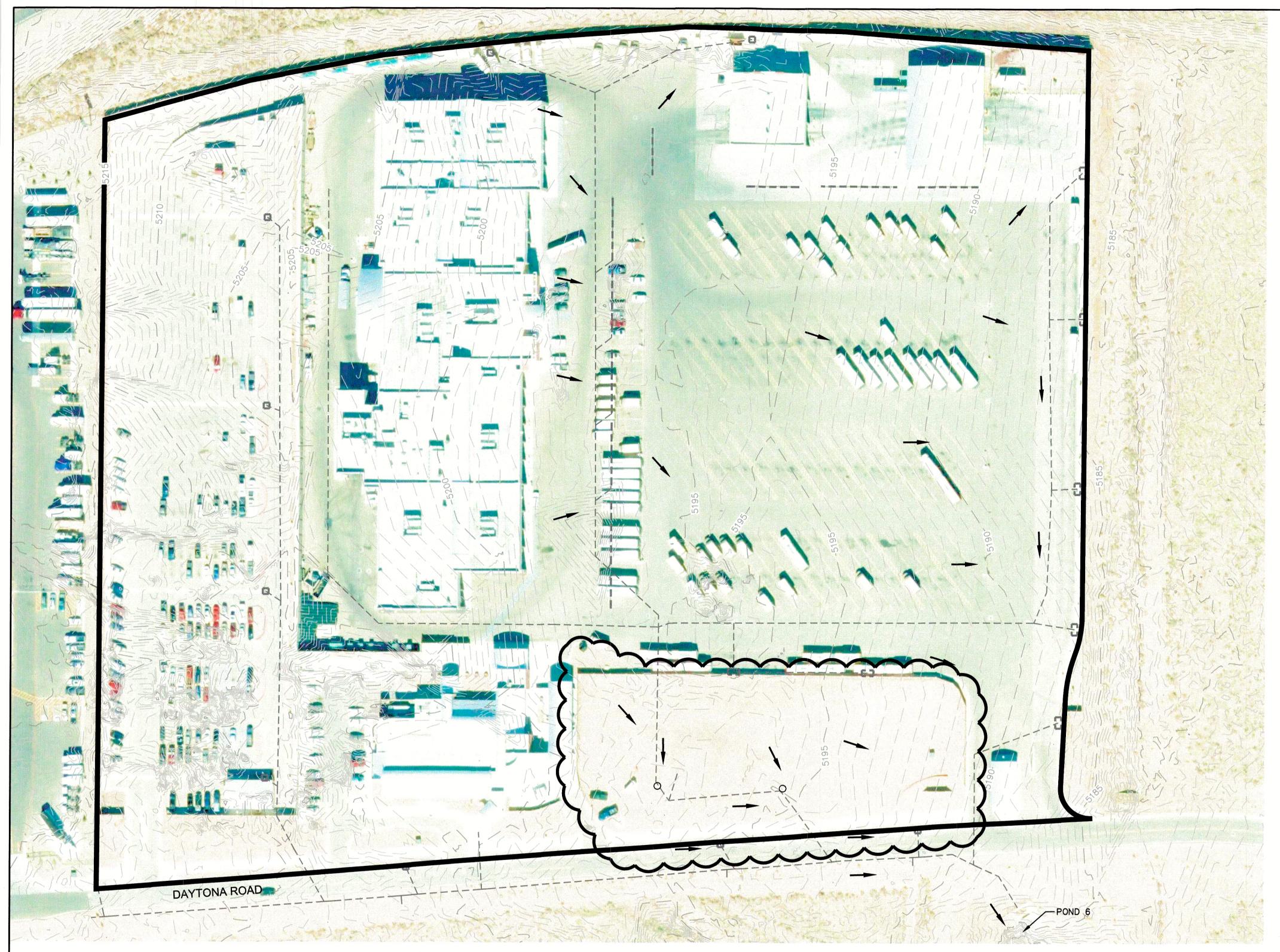
Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2016)

Project Title: ABQ Ride Daytona Design	Building Permit	#:Hydrology File #:
		Work Order#:
Legal Description: Lot A, West Side Transit		, , , , , , , , , , , , , , , , , , ,
City Address: 8001 Daytona Road NW, Alb	uquerque, NM 87	121

Applicant: Daytona Transit Facility (COA)		Contact: Nolan Meadows
Address: 8001 Daytona Place, NM, Albuquer	rque, NM 87121	
Phone#: _505-239-9924	_Fax#:	E-mail: nmeadows@cabq.gov
Other Contact: WSP Parsons Brinckerhoff		Contact: Jim Buckman
Address: 6100 Uptown Blvd. NE Suite 600,	Albuquerque, NM	187110
Phone#: 505-878-6577	_Fax#:	E-mail: Buckman@pbworld.com
		· ·
Check all that Apply:		
TATETRA ENGRACIONION.		TYPE OF APPROVAL/ACCEPTANCE SOUGHT:
DEPARTMENT: HYDROLOGY/ DRAINAGE		BUILDING PERMIT APPROVAL
TRAFFIC/ TRANSPORTATION		CERTIFICATE OF OCCUPANCY
THE OF CUIDAVERS		DDDV II (DV) DV) DV) DV) DV)
TYPE OF SUBMITTAL:	_	PRELIMINARY PLAT APPROVAL
ENGINEER/ARCHITECT CERTIFICATION	N	SITE PLAN FOR SUB'D APPROVAL
/		SITE PLAN FOR BLDG. PERMIT APPROVAL
✓ CONCEPTUAL G & D PLAN		FINAL PLAT APPROVAL
GRADING PLAN		
DRAINAGE MASTER PLAN		SIA/ RELEASE OF FINANCIAL GUARANTEE
DRAINAGE REPORT		FOUNDATION PERMIT APPROVAL
CLOMR/LOMR		GRADING PERMIT APPROVAL
		SO-19 APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL))	PAVING PERMIT APPROVAL
TRAFFIC IMPACT STUDY (TIS)		GRADING/ PAD CERTIFICATION
		WORK ORDER APPROVAL
OTHER (SPECIFY)		CLOMR/LOMR
PRE-DESIGN MEETING?		
		Advisor in the second
IS THIS A RESUBMITTAL?: Yes No	0	✓ OTHER (SPECIFY) Administrative Amendment
	19.98	
DATE SUBMITTED: 3-20-2017	By: Kush	at Comp for Jim Buckman
		2
COA STAFF:	ELECTRONIC SUBI	MITTAL RECEIVED:

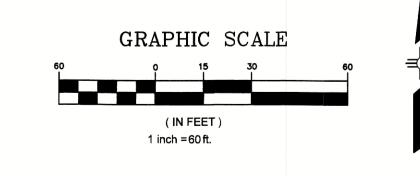
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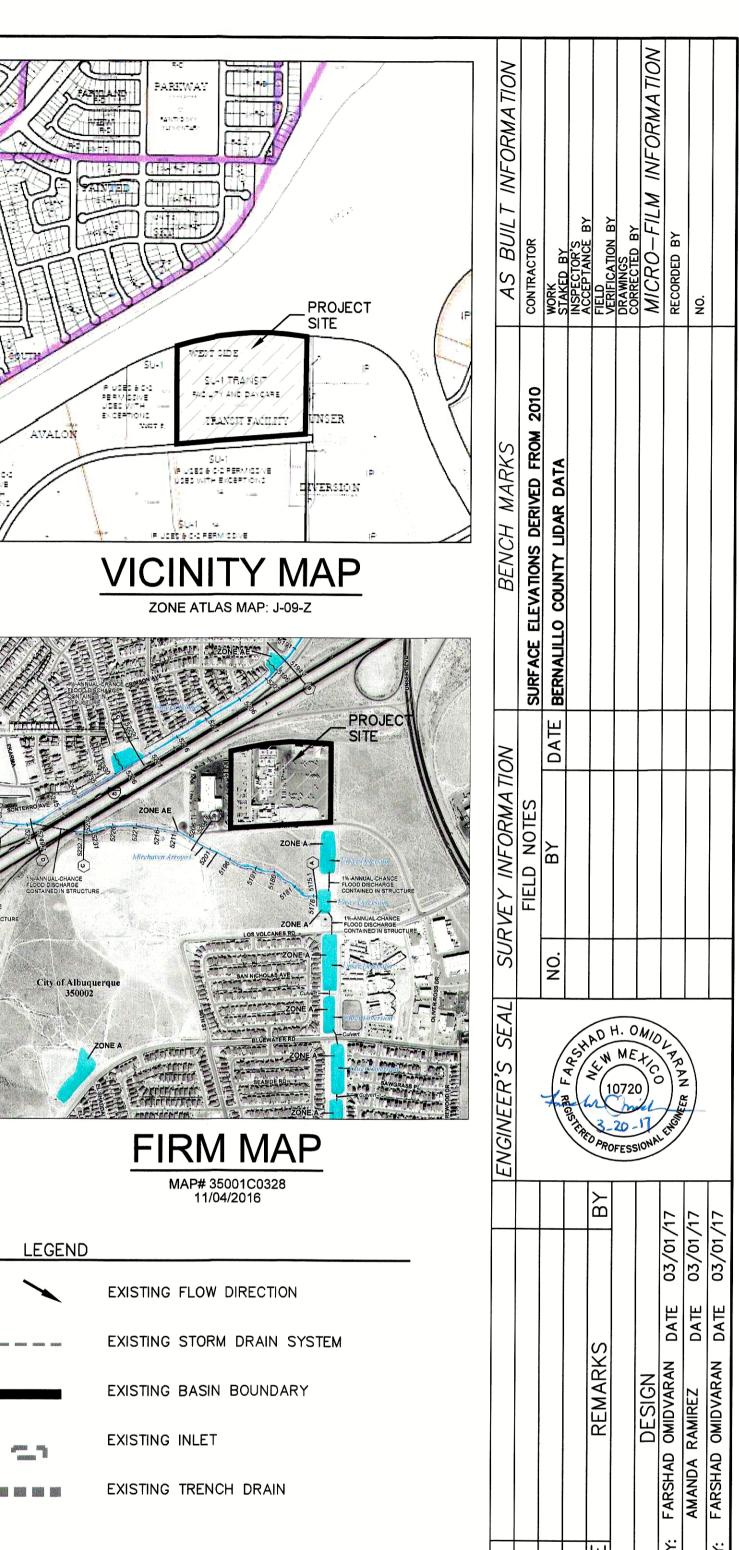


EXISTING CONDITIONS
THE EXISTING SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE. THE ENTIRE SITE DRAINS EASTERLY AND SOUTHEASTERLY TO AN EXISTING STORM DRAIN SYSTEM THAT CONVEYS THE FLOW TO AN EXISTING OFFSITE POND KNOWN AS POND 6 IN THE I-40 SOUTH AND UNSER DIVERSION MINI DMP.

LEGAL DESCRIPTION LOT A, WEST SIDE TRANSIT FACILITY

NOTE:
THE CLOUDED AREA IDENTIFIES THE PORTION OF THE SITE THAT WOULD BE MODIFIED UNDER THIS PROJECT. NO CHANGES TO THE REMAINDER OF THE SITE ARE ANTICIPATED. SEE SHEET 2, PROPOSED CONDITIONS DRAINAGE BASIN MAP OF THE PLANS FOR THE PROPOSED MODIFICATIONS.





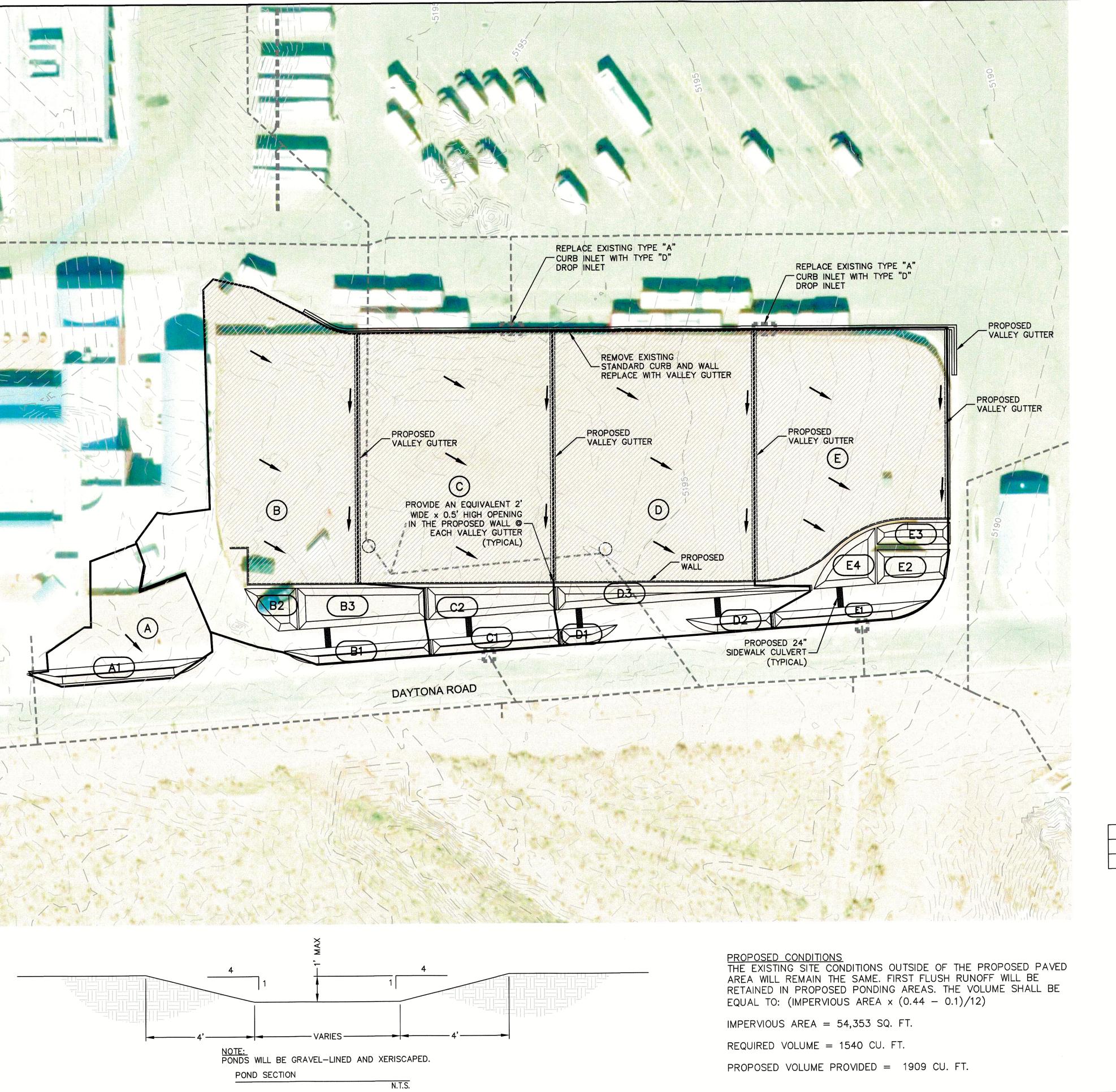
PARSONS BRINCKERHOFF CITY OF ALBUQUERQUE TRANSIT DEPARTMENT ABQ RIDE ABQ RIDE DAYTONA DESIGN

CONCEPTUAL GRADING AND DRAINAGE PLAN EXISTING CONDITIONS DRAINAGE BASIN MAP

W COMMITTEE | CITY ENGINEER APPROVAL | MO./DAY/YR. | MO./DAY

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL City Project No. Zone Map No. | Sheet 1 of 2 COA 201700667 J-09-Z

J:\33749 ABQ Ride Daytona Design\04 Engineering — COA 33749A\Proposed\Drainage\BasinMaps.dwg Mar 20, 2017 — 11:31am Saved By: ramirezar



THE EFFECTS OF THE IMPROVEMENTS (ADDITIONAL IMPERVIOUS AREA) ON THE DOWNSTREAM FACILITIES

HYDROLOGIC DATA - EXISTING (UNPAVED AREA)											
AREA (acres)	LAND T	REATMENT PI	ERCENTAGES	BY TYPE	YIELD	Q100 (cfs)	V100-24 (ac-ft)	V100-24 (cu-ft)			
	Α	В	С	D	(cfs/ac)						
1.25	-	-	100	-	2.87	3.6	0.103	4484			

		HYDR	OLOGIC DATA	A - PROPOSED	(PAVED AREA	A)		
		REATMENT PE	RCENTAGES	BY TYPE	YIELD	Q100 (cfs)	V100-24	V100-2
AREA (acres)	Α	В	С	D	(cfs/ac)	Q100 (CI3)	(ac-ft)	(cu-ft)
1.25	-	-	-	100	4.37	5.5	0.253	11006

DELTA Q100 = 1.87 CFS

DELTA V100-24 = 6522.36 CU. FT.

THE I-40 SOUTH AND UNSER MINI DMP PREPARED BY EASTERLING CONSULTANTS LLC, APRIL 2014. HAS EVALUATED THIS SITE AS FULLY DEVELOPED AND HAS CONCLUDED THAT THE DOWNSTREAM STORM DRAIN AND POND FACILITIES HAVE SUFFICIENT CAPACITY. THE REPORT DESIGNATES THE SITE AS SUBBASIN A-3D WITH A DRAINAGE AREA OF 19.63 ACRES AND A CURVE NUMBER OF 91 ON THE EXISTING CONDITIONS DRAINAGE BASIN MAP.

TWO OF THE EXISTING COA SINGLE TYPE A DROP INLETS LOCATED ON DAYTONA ROAD (JUST SOUTH OF THE SITE) WOULD EACH RECEIVE AN ADDITIONAL FLOW OF 1 CFS ±. THIS IS BASED ON EXISTING OFFSITE FLOW TO ÉACH OF THESE INLETS OF 3.6 / 2 = 1.8 CFS \pm , AND IT WOULD INCREASE TO 5.5 / 2 = 2.8 CFS \pm .

THE CONTRIBUTORY DRAINAGE BASIN TO EACH OF THESE INLETS FROM THE STREET IS 0.15 ACRES ±, RESULTING IN A FLOW OF 4.37 * 0.15 = 0.7 CFS.

TOTAL FLOW (PROPOSED CONDITIONS) TO EACH INLET 2.8 + 0.7 = 3.5 CFS \pm .

DPM - STREET AND GRATING CAPACITIES CHARTS: LONGITUDINAL SLOPE OF DAYTONA ROAD $= 1.5\% \pm 1.5\%$

100-YEAR FLOW DEPTH = 0.32' < 0.5' FLOW DEPTH CRITERION FOR 10-YEAR STORM IN ANY COLLECTOR

100-YEAR VELOCITY = 2.7 FPS THE PRODUCT OF DEPTH TIMES VELOCITY = 0.9 < 6.5 CRITERION FOR 10-YEAR STORM IN ANY STREET

THEREFORE, PROPOSED IMPROVEMENTS MEET THE DPM'S STREET FLOW CRITERIA.

BASIN DESIGNATION

EXISTING INLET

POND DESIGNATION (FIRST FLUSH WATER QUALITY POND)

EXISTING STORM DRAIN SYSTEM

PROPOSED PAVED AREA

PROPOSED FLOW DIRECTION

BASIN	AREA (sq-ft)	BASIN RUNOFF VOLUME (cu-ft)	POND VOLUME PROVIDED (cu-ft)	STORED VOLUME IN THE POND (cu. Ft.)
Α	4379	124	123	123
В	19030	539	757	539
С	17704	502	346	346
D	19262	546	426	426
E	16732	474	632	474
	1		TOTAL =	1909

	HYDROLOGIC DATA - PROPOSED											
L BYCINIC I	AREA	LAND T	REATMENT PI	RCENTAGES	YIELD	Q100 (cfs)	V100-24					
	(acres)	Α	В	С	D	(cfs/ac)	Q100 (CI3)	(ac-ft)				
Α	0.101	_	-	-	100	4.37	0.44	0.020				
В	0.437	-	_	_	100	4.37	1.91	0.088				
С	0.406	-	_	-	100	4.37	1.78	0.082				
D	0.442	-	-	-	100	4.37	1.93	0.090				
E	0.384	-	-	-	100	4.37	1.68	0.078				

PROVIDED POND VOLUME (cu-ft)													
POND #	A1	B1	B2	В3	C1	C2	D1	D2	D3	E1	E2	E3	E4
AREA	123	96	360	301	99	247	76	94	256	143	184	118	186

PARSONS BRINCKERHOFF



CITY OF ALBUQUERQUE TRANSIT DEPARTMENT
ABQ RIDE

ABQ RIDE DAYTONA DESIGN CONCEPTUAL GRADING AND DRAINAGE PLAN PROPOSED CONDITIONS DRAINAGE BASIN MAP

SEW COMMITTEE CITY ENGINEER APPROVAL MO./DAY/YR. MO./DAY/YR. MO./DAY/YR. DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

Zone Map No. | Sheet City Project No. 2 of 2 COA 201700667 J-09-Z

GRAPHIC SCALE 1 inch = 30ft.