CITY OF ALBUQUERQUE



Richard J. Berry, Mayor

March 7, 2017

Mike Balaskovits Bohannan Huston, Inc. 7500 Jefferson St NE Albuquerque, NM 87109

RE: Headline Blvd (Legacy at Journal Center)

Grading Plan

Engineer's Stamp Date 2/21/2017

Hydrology File: D17D106

Dear Mr. Balaskovits:

PO Box 1293

Based upon the information provided in the submittal received on 2/21/2017 the above-referenced Grading Plan is not approved for Grading, SO-19, or Paving Permit. The below items must be addressed prior to approval.

Albuquerque

- 1. Inlet structure and connection to the 42" storm drain.
 - a. The existing 42" storm drain is HDPE, show how the connection will be made to the new 8.51' section of 42" RCP storm drain.

New Mexico 87103

b. The type double-D inlet will need to be rotated 90 degrees as the width is only 2' 1 ½" wide and won't connect to the 42" storm drain. A larger junction box is likely needed here as explained below.

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- c. Determine the grate capacity, and head required to allow 46 cfs into the type double-D inlet structure with 15% clogging. The sump around the inlet will need to contain this plus freeboard. A larger junction is likely needed here to provide more capacity.
- 2. Drainage along former Headline.
 - a. Provide a section cut of the new Headline Blvd parking area, showing flow depths through this area. The cross-slope pushing all flows to the west side does not appear adequate for conveying 46 cfs. An inverse crown with valley gutter (alley) may be more effective here; this would also keep flows from being obstructed by the parking islands.
 - b. Provide elevations along the western edge of the property; a waterblock may be needed to keep flows from entering the property to the west.

CITY OF ALBUQUERQUE



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3. Pond.

- a. The proposed pond includes 8.5' vertical walls all around. Provide a fence or barricade around the pond at least 42" high and provide emergency access into and out of the pond.
- b. The pond needs to be sized to retain the first flush volume for basin B2-A. If other storm water quality facilities are proposed for treating Basin B2-A water, include those in the Grading and Drainage Plan.
- c. Add water surface elevations for the first flush elevation and the 100-yr, 6hr elevation.

4. General.

- a. The curb access ramp for the bike path needs to be as wide as the bike path.
- b. The finished floor of the 9,000SF retail space is below the proposed grade. Should this be raised?
- c. Add areas (square-footage) for area of grading and area of new paving.
- d. Call out work items to be performed by SO-19.

PO Box 1293

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

Sincerely,

Albuquerque

New Mexico 87103

Dana Peterson, P.E.

Senior Engineer, Planning Dept.

Development Review Services

www.cabq.gov



Engineering Spatial Data Advanced Technologies

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

www.bhinc.com

voice: 505.823.1000 facsimile: 505.798.7988 toll free: 800.877.5332

CLIENT/COURIER TRANSMITTAL

	-						
То:	Shahab Biazar		Requested by:	Mike Balaskovits February 21, 2017			
	City of Albuquer 600 2 nd St. NW	•	Date:				
	Albuquerque, NI	И 87102	Time Due:	☐ This A.M. ☐ This P.M. ☐ Rush ☐ By Tomorrow			
	UPS	al Express	PICE				
Phone: Job No.:	924-3999 20170053		Job Name:	Headline Blvd. (Legacy @ Journal Center)			
ITEM NO	. QUANTITY	DESCRIPTION					
1	2	Drainage Info Sheet	t				
2	2	Grading & Drainage	Plan				
3	2	Paving Plan					
4	2	Drainage Managem	ent Plan				
5 COMMENT		del Norte Interchang		nage Report for the I-25 / Paseo Design Build Project"			
COMMENT	S / INSTRUCTION	<u> </u>					
Shahab,							
part of Legac		ter). We are requesti		anagement Plan for Headline Blvd (a , Paving, & SO-19 Permit Approval.			
Thanks, Mike							
REC'D BY:		D	ATE:	TIME:			



City of Albuquerque

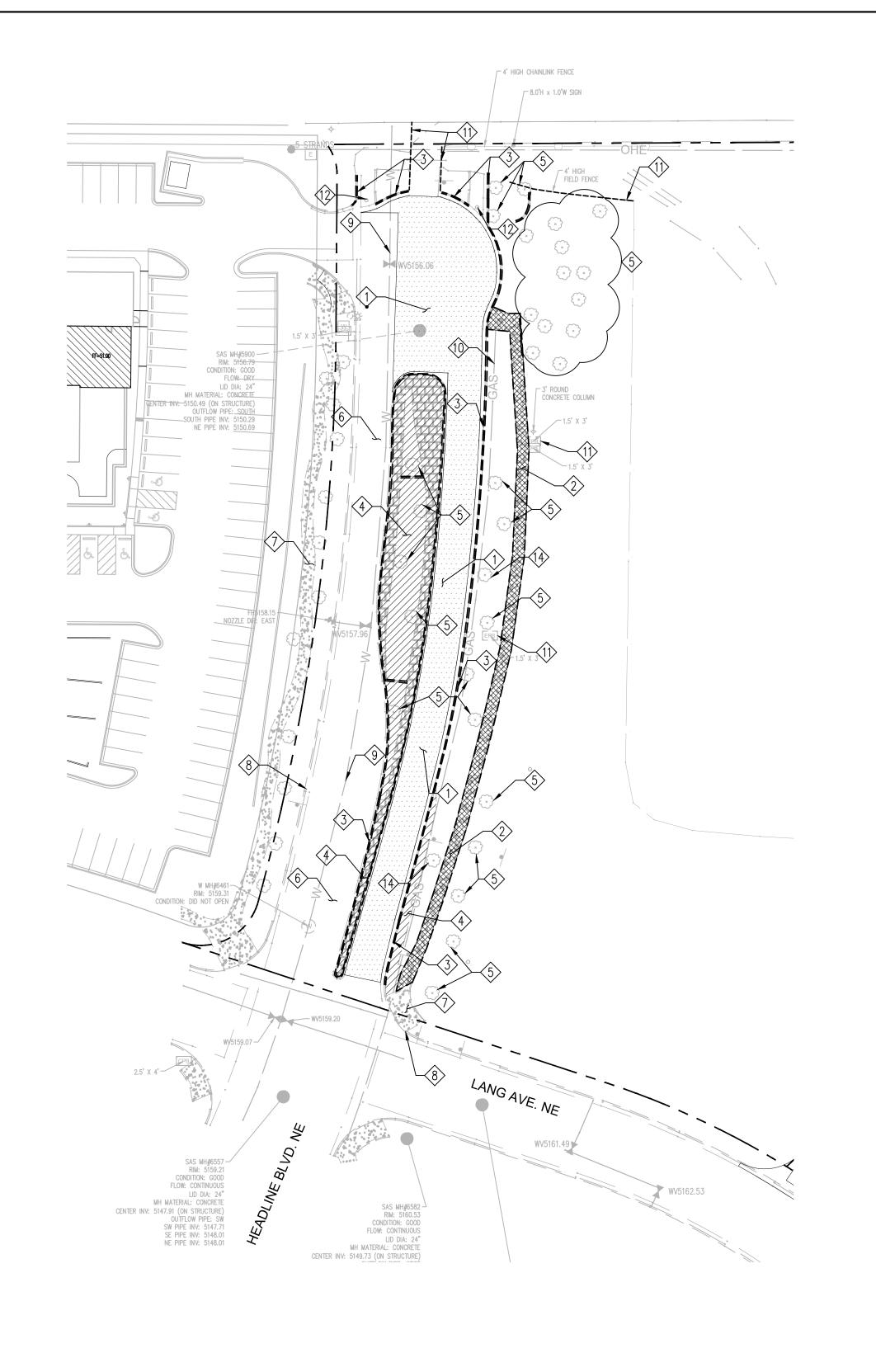
Planning Department

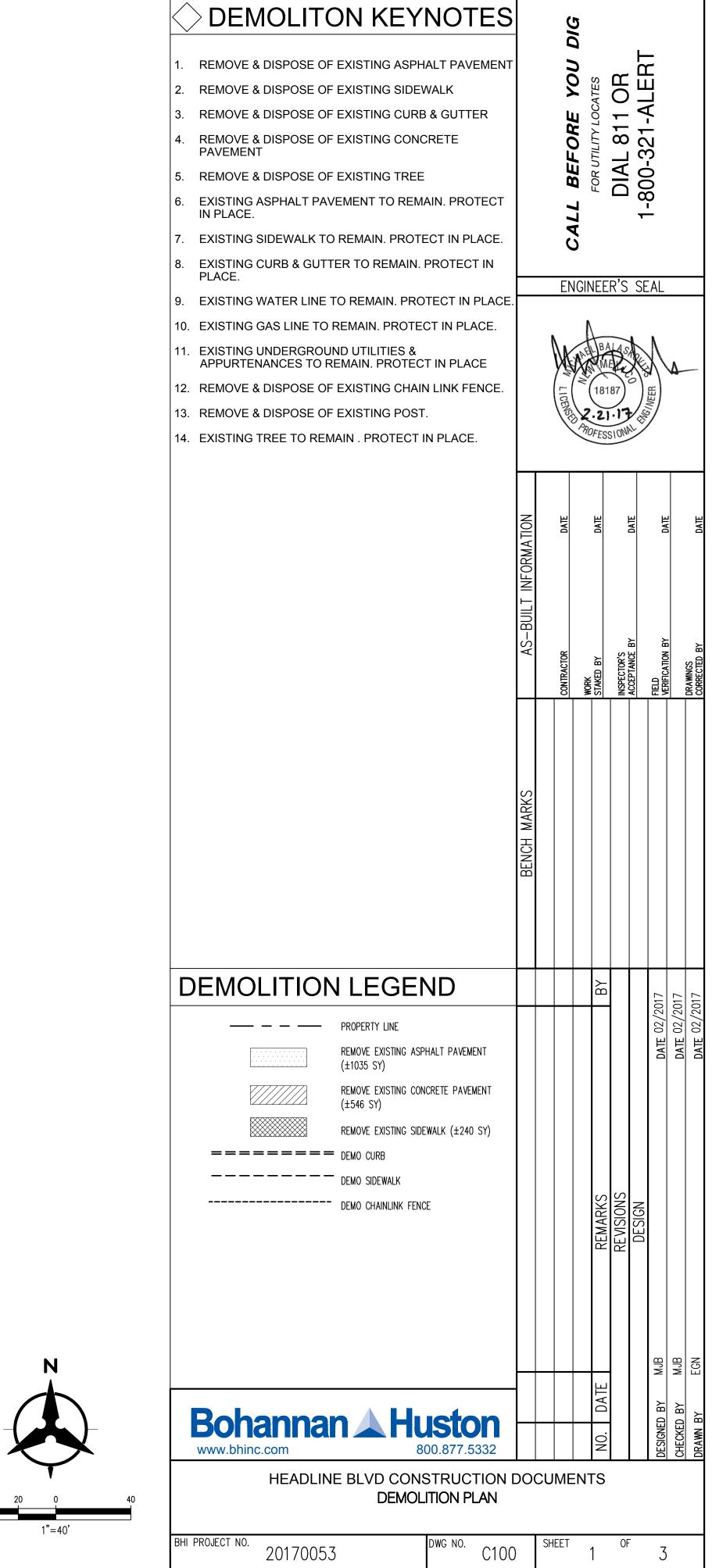
Development & Building Services Division

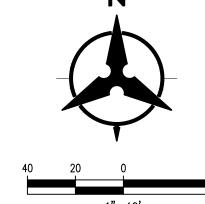
DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 09/2015)

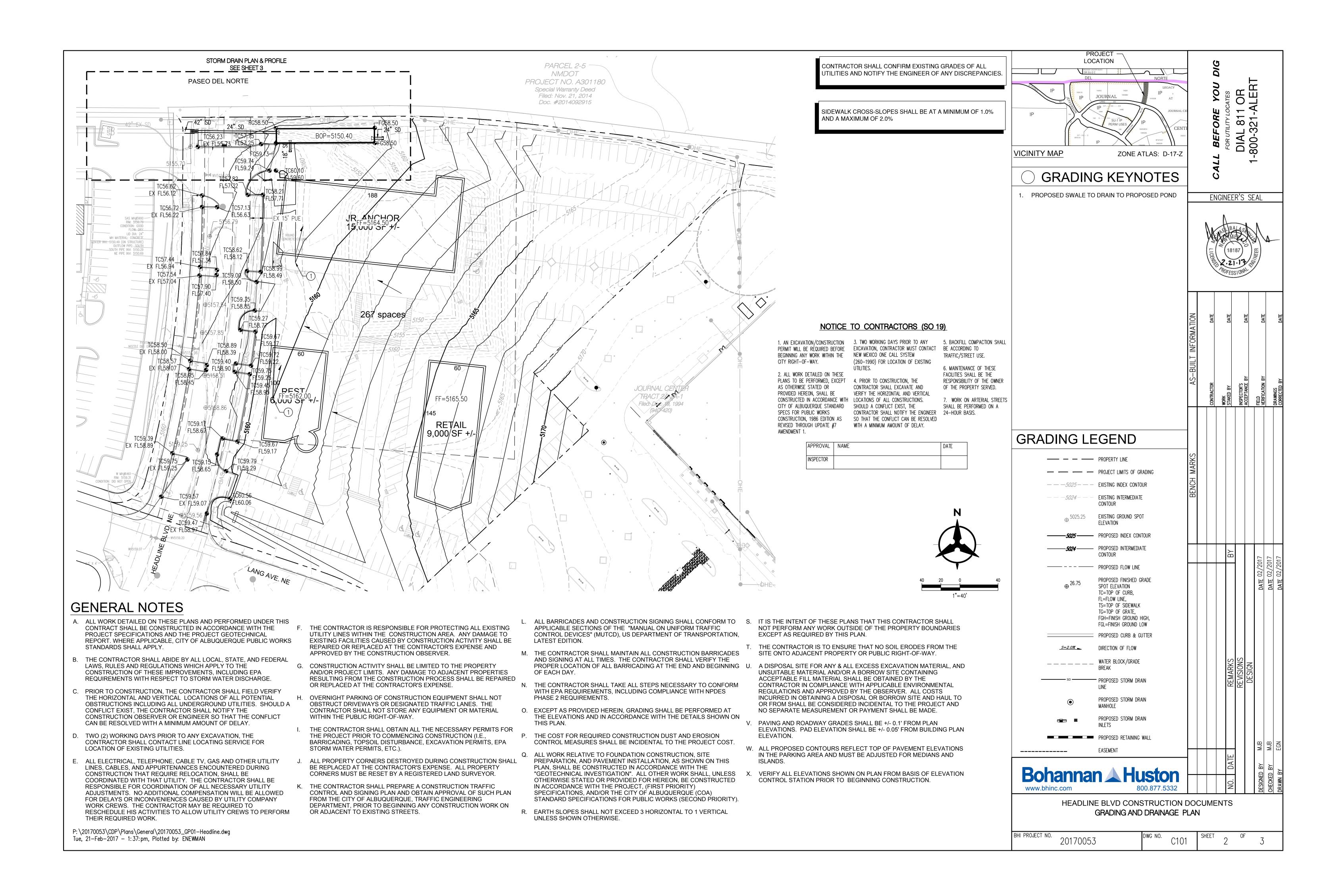
Project Title: HEADLINE BLVD (LEGACY @ JOURNAL CENTER)	Building Permit #:	City Drainage #: D17/D106
DRB#: 1010228 EPC#:		Work Order#:
Legal Description: TRACT A-1 PLAT OF TRACT A-1, A-2, & A-3 LEG	ACY AT JOURNAL CENTER	
City Address: HEADLINE BLVD NE ALBUQUERQUE, NM 87109		
Engineering Firm: BOHANNAN HUSTON, INC.		Contact: MIKE BALASKOVITS
Address: 7500 JEFFERSON ST NE ALBUQUERQUE, NM 87109		
Phone#: 505-823-1000 Fax#: 505-798-7	988	E-mail: MBALASKOVITS@BHINC.COM
Owner: TITAN DEVELOPMENT CENTER LAND, LLC		Contact: BRIAN PATTERSON
Address: 6300 RIVERSIDE PLAZA LANE NW #200		
Phone#: 505-998-0163 Fax#:		E-mail: BPATTERSON@TITAN-DEVELOPMENT.COM
Architect:		Contact:
Address:		
DI #.		E-mail:
Other Contact:		Contact:
Address:		
Phone#: Fax#:		E-mail:
TYPE OF SUBMITTAL: ENGINEER/ ARCHITECT CERTIFICATION CONCEPTUAL G & D PLAN X GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT CLOMR/LOMR	SITE PLAN I SITE PLAN I SITE PLAN I FINAL PLAT SIA/ RELEAS FOUNDATIO	SE OF FINANCIAL GUARANTEE N PERMIT APPROVAL ERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT (TCL) TRAFFIC IMPACT STUDY (TIS) EROSION & SEDIMENT CONTROL PLAN (ESC) OTHER (SPECIFY)	GRADING/ P WORK ORDE CLOMR/LOM PRE-DESIGN	IR MEETING
IS THIS A RESUBMITTAL?: YesX No	OTHER (SPE	CCIFY)
DATE SUBMITTED: 02/21/2017 By:		

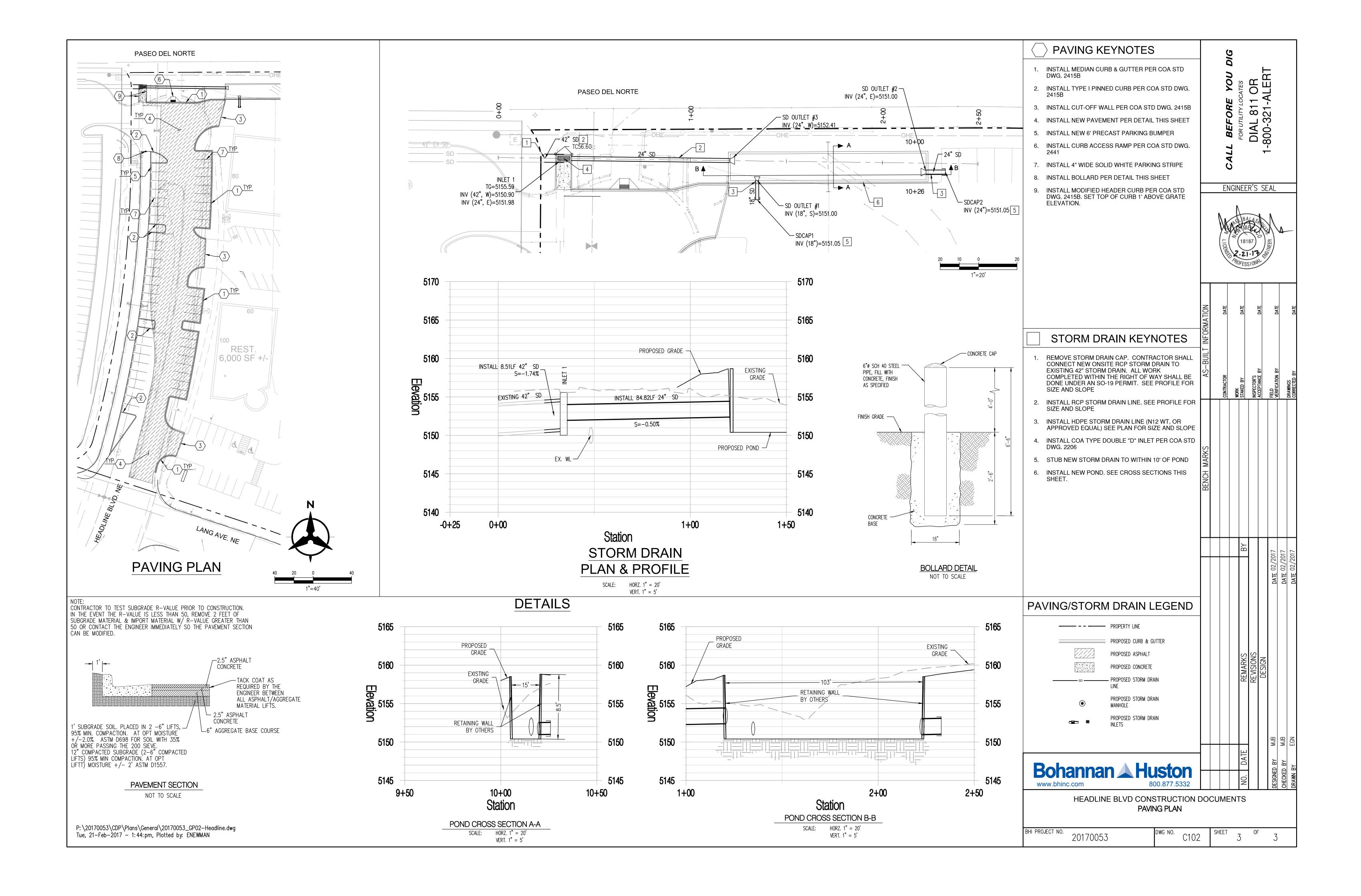
COA STAFF: ELECTRONIC SUBMITTAL RECEIVED: ____

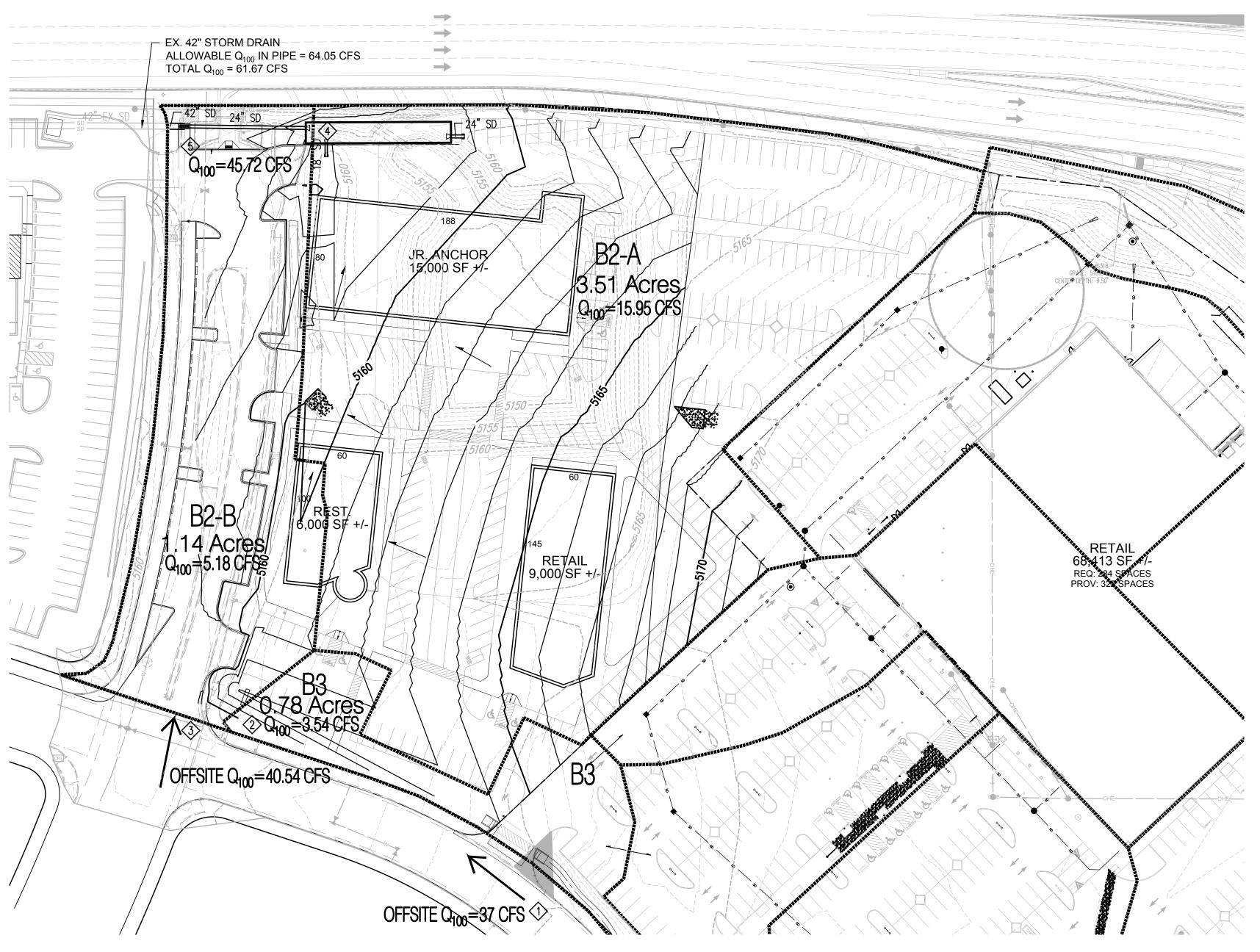














FEMA FIRM MAP 35001C0137H (ANNOTATED LOMR SUBMITTED 3/30/2016

OVERALL DRAINAGE NARRATIVE

EXISTING CONDITIONS:

THE SITE IS LOCATED AT THE NORTHEAST INTERSECTION OF HEADLINE BLVD AND LANG AVE. THE 4.8 ACRE SITE IS CURRENTLY DIVIDED INTO ONE PARTIALLY DEVELOPED TRACT (TRACT A-1) THAT INCLUDES A PREVIOUSLY VACATED HEADLINE BLVD. THE SITE SLOPES FROM EAST TO WEST INTO AN EXISTING RETENTION POND IN THE MIDDLE OF THE BASIN.

21-

DIAL 800-3

ENGINEER'S SEAL

REVIEW OF CITY OF ALBUQUERQUE AND NEW MEXICO DEPARTMENT OF TRANSPORTATION HYDROLOGY FILES AND REPORTS AND THE EXISTING TOPOGRAPHIC SURVEY REVEALS THE LOCATIONS OF EXISTING AND FUTURE DISCHARGE POINTS. ACCORDING TO THE "PART 2 DRAINAGE REPORT FOR THE I-25 / PASEO DEL NORTE INTERCHANGE RECONSTRUCTION DESIGN BUILD PROJECT" (HEREON REFERRED TO AS NMDOT DRAINAGE REPORT) THERE IS ONE INTENDED DISCHARGE POINT FOR THIS SITE.

THERE IS AN EXISTING 42" LOCATED AT THE NORTHWEST CORNER OF THE SITE THAT WILL BE EXTENDED FOR FUTURE USE. PER THE NMDOT DRAINAGE REPORT, THE SITE IS ANTICIPATED TO DISCHARGE TO THIS OUTFALL UNDER DEVELOPED CONDITIONS. CURRENTLY THE REMAINDER OF THE SITE DRAINS DIRECTLY TO THE EXISTING LARGE RETENTION POND.

BASED ON THE NMDOT DRAINAGE REPORT ALL EXISTING INFRASTRUCTURE CURRENTLY IN PLACE TO SERVE THE SITE WILL ALLOW FOR FREE DISCHARGE WITH NO DETENTION REQUIREMENTS.

OFFSITE DRAINAGE CONSIDERATIONS

PER THE NMDOT DRAINAGE REPORT, THERE IS CURRENTLY 37 CFS WITHIN LANG AVE. THAT HEADS WEST AND NORTH INTO HEADLINE AND EVENTUALLY INTO THE EXISTING RETENTION POND. THIS DRAINAGE WILL ULTIMATELY OUTFALL DIRECTLY INTO THE EXISTING 42" PUBLIC STORM DRAIN SOUTH OF PASEO DEL NORTE.

FEMA FLOOD MAP CONSIDERATIONS

PER THE RECENTLY REVISED FEMA MAP PANEL 35001C0137H, THE SITE NO LONGER LIES WITHIN A DESIGNATED FEMA FLOOD ZONE DUE TO THE RECENT IMPROVEMENTS ASSOCIATED WITH THE PASEO/I-25

PROPOSED CONDITIONS:

CONSTRUCTION.

THE SITE WILL BE DEVELOPED IN PHASES, WITH HEADLINE BLVD BEING PAVED FIRST. THIS PLAN IS ADHERING WITH THE OVERALL DRAINAGE MANAGEMENT PLAN FOR LEGACY @ JOURNAL CENTER DATED 8.26.16 (HEREON REFERRED TO LEGACY MASTER PLAN), COA HYDROLOGY FILE # D17/D106.

ONSITE BASINS WILL BE DIVIDED INTO TWO CATEGORIES. ONSITE BASINS B2-A & B2-B WILL OUTFALL INTO THE EXISTING PUBLIC 42" STORM DRAIN AT THE NORTHWEST CORNER OF THE SITE AND A SMALLER BASIN 3 WILL HAVE TO OUTFALL DIRECTLY INTO LANG AVE, WHICH ULTIMATELY DRAINS TO THE EXISTING 42" PUBLIC STORM DRAIN VIA SURFACE FLOW. SUBBASINS FOR B2 HAVE BEEN SHOWN BASED ON THE CURRENT GRADING AND DRAINAGE (SEE BASIN MAP AND ULTIMATE DEVELOPED CONDITIONS BASIN TABLE FROM THE LEGACY MASTER PLAN). PONDS AND WATER HARVESTING AREAS WILL BE CONSTRUCTED WITHIN BASIN B2 TO AIDE IN ACHIEVING THE FIRST FLUSH REQUIREMENTS.

BASINS B2-A & B2-B WILL DISCHARGE APPROXIMATELY 21.1 CFS TO EXISTING CITY OF ALBUQUERQUE STORM DRAIN SYSTEM PARALLELING PASEO DEL NORTE. THIS IS LESS THAN THE ALLOWABLE Q WHICH IS 30 CFS. AN ONSITE POND IS BEING INSTALLED IN THIS PHASE TO ACCOUNT FOR THE FUTURE DEVELOPED FLOW CONDITIONS OF BASIN B2-A AND TO AIDE IN ACHIEVING THE CITY OF ALBUQUERQUE'S FIRST FLUSH REQUIREMENTS. IN THE INTERIM, THE FLOW FROM BASIN B2-A WILL BE CONVEYED TO THE POND VIA SHEET FLOW TO A PROPOSED SWALE WHICH DISCHARGES TO THE PROPOSED POND AND ULTIMATELY TO THE EXISTING 42" STORM DRAIN.

A SMALL BASIN (BASIN 3) WILL DISCHARGE
APPROXIMATELY 3.5 CFS DIRECTLY TO LANG AND AS
NOTED ABOVE WILL DRAIN WEST AND THEN NORTH INTO
THE VACATED HEADLINE ROAD WHERE IT WILL ENTER
THE EXISTING 42" STORM DRAIN VIA PROPOSED INLET.
THIS DOUBLE "D" INLET IS SIZED TO ALLOW FOR THE
OFFSITE FLOWS AND HEADLINE FLOWS TO DRAIN TO IT.

GIVEN THE ABOVE INFORMATION, WE ARE REQUESTING CITY HYDROLOGY APPROVAL FOR PAVING/ROUGH GRADING AND SO-19 APPROVAL.



HEADLINE BLVD CONSTRUCTION DOCUMENTS DRAINAGE MANAGEMENT PLAN

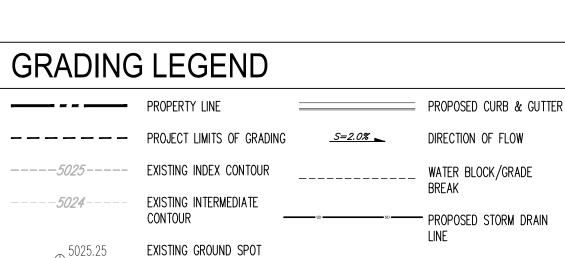
BHI PROJECT NO.	20170053	DWG NO.	C001	SHEET	1	OF	1

Legacy @ Journal Center

ULTIMATE Developed Conditions Basin Data Table

This table is based on the DPM Section 22.2, Zone: 2

Basin	Area	Area	Land	d Treatme	nt Percent	ages	Q(100yr)	Q(100yr)	Q(10yr)	V(100yr)	$V_{(100 \mathrm{yr-6hr})}$	V _(100yr-24hr)	V _(100yr-10day)	FIRST FLUSH
ID	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(CFS)	(inches)	(CF)	(CF)	(CF)	(CF)
Detailed	 Proposed	Basins												
B1-A	136778	3.14	0.0%	0.0%	10.0%	90.0%	4.54	14.27	9.41	2.02	23036	27139	27141	3488
B1-B	74923	1.72	0.0%	0.0%	10.0%	90.0%	4.54	7.82	5.15	2.02	12618	14866	14867	1911
B1-C	39640	0.91	0.0%	0.0%	10.0%	90.0%	4.54	4.14	2.73	2.02	6676	7865	7866	1011
B1-D	52272	1.20	0.0%	0.0%	10.0%	90.0%	4.54	5.45	3.60	2.02	8803	10372	10372	1333
B1-E	59242	1.36	0.0%	0.0%	10.0%	90.0%	4.54	6.18	3.30	2.02	9977	11755	11755	1511
B1-F	57499	1.32	0.0%	0.0%	50.0%	50.0%	3.92	5.17	3.96	1.63	4456	5414	5415	815
B2-A	152896	3.51	0.0%	0.0%	10.0%	90.0%	4.54	15.95	10.52	2.02	25750	30337	30339	3899
B2-B	49658	1.14	0.0%	0.0%	10.0%	90.0%	4.54	5.18	3.42	2.02	8363	9853	9854	1266
В3	33977	0.78	0.0%	0.0%	10.0%	90.0%	4.54	3.54	2.34	2.02	5722	6742	6742	866
TOTAL	656885	15.08	-	-	-	-	-	67.70	44.42	_	105403	124342	124351	16099



EXISTING INTERMEDIATE
CONTOUR

PROPOSED STORM DRAIN
LINE

5025.25

EXISTING GROUND SPOT
ELEVATION

PROPOSED STORM DRAIN
MANHOLE

PROPOSED INDEX CONTOUR

PROPOSED INTERMEDIATE
CONTOUR

PROPOSED STORM DRAIN
INLETS

PROPOSED RETAINING WALL

ULTIMATE CONDITIONS BASIN
BOUNDARY

PROPOSED RETAINING WALL

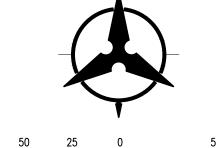
EASEMENT

ULTIMATE CONDITIONS BASIN
Q₁₀₀=0.00 CFS

ULTIMATE CONDITIONS Q

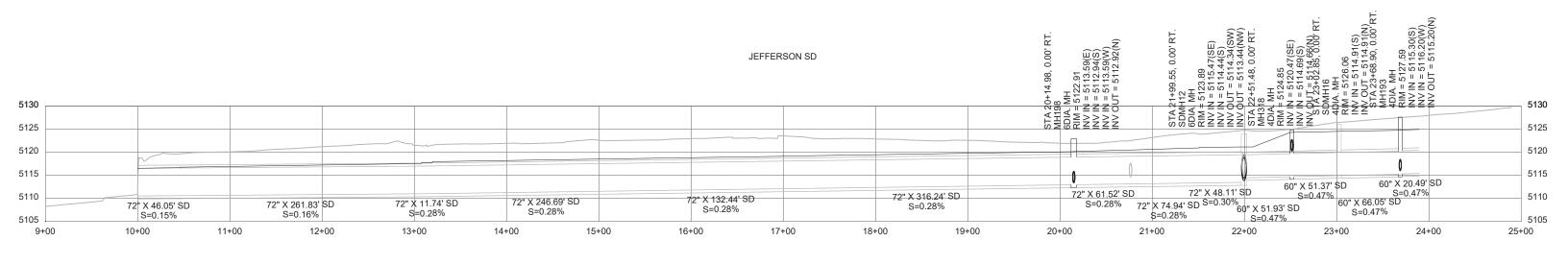
DISCHARGE POINT

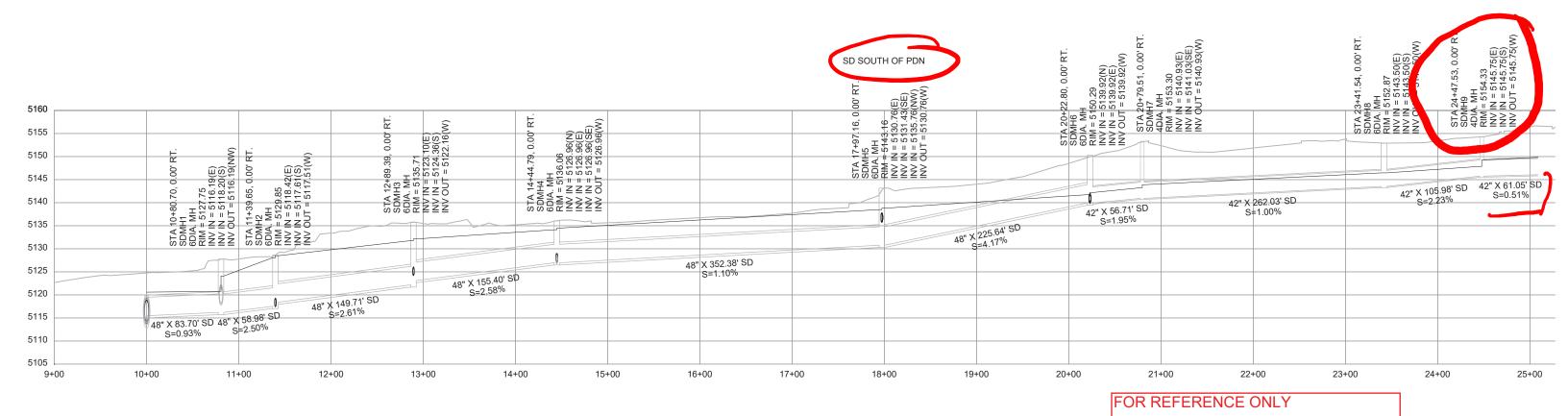
P:\20170053\CDP\Plans\General\20170053_DMP01 - Headline.dwg Tue, 21-Feb-2017 - 1:53:pm, Plotted by: ENEWMAN



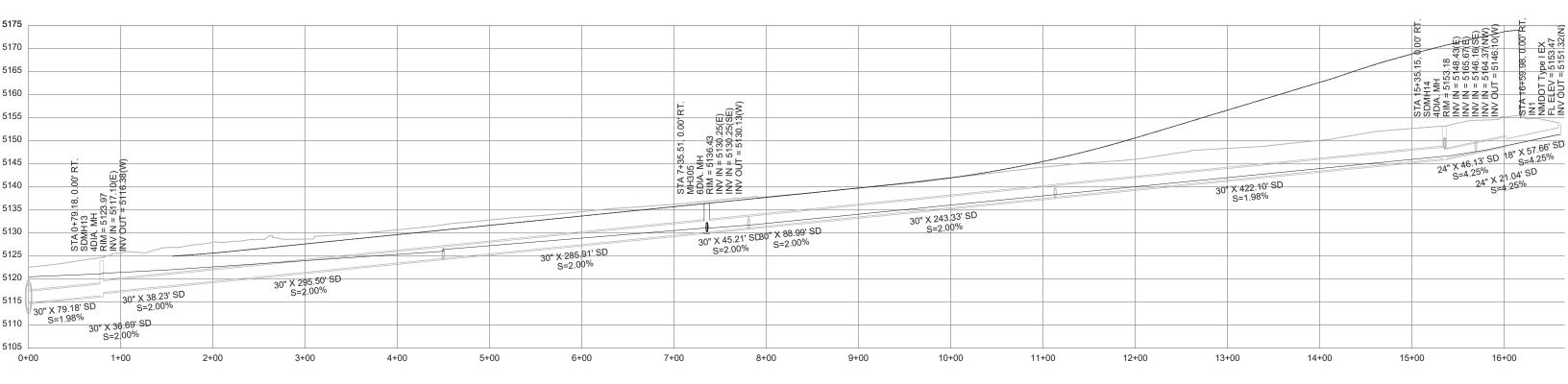
APPENDIX DP2-C STORM DRAIN HYDRAULIC CALCULATIONS











FOR REFERENCE ONLY



5170 5170 5160 5160 5150 5140 5140 42" © S=0.79% 0 S=1.00% 0 0.51% V=10.93 FRS 42" @ S=0.51% Q=64.05 CFS V=6.66 FPS5130 5130 48" @ S=1.03% Q=132.57 CFS V=13.12 5120 48° 0 S-2.60% Q-146.60 CFS V-19.50 FPS 5120 5110 5110 48° © S=2.50% 5100 CFS V=12.29 FPS 5100

TOTAL OF BASINS A-G=49.2

BASIN	AREA (AC)	Q (CFS)
Basin A	1.05	4.80
Basin B	0.71	3.25
Basin C	3.00	13.73
Basin D	3.65	16.70
Basin E	0.89	4.07
Basin F	1.18	5.40
Basin G	0.28	1.28
Basin H	0.89	4.07
Basin I	13.96	63.87
Lang Ave.		37.00*
TOTAL	25.61	154.17

* FLOW FROM 'DRAINAGE MASTER PLAN' DATED 10-31-94 BY BHI.

П	#	Q ENTER (CFS)	FLOWS FROM:
+	1	64.05	BASIN I
Ì	2	41.12	BASIN H & LANG AVE
Ì	3	5.20	BASIN F
Ì	4	1.40	BASIN G
Ì	5	4.10	BASIN E
Ì	6	16.70	BASIN D
Ì	7	13.73	BASIN C
Ì	8	3.30	BASIN B
Ì	9	4.80	BASIN A



JOURNAL CENTER EXHIBIT

AUGUST 30, 2013

Bohannan A Huston

FOR REFERENCE ONLY

