CITY OF ALBUQUERQUE

Planning Department Brennon Williams, Director



January 28, 2020

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

RE: Broadstone Highlands Mid Block- Parking Lot & Ped. Bridge

Central and Cedar NE Grading and Drainage Plan

Engineer's Stamp Date: 12/19/19 & 10/11/19

Hydrology File: K15D034D

Dear Mr. Balaskovits:

Based on the submittal received on 1/21/20 the above-referenced Grading and Drainage Plan is

approved for Grading & Building Permit.

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control

within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the

Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 924-3420) 14 days prior to

_{NM 87103} any earth disturbance.

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

www.cabq.gov

Sincerely,

Dana M. Peterson

Senior Engineer, Planning Dept. Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title:	Building P	ermit #: Hydrology File #:
		Work Order#:
Legal Description:		
City Address:		
Applicant:		Contact:
Address:		
		E-mail:
Owner:		Contact:
Address:		
		E-mail:
TYPE OF SUBMITTAL: PLA	T (# OF LOTS)	RESIDENCE DRB SITE ADMIN SITE
IS THIS A RESUBMITTAL?:	Yes	No
DEPARTMENT: TRAFFIC/ T	RANSPORTATION _	HYDROLOGY/ DRAINAGE
Check all that Apply: TYPE OF SUBMITTAL: ENGINEER/ARCHITECT CERT PAD CERTIFICATION CONCEPTUAL G & D PLAN GRADING PLAN DRAINAGE MASTER PLAN DRAINAGE REPORT FLOODPLAIN DEVELOPMENT ELEVATION CERTIFICATE CLOMR/LOMR TRAFFIC CIRCULATION LAY TRAFFIC IMPACT STUDY (TI OTHER (SPECIFY) PRE-DESIGN MEETING?	Γ PERMIT APPLIC OUT (TCL) S)	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 GRADING PERMIT APPROVAL SO-19 APPROVAL PAVING PERMIT APPROVAL GRADING/ PAD CERTIFICATION WORK ORDER APPROVAL CLOMR/LOMR FLOODPLAIN DEVELOPMENT PERMIT OTHER (SPECIFY)
DATE SURMITTED:	By:	

COA STAFF: ELECTRONIC SUBMITTAL RECEIVED:_____

FEE PAID:_____



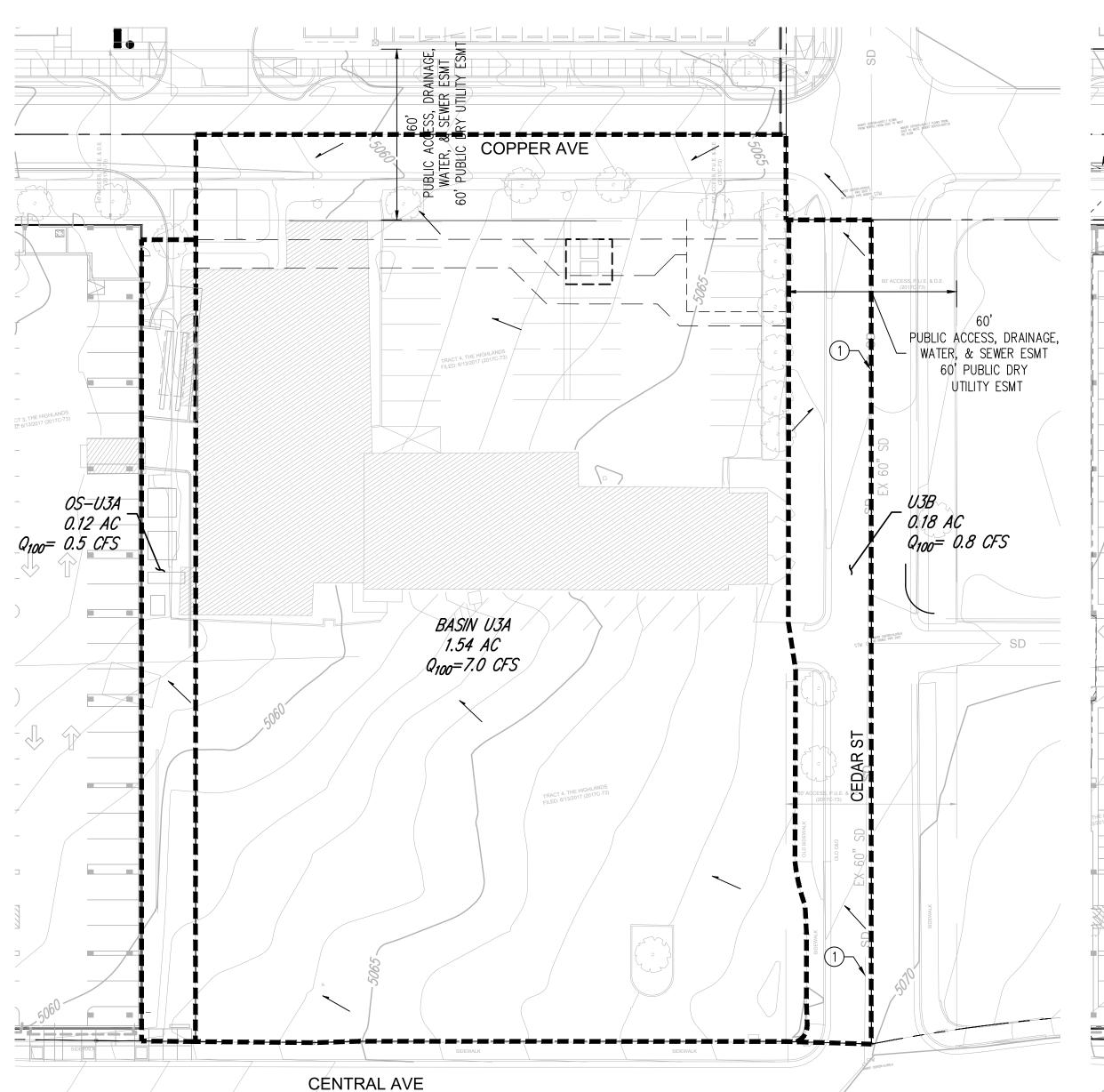
TREASURY DIVISION DAILY DEPOSIT

Transmittals for: PROJECTS Only

Payment In-Lieu for Storm Water Quality Volume Requirement

CASH COUNT	AMOUNT	ACCOUNT NUMBER	FUND NUMBER	BUSINESS UNIT	PROJECT ID	ACTIVITY ID	AMOUNT
TOTAL CHECKS	\$ 15864.00	461615	305	PCDMD	24_MS4	7547210	\$ 15864.00
TOTAL AMOUNT						TOTAL DEPOSIT	\$15864.00

TO TAL AMOUNT			
Hydrology#: K15D034D Payment In-Lieu For Storm Water Quality Volume Requirement		Broadstone Highlands Mid Block- Parking Lot Ped. Bridge, 69988 sf imp.	&
Address/Legal Description: Central and Cedar NE Tr 3A & 4, The Highlands			
DEPARTMENT NAME: Planning Department/Develop	ment Revie	w Services, Hydrology	
PREPARED BY Dana Peterson	PHONE	924-3695 DECEIVI	
BUSINESS DATE 12/13/19		JAN 21 2020	
DUAL VERIFICATION OF DEPOSIT EMPLOYEE SIGN	IATURE	LAND DEVELOPMENT SE	OTION
AND BY EMPLOYEE SIGNATURE		City the City thion ID thion ID thion ID thion ID thion ID thin ID thion ID	事事等
REMITTER:			
BANK:			imi imi
CHECK #: DATE ON CHECK: The Payment-in-Lieu can be paid at the Plaza del Son consideration of the provide a copy of the right the Hydrology submittal to PLNDRS@cabq.gov	eceipt to Hy	lydrology, Suite 201, 600 2 St. Nyv or e-m	s ail
		1 # A+N4RP 9	LL:



EXISTING CONDITIONS

			-		UNIT	COND	1110113				
				Highla	nds Midb	lock Dev	elopment				
			E	xisting De	veloped Co	nditions Ba	asin Data Tab	<i>l</i> e			
				This tabl	e is based on	the DPM Sec	tion 22.2, Zone:	2			
Basin	Area	Area	Laı	Land Treatment Percentages Q(100yr) Q(100yr) V(10				V(100yr)	V _(100yr-6hr)	V _(100yr-24hr)	
ID	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)
CURRENT ONSIT	E BASINS										
U3A	66940	1.54	0.0%	0.0%	9.0%	91.0%	4.56	7.01	2.03	11329	13360
U3B	7865	0.18	0.0%	0.0%	4.0%	96.0%	4.64	0.84	2.08	1364	1615
TOTAL	74805	1.72	-	-	-	-	-	7.84	-	12693	14975
CURRENT TRACT	 Γ3A BASINS										
OS-U3A	5353	0.12	0.0%	0.0%	18.9%	81.1%	4.41	0.54	1.93	862	1007
TOTAL	5353	0.12	-	-	-	-	-	0.54	-	862	1007
TOTAL	80158	1.84	-	-	-	-	-	8.39	-	13555	15982

Highlands Midblock Development

Proposed Developed Conditions Basin Data Table

				This table is	s based on t	he DPM Sec	tion 22.2, Zone:	2					
Basin	Area	Area	Land	d Treatme	nt Percent	ages	Q(100yr)	Q(100yr)	V(100yr)	V _(100yr-6hr)	V _(100yr-24hr)	V _(100yr-10day)	FIRST FLUSH
ID	(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	(CF)	(CF)
PROPOSED	ONSITE E	BASINS											
D3A-S-1	6640	0.15	0.0%	0.0%	23.1%	76.9%	4.34	0.66	1.89	1046	1216	1727	145
D3A-S-2	27655	0.63	0.0%	0.0%	25.3%	74.7%	4.30	2.73	1.87	4307	4996	7060	585
D3A-S-3	2219	0.05	0.0%	0.0%	10.8%	89.2%	4.53	0.23	2.01	372	438	636	56
D3A-P-1	31808	0.73	0.0%	0.0%	0.0%	100.0%	4.70	3.43	2.12	5619	6680	9860	901
D3B	11836	0.27	0.0%	0.0%	11.8%	88.2%	4.52	1.23	2.00	1975	2323	3367	296
TOTAL	80158	1.84	_	-	-	-	-	8.28	-	13321	15653	22651	1983

STORM DRAIN PIPE TABLE						
PIPE#	INLET/SD/BASIN	Size in.	Slope	Capacity*	ACTUAL FLOW cfs	
SD1	D3A-P-1	18	3.50%	19.65	3.43	
SD2	D3A-P-1	18	1.00%	10.50	3.43	
SD3	D3A-P-1, D3A-S-2	18	3.17%	18.70	5.90	
*Capacity Based or	n Manning's Eq w/ N=0.013	_				

Inlet	Inlet Type	Basin	Actual	Slope	Depth	Capacity ¹	Bypass Flow
#	illet Type		Flow (cfs)		(ft)	(cfs)	(cfs)
IN1	2'X3' Curb Inlet High Flow	D3A-S-2	2.73	5.00%	0.23	2.47	0.26
NOTE: The inlet calculations were based on the NYLOPLAST DYNAMIC INLET CAPACITY TABLE							

FILE: P:\20160155\CDP\Plans\General\20160155 DMP Highlands Midblock.dwg USER: enewman DATE: Dec. 19 2019 TIME: 09:53 am

HIGHLANDS NORTH BLOCK SEE HYDROLOGY FILE BASIN D3A-S-1 # K15D034A - 0.15 AC Q₁₀₀=0.7 CFS HIGHLANDS HOTEL SPRINGHILL SUITES SEE HYDROLOGY FILE # K15D034B PUBLIC ACCESS, DRAINAGE, WATER, & SEWER ESMT 601 PUBLIC DRY /UTILITY ESMT BASIN D3B Q₁₀₀=1.2 CFS BASIN D3A-P-1 0.23 AC Q₁₀₀=3.4 CFS **FEMA FIRM** BASIN D3A-S-3 - 0.05 AC Q₁₀₀=0.2 CFS

CENTRAL AVE

PROPOSED CONDITIONS

DRAINAGE NARRATIVE

EXISTING CONDITIONS

THIS SITE IS LOCATED AT THE NORTHWEST CORNER OF CEDAR ST NE AND CENTRAL AVE NE. IT IS CURRENTLY DEVELOPED AND SLOPES FROM SOUTHEAST TO NORTHWEST. THE DRAINAGE ULTIMATELY OUTFALLS TO COPPER AVE AND THEN TO THE EXISTING PUBLIC STORM DRAIN SYSTEM LOCATED WEST OF THE SITE, UNDER I-25. THIS SITE HAS HISTORICALLY BEEN FULLY DEVELOPED AS COMMERCIAL DEVELOPMENT.

THE SITE LIES WITHIN EXISTING ONSITE BASIN U3. BASIN U3 IS A PART OF A LARGER BASIN THAT SURFACE DRAINS TO AN EXISTING STORM DRAIN SYSTEM LOCATED WITHIN MULBERRY ST. A LARGE PORTION OF THIS BASIN SURFACE DRAINS TO THE NORTH INTO AN EXISTING TYPE 'A' INLET IN COPPER AVENUE.

THE ONSITE BASINS HAVE BEEN DELINEATED WITHIN THE PROPERTY LINE WITH TRACT 4 BASINS BEING THE ONSITE BASINS AND THE TRACT 3A BASINS ARE PROPOSED IMPROVEMENTS OUTSIDE OF THE PROPERTY LINE, BUT ARE ULTIMATELY A PART OF THE SPRINGHILL SUITES IMPROVEMENTS AND REFLECTED IN THIS DMP.

THE SPRINGHILL SUITES HOTEL (HYDRO FILE K15D034B) IS UNDER CONSTRUCTION CURRENTLY AND HAS BEEN USED AS PART OF THE DELINEATION OF THE PROPOSED BASINS.

THE TOTAL ONSITE EXISTING FLOW RATE FROM THE CURRENT DEVELOPMENT IS APPROXIMATELY 7.8 CFS. THE TOTAL OFFSITE EXISTING FLOW RATE FROM THE CURRENT DEVELOPMENT IS APPROXIMATELY 0.5 CFS. THE TOTAL EXISTING FLOW RATE IS APPROXIMATELY 8.4 CFS

PROPOSED CONDITIONS

THE DEVELOPMENT WILL INCLUDE A PEDESTRIAN BRIDGE TOWER AND PARKING LOT ALONG WITH A FUTURE CENTRAL MARKET, PLAZA AND MULTI-USE BUILDING (HEREON KNOWN AS "FUTURE DEVELOPMENT") THAT SITS AT THE INTERSECTION OF CENTRAL AVE AND CEDAR ST. NEW ONSITE STORM DRAIN WILL BE PROVIDED TO ACCOUNT FOR THE FUTURE DEVELOPED DISCHARGE FOR THE "FUTURE DEVELOPMENT". THE REMAINDER OF THE SITE WILL SHEET FLOW TO THE ONSITE STORM DRAIN OR ULTIMATELY INTO COPPER AVE. THIS IMPERVIOUS AREA OF THE SITE WILL REMAIN THE SAME AS THE HISTORIC CONDITIONS TO 90% D AND 10% C FOR DEVELOPED FLOWS. LANDSCAPED AREAS THROUGHOUT THE SITE WILL BE DEPRESSED WHERE APPLICABLE TO CAPTURE DRAINAGE IN AN ATTEMPT TO MEET THE FIRST FLUSH REQUIREMENTS, HOWEVER, THE CLIENT HAS DECIDED TO PAY CASH-IN-LIEU FOR THE FIRST FLUSH REQUIREMENTS ASSOCIATED WITH THIS SITE.

A SUBSEQUENT GRADING AND DRAINAGE PLAN WILL BE SUBMITTED IN THE FUTURE FOR THE "FUTURE DEVELOPMENT".

<u>DEVELOPED BASINS</u>

THE DEVELOPED BASINS WILL ADHERE TO THE HISTORIC FLOW WITH FEW EXCEPTIONS. THE FOLLOWING IS A DESCRIPTION OF HOW EACH DEVELOPED BASIN WILL DRAIN. PLEASE REFER TO THE "PROPOSED DEVELOPED CONDITIONS BASIN

DATA TABLE" FOR THE PROPOSED BASIN FLOWS.

BASIN D3A-S-1 INCLUDES THE LANDSCAPING, SIDEWALK, AND THE ENTRANCE TO THE SITE ADJACENT TO COPPER AVE. THIS AREA WILL CONTINUE TO SHEET FLOW TO COPPER AVE HEADING WEST INTO THE INLETS AT THE INTERSECTION OF COPPER AVE & MULBERRY ST AND BYPASS FLOW WILL CONTINUE TO OAK

BASIN D3A-S-2 INCLUDES THE PROPOSED PARKING LOT, THE PEDESTRIAN BRIDGE TOWER, AND THE ALLEY THAT SITS BETWEEN THE "FUTURE DEVELOPMENT" AND SPRINGHILL SUITES. THE ROOF DRAINAGE FROM THE PEDESTRIAN BRIDGE TOWER WILL BE CONVEYED VIA SWALE TO THE PARKING LOT AND THIS AREA WILL CONTINUE TO SHEET FLOW TO THE ONSITE INLET (CONSTRUCTED WITH THE SPRINGHILL SUITES) AND BYPASS FLOW WILL CONTINUE TO SHEET FLOW TO COPPER AVE HEADING WEST INTO THE INLETS AT THE INTERSECTION OF COPPER AVE & MULBERRY ST AND BYPASS FLOW WILL CONTINUE TO OAK ST.

BASIN D3A-S-3 INCLUDES THE PROPOSED HARDSCAPE OFF OF THE CENTRAL SIDEWALK AND WILL DRAIN TOWARDS CENTRAL AVE WHICH ULTIMATELY DISCHARGES INTO MULBERRY ST AND INTO THE EXISTING TYPE 'D' INLET.

BASIN D3A-P-1 INCLUDES THE DEVELOPED DRAINAGE FROM THE "FUTURE DEVELOPMENT". THIS FLOW WILL DISCHARGE TO A NEW 18" STORM DRAIN ONSITE VIA ROOF DRAINS AND INLETS. A SUBSEQUENT GRADING AND DRAINAGE PLAN WILL BE SUBMITTED IN THE FUTURE FOR THE "FUTURE DEVELOPMENT".

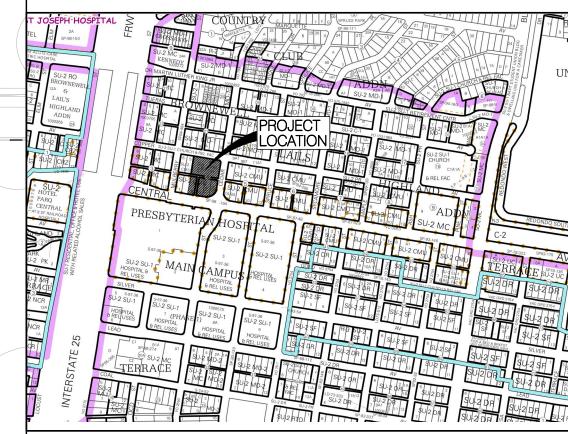
BASIN D3B INCLUDES FUTURE ON-STREET PARKING FOR THE CENTRAL MARKET AND SIDEWALK ALONG CEDAR ST. THESE IMPROVEMENTS WILL BE DETAILED ON A SUBSEQUENT GRADING AND DRAINAGE PLAN SUBMITTAL FOR THE "FUTURE DEVELOPMENT".

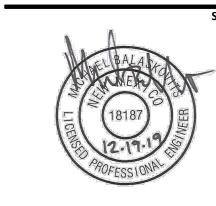
THE TOTAL ONSITE PROPOSED FLOW RATE IS APPROXIMATELY 8.3 CFS. COMPARISON OF THE FLOW BETWEEN EXISTING AND PROPOSED CONDITIONS WAS FOUND TO HAVE AN OVERALL DECREASE OF 0.1 CFS, INDICATING THAT THE DEVELOPED FLOWS NO DETENTION WOULD BE REQUIRED.

<u>CONCLUSION</u>

THE DEVELOPED FLOWS FOR THIS SITE GENERALLY REMAINS UNCHANGED FROM THE EXISTING CONDITIONS, HOWEVER THIS PLAN DIVERTS FLOWS DIRECTLY INTO THE STORM DRAIN SYSTEM VIA ROOF DRAIN CONNECTIONS. THESE ADJUSTMENTS ARE NOTED ON THE "STORM DRAIN ANALYSIS POINT COMPARISON" TABLE WHICH DEMONSTRATE THAT THE DRAINAGE ELEMENTS PROPOSED WITH THE PROJECT ARE CAPABLE OF SAFELY CONVEYING THE 100 YR, 6 HR STORM EVENT IN ACCORDANCE WITH THE DEVELOPMENT PROCESS MANUAL. WITH THIS SUBMITTAL, WE ARE REQUESTING COA HYDROLOGY APPROVAL IN SUPPORT OF BUILDING PERMIT APPROVAL FOR THE HIGHLANDS PEDESTRIAN BRIDGE TOWER AND PARKING LOT PAVING PERMIT APPROVAL.







NOT FOR CONSTRUCTION

KEYNOTES

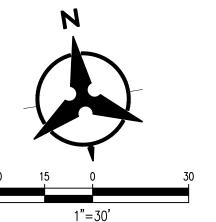
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PROPOSED CURB & GUTTER

- EXISTING STORM DRAIN TO REMAIN.
- 2. STORM DRAIN INFRASTRUCTURE CONSTRUCTED W/ PROJECT HYD #
- 3. PROPOSED NEW STORM DRAIN.
- 4. PROPOSED NEW STORM DRAIN INLET.

GRADING LEGEND

	PROJECT LIMITS OF GRADING	S=2.0%	DIRECTION OF FLOW			PROJECT		
5025	EXISTING INDEX CONTOUR		WATER BLOCK/GRADE	SPRINGHILL SU MARRIOTT ALBUQUERQUE		HILL SUITES		
5024	EXISTING INTERMEDIATE CONTOUR	i	BREAK PROPOSED STORM DRAIN LINE					
→ 5025.25	EXISTING GROUND SPOT ELEVATION	•	PROPOSED STORM DRAIN MANHOLE			PROJECT ADDRESS		
<i>5025</i>	PROPOSED INDEX CONTOUR		PROPOSED STORM DRAIN	CEN	ITRAL A	AVE. & MULBERRY ST		
5024	PROPOSED INTERMEDIATE CONTOUR		INLETS	ALBUQUERQUE, NM 87106				
⊕ ^{26.75}	PROPOSED FINISHED GRADE		PROPOSED RETAINING WALL	REV.	DATE	ISSUE		
9 20.70	SPOT ELEVATION TC=TOP OF CURB,		EASEMENT					
	FL=FLOW LINE,		EXISTING BASIN BOUNDARY					
	TS=TOP OF SIDEWALK TG=TOP OF GRATE,		PROPOSED BASIN BOUNDARY					
	FGH=FINISH GROUND HIGH, FGL=FINISH GROUND LOW	BASIN UXX	EXISTING BASIN ID					
BASIN DXX-S	PROPOSED BASIN ID-SHEET FLOW	BASIN DXX-P	PROPOSED BASIN ID-PIPED					
		N						



IMM012 PROJECT NUMBER

DRAINAGE MANAGEMENT PLAN

C-001

PROJECT

www.bhinc.com

GENERAL SHEET NOTES

ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

- . ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT, WHERE APPLICABLE, COA PUBLIC WORKS STANDARDS SHALL APPLY.
- 2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
- 3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS

INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR

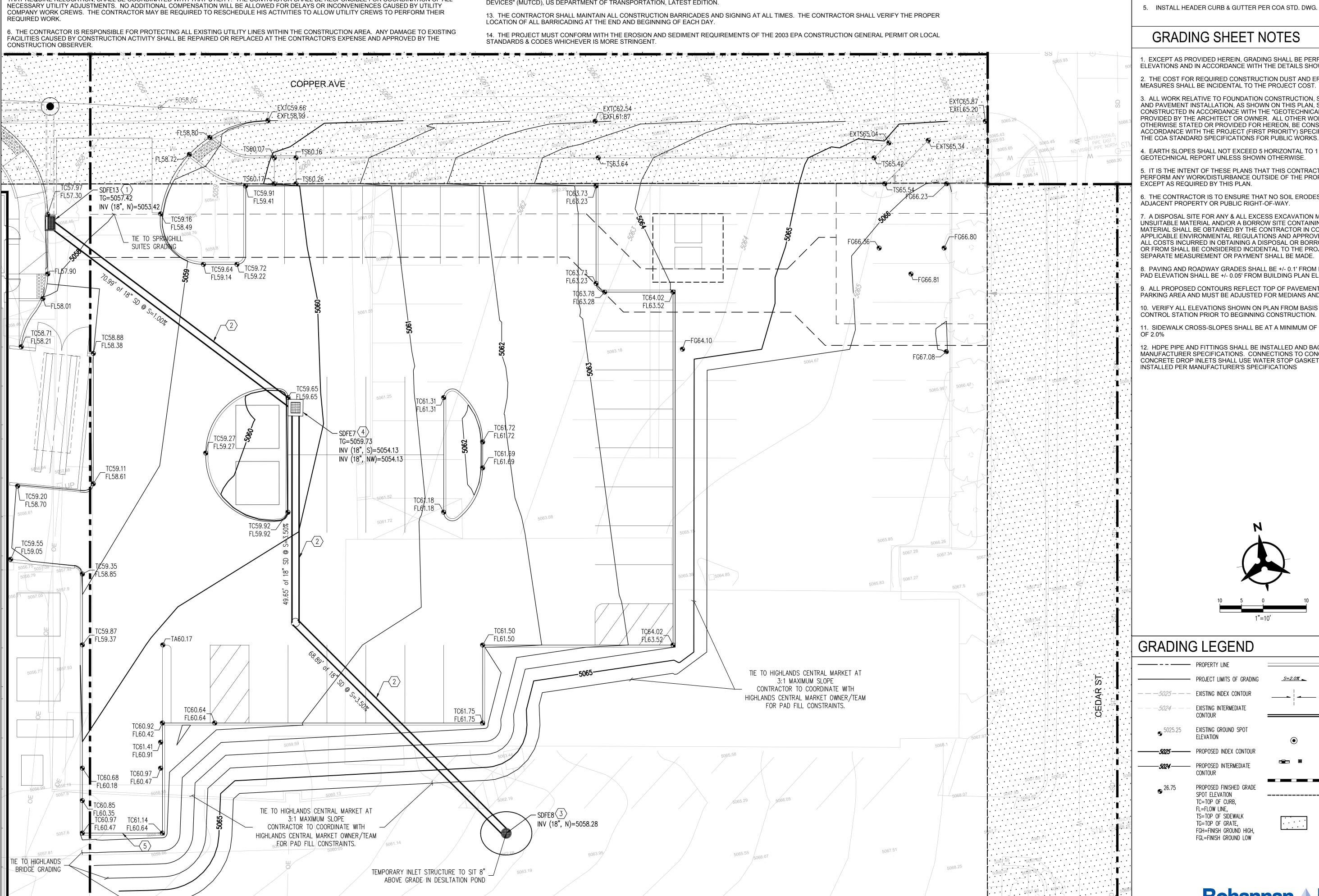
- 4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING
- 5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION. SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR

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- 7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE
- 8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
- 9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, DRIVEWAY PERMITS, ETC.).

11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE

- 10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- TRAFFIC ENGINEERING DEPARTMENT PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS. 12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL
- DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.



GRADING KEYNOTES

MANUFACTURER'S SPECIFICATIONS.

- CONNECT TO EXISTING INLET. CONTRACTOR TO VERIFY INVERT ELEVATIONS AND NOTIFY ENGINEER IMMEDIATELY IF DISCREPANCIES ARE
- 2. INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE (SIZE & SLOPE PER PLÀN).
- 3. INSTALL 18" NYLOPLAST STORM DRAIN INLET OR APPROVED EQUAL PER
- 4. INSTALL COA TYPE 'D' INLET PER COA STD. DWG. 2206.
- 5. INSTALL HEADER CURB & GUTTER PER COA STD. DWG. 2415B.

GRADING SHEET NOTES

- . EXCEPT AS PROVIDED HEREIN. GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- 2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION. AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION." AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT (FIRST PRIORITY) SPECIFICATIONS, AND/OR

4. EARTH SLOPES SHALL NOT EXCEED 5 HORIZONTAL TO 1 VERTICAL PER THE GEOTECHNICAL REPORT UNLESS SHOWN OTHERWISE

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK/DISTURBANCE OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONT ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.

7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.

ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.

10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

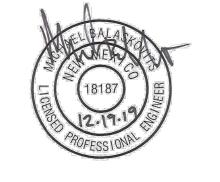
11. SIDEWALK CROSS-SLOPES SHALL BE AT A MINIMUM OF 1.0% AND A MAXIMUN

12. HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE

800 JACKSON STREET | SUITE 500 DALLAS, TEXAS 75202 214.670.0050 CONTACT: CHRISTINE ROBBINS-ELROD

5G STUDIO COLLABORATIVE

DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE THE PROPERTY OF THE ARCHITECT. THEY SHALL NOT BE USED, TRANSFERRED, OR SOLD FOR USE EXCEPT BY AN AGREEMENT IN WRITING FROM THE ARCHITECT



OWNER / DEVELOPER

TITAN DEVELOPMENT 6300 RIVERSIDE PLAZA LANE NW, STE 200 ALBUQUERQUE. NEW MEXICO 87120 505.998.0163 CONTACT: JOSH ROGERS

OWNER'S CONSULTANT / OPERATOR

INTERMOUNTAIN MANAGEMENT, LLC 2390 TOWER DRIVE MONROE, LOUISIANA 71201 318.812.7126 CONTACT: DAVE RAYMOND

CIVIL ENGINEER **BOHANNAN HUSTON** 7500 JEFFERSON STREET NE ALBUQUERQUE, NEW MEXICO 87109

505.823.1000 **CONTACT: MIKE BALASKOVITS**

CONSENSUS PLANNING, INC. 302 EIGHTH STREET NW

ALBUQUERQUE, NEW MEXICO 87102 505.764.9801

CONTACT: SALVATOR PERDOMO

PROJECT

SPRINGHILL SUITES MARRIOTT

ALBUQUERQUE

PROJECT ADDRESS **CENTRAL AVE. & MULBERRY ST ALBUQUERQUE, NM 87106** REV. DATE ISSUE

1	10/31/19	CITY REVISIONS
	-	

IMM012 PROJECT NUMBER

GRADING & DRAINAGE PLAN

C1.01

Bohannan A Huston

PROPOSED CURB & GUTTER

DIRECTION OF FLOW

WATER BLOCK/GRADE

PROPOSED STORM DRAIN

PROPOSED STORM DRAIN

60' PUBLIC ACCESS,

DRAINAGE, WATER, & SEWER

EASEMENT & 60' PUBLIC

DRY UTILITY EASEMENT

PROPOSED STORM DRAIN

MANHOLE

S=2.0%

EXISTING INTERMEDIATE

EXISTING GROUND SPOT

CONTOUR

ELEVATION

—— PROPOSED INTERMEDIATE CONTOUR

> SPOT ELEVATION TC=TOP OF CURB,

FL=FLOW LINE,

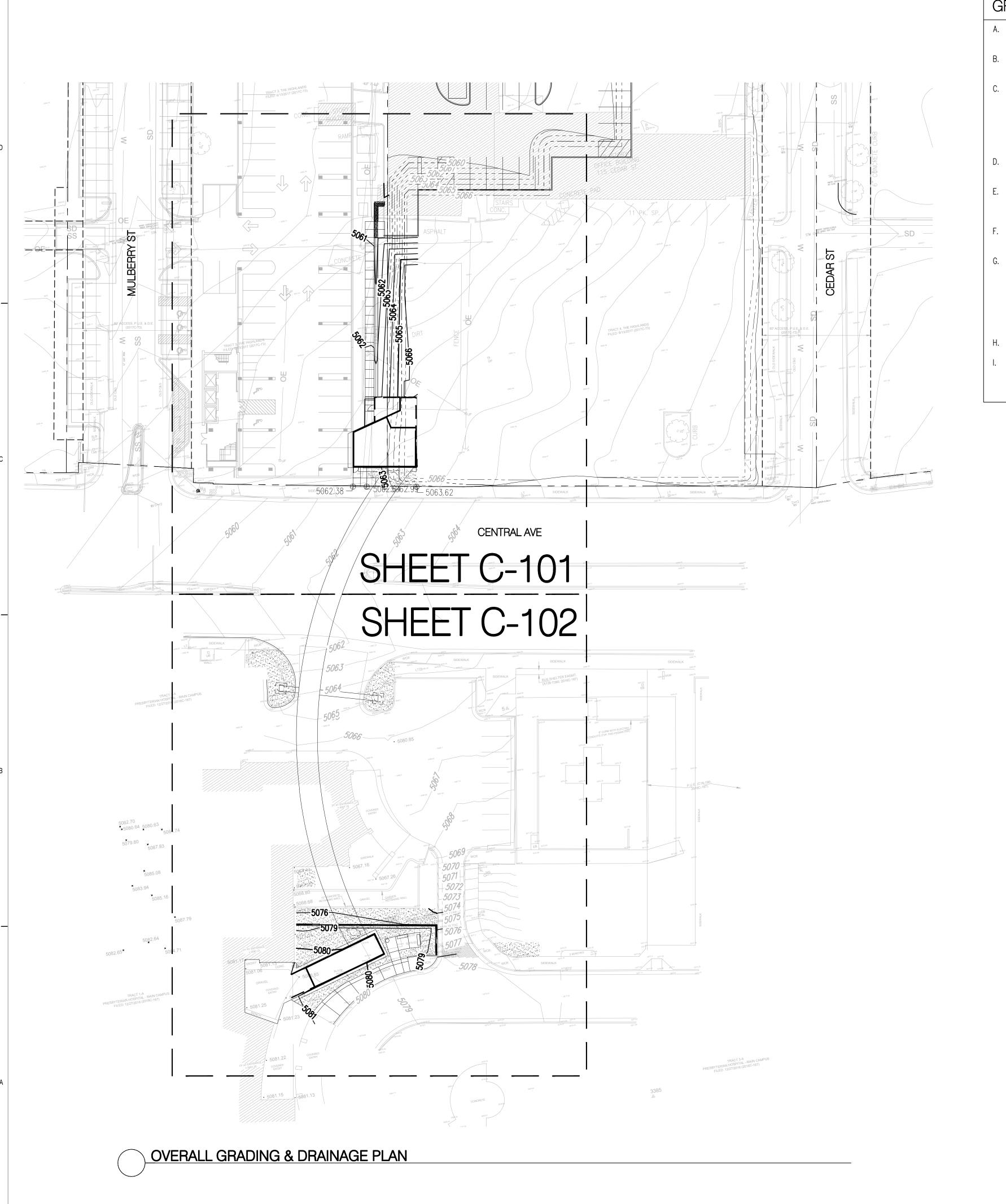
TS=TOP OF SIDEWALK

FGH=FINISH GROUND HIGH,

FGL=FINISH GROUND LOW

TG=TOP OF GRATE,

PROPOSED FINISHED GRADE



GRADING NOTES

- A. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.
- B. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- C. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION." ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS (FIRST PRIORITY), AND/OR THE ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).
- D. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.
- E. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.
- F. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY.
- G. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
- H. PAD ELEVATION SHALL BE +/- 0.05' FROM BUILDING PLAN ELEVATION.
- I. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

GENERAL NOTES

- A. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS SHALL APPLY.
- B. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- D. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
- ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
- F. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
- G. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- H. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT—OF—WAY.
- THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).
- J. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
- K. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE BERNALILLO COUNTY, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- L. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
- M. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
- N. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.
- O. THE CONTRACTOR SHALL PROVIDE 1 HARD COPY AND 1 ELECTRONIC COPY OF THE EPA STORM WATER POLLUTION PREVENTION PLAN ALONG WITH THE APPROPRIATE SUBMITTAL FEE TO CITY OF ALBUQUERQUE TWO WEEKS PRIOR TO THE START OF SITE DISTURBANCE.

LEGEND

PROPERTY LINE

SEXISTING CONTOURS

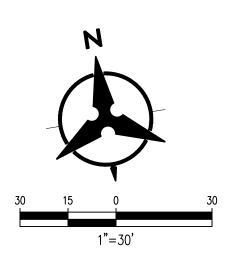
EXISTING CONTOURS

PROPOSED SPOT ELEVATION
TC=TOP OF CURB, FL=FLOW LINE
TS=TOP OF SIDEWALK, TA=TOP OF ASPHALT
EX=EXISTING, FG=FINISHED GRADE
TG=TOP OF GRATE, INV=INVERT

PROPOSED DIRECTION OF FLOW
WATER BLOCK / RIDGE OR HIGH POINT

PROPOSED INDEX CONTOURS
PROPOSED INTER CONTOURS

PROPOSED STORM DRAIN LINE



PROPOSED STORM DRAIN MANHOLE

PROPOSED STORM DRAIN INLET





ARCHITECTURE DESIGN INSPIRATION

SEAL



PROJECT

GHLANDS DEVELOPMENT
PEDESTRIAN BRIDGE
CENTRAL AVE. & CEDAR AVE. SE
ALBUQUERQUE, NM 87106

100% CONSTRUCTION DOCUMENTS

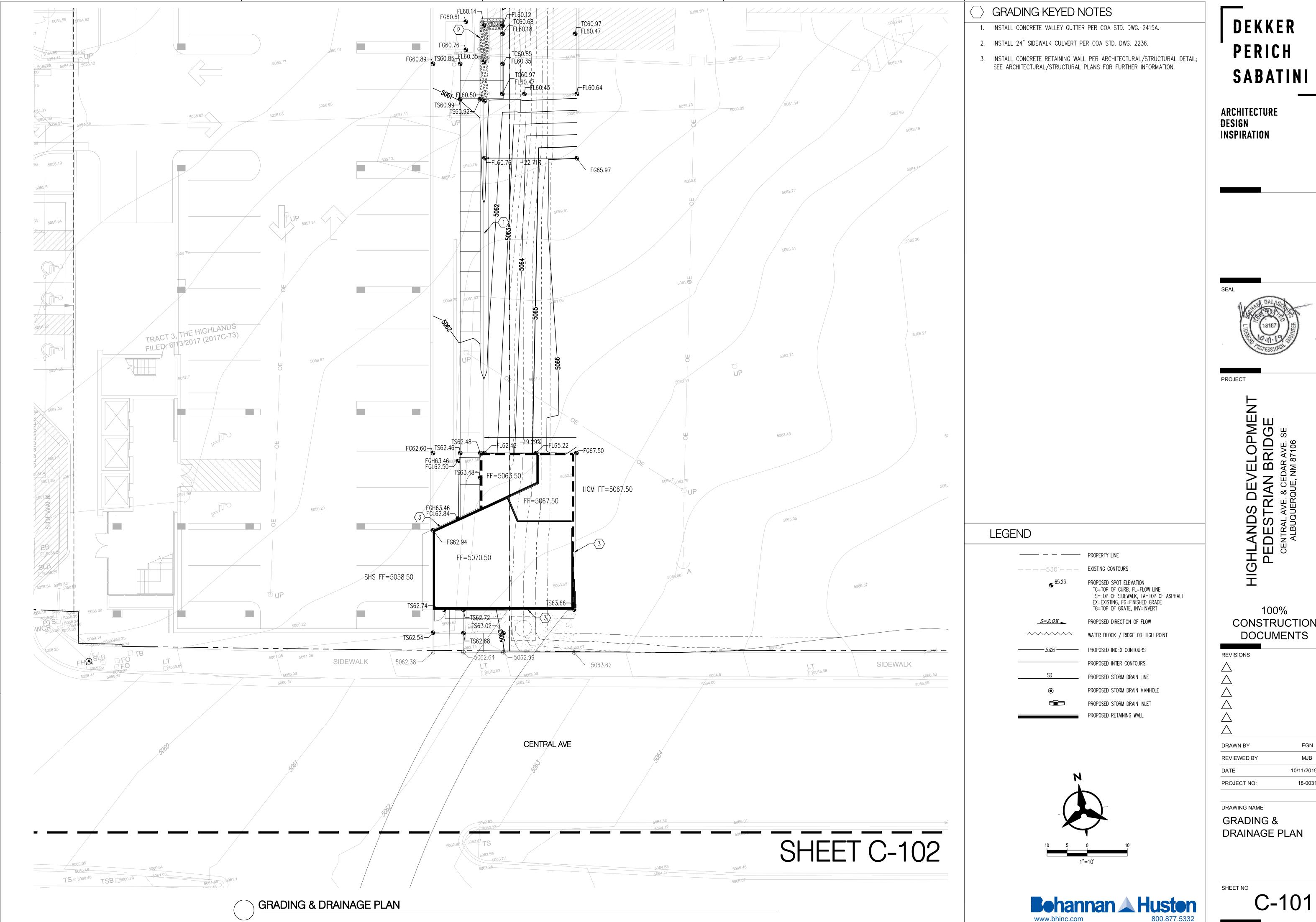
DRAWN BY	EGN
REVIEWED BY	MJB
DATE	10/11/2019
PROJECT NO:	18-0031

DRAWING NAME

OVERALL GRADING & DRAINAGE PLAN

SHEET NO

C-100

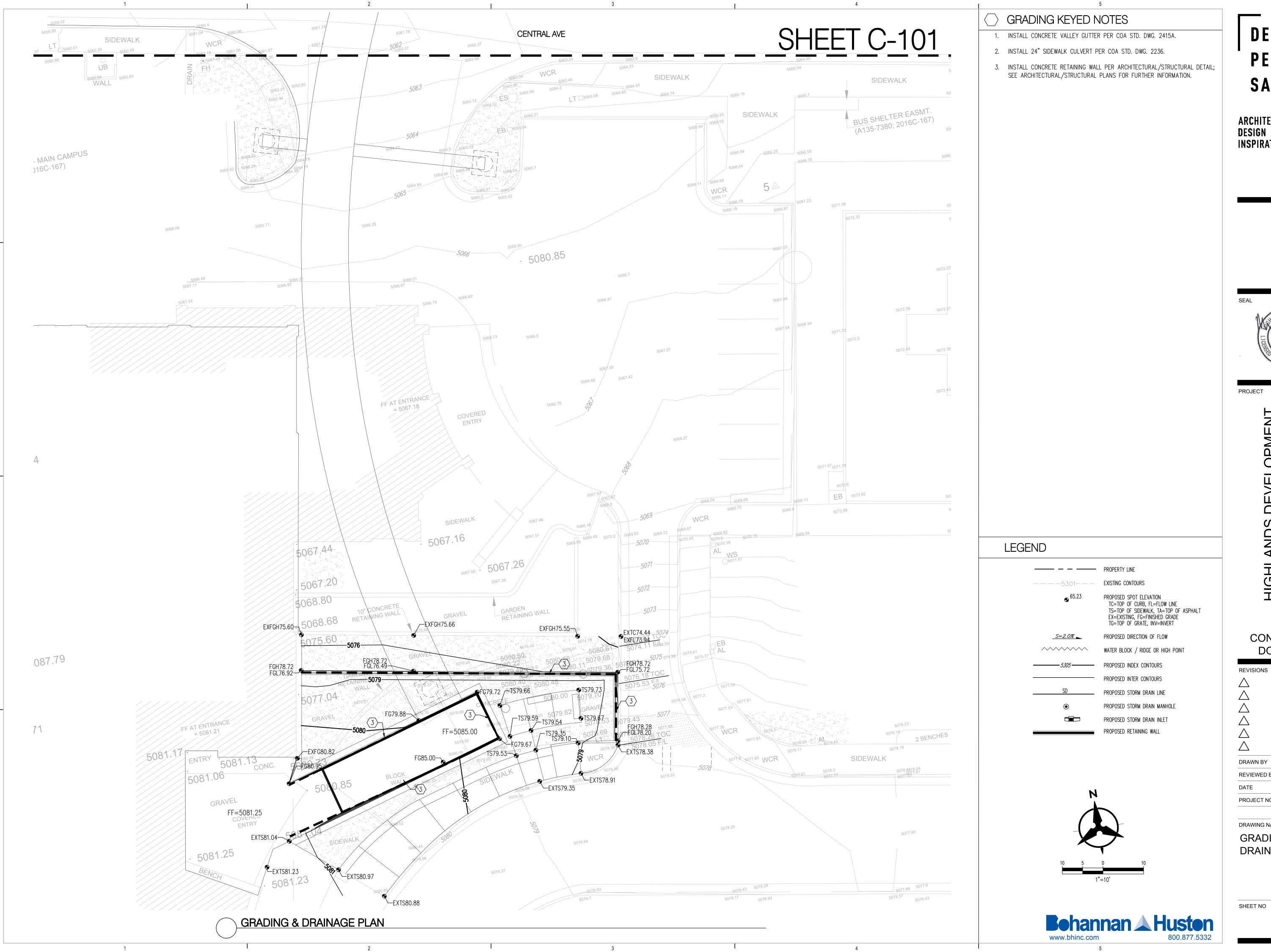


DEKKER PERICH SABATINI

CONSTRUCTION

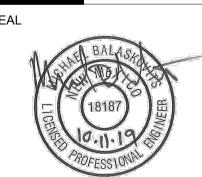
EGN MJB 10/11/2019 18-0031

DRAINAGE PLAN



DEKKER PERICH SABATINI

ARCHITECTURE DESIGN **INSPIRATION**



PROJECT

100% CONSTRUCTION **DOCUMENTS**

DRAWN BY

EGN MJB REVIEWED BY 10/11/2019 PROJECT NO: 18-0031

DRAWING NAME

GRADING & DRAINAGE PLAN

SHEET NO C-102