

# CITY OF ALBUQUERQUE

Planning Department  
David Campbell, Director



Mayor Timothy M. Keller

December 18, 2018

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

**RE: Broadstone Highlands Hotel Block- Springhill Suites  
Central and Mulberry NE  
Grading and Drainage Plan  
Engineer's Stamp Date: 11/28/18  
Hydrology File: K15D034B**

Dear Mr. Balaskovits:

PO Box 1293

Based on the submittal received on 12/12/18 the above-referenced Grading and Drainage Plan is approved for Building Permit.

Albuquerque

Prior to Certificate of Occupancy (For Information):

NM 87103

1. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.
2. City acceptance and close-out of the public Work Order will be required, unless a financial guarantee has been posted.

www.cabq.gov

If you have any questions, please contact me at 924-3695 or [dpeterson@cabq.gov](mailto:dpeterson@cabq.gov).

Sincerely,

Dana M. Peterson  
Senior Engineer, Planning Dept.  
Development Review Services



City of Albuquerque Treasury  
J-24 Deposit

Date: 12/7/2018 Office: ANNEX  
Station ID Cashier: E39083  
Batch: 9861 Trans: 48  
Fund: 305 Activity ID7547210  
Account: 461615 Project ID24\_MS4  
Dept ID: Bus.Unit: PCDMD

TREASURY DIVISION DAILY DEPOSIT

Transmittals for:  
PROJECTS Only

Alloc Amt: \$12,912.00  
Trans Amt: \$12,912.00  
Check Tendered : \$12,912.00

## 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	\$ 12,912.00	461615	305	PCDMD	24_MS4	7547210	\$ 12,912.00
TOTAL AMOUNT						TOTAL DEPOSIT	<b>\$12,912.00</b>

Hydrology#: K15D034B Name: Highlands Hotel (Springhill Suites), 56963sf Imp.  
Payment In-Lieu For Storm Water Quality  
Volume Requirement

Address/Legal Description: Central and Mulberry NE  
Tract 3-A, The Highlands

DEPARTMENT NAME: Planning Department/Development Review Services, Hydrology

PREPARED BY Dana Peterson PHONE 924-3695

BUSINESS DATE 6/27/18

DUAL VERIFICATION OF DEPOSIT   
EMPLOYEE SIGNATURE

AND BY \_\_\_\_\_  
EMPLOYEE SIGNATURE

REMITTER: \_\_\_\_\_  
AMOUNT: \_\_\_\_\_  
BANK: \_\_\_\_\_  
CHECK #: \_\_\_\_\_ DATE ON CHECK: \_\_\_\_\_

The Payment-in-Lieu can be paid at the Plaza del Sol Treasury, 600 2<sup>nd</sup> St. NW. **Bring two copies of this invoice to the Treasury** and provide a copy of the receipt to Hydrology, Suite 201, 600 2<sup>nd</sup> St. NW, or e-mail with the Hydrology submittal to [PLNDRS@cabq.gov](mailto:PLNDRS@cabq.gov).

DATE:12/06/2018 CK#:785 TOTAL:\$12,912.00\*\* BANK:Cedar Investors LLC(cedar)  
 PAYEE:City of Albuquerque(citofabq)

Property Account	Invoice - Date	Description	Amount
cedar 1600-0006	Hydrology#K15D034B - 12	Highlands Springhill Suites Hotel Py	12,912.00
			12,912.00

\*\*\* DUPLIC



Date: 12/7/2018  
 Office: ANNEX  
 Batch: 9861

1:45 PM

Journal

Receipt #

Account#:

J-24 Depo-

Date: 12/7/2018 0

Station ID C

Batch: 9861 T

Fund: 305 Ac

Account: 461615 Pr

Dept ID: Bu

Allloc Amt: \$12,912.0

Trans Amt: \$12,912.0

Payment Total

Transaction Total:  
 Check Tendere

=====  
 Checks presented:  
 =====

Cedar Investors LLC  
 5000 10th NE  
 Albuquerque, NM 87110

City of Albuquerque  
 PO Box 20700  
 Albuquerque, NM 87125

Thank you for y  
 Have a ni

\*\*\* DUPLIC

December 12, 2018

Mr. Dana M. Peterson, PE  
City of Albuquerque  
Planning Department  
600 2<sup>nd</sup> Street NW  
Albuquerque, NM 871

Re: Broadstone Highlands Hotel Block / Hydrology File K15D034B

Dear Mr. Peterson:

Enclosed for your review and comment is a re-submittal of the Highlands Hotel Grading & Drainage Plan. Please see the responses to your comments dated 06/27/18 below:

1. The private encroachment into the Copper public easement by the stem wall footer requires an encroachment agreement....

*Response: The building was moved slightly to the south to remove the stem wall and footer out of the existing public easement. Drainage basins remained unchanged and the proposed conditions will continue to function as previously reviewed. Since this move was completed, an encroachment agreement is no longer necessary.*

2. Payment of the fee in lieu for the first flush volume is required.....

*Response: Please see attached for the receipt associated with the payment in lieu. Please let us know if there is any further coordination necessary.*

3. The project requires and ESC plan.....

*Response: Per Curtis Cherne a NOI is required for approval. Coordination efforts with Mr. Cherne have occurred and an NOI has been filed by the owner.*

We are requesting Hydrology Approval in support of Grading Permit approval, Building Permit and public work order approval. Please feel free to contact me at 823-1000 with questions or comments.

Sincerely,



Mike Balaskovits, PE  
Vice President  
Community Development and Planning

MJB  
Enclosure



# City of Albuquerque

Planning Department  
Development & Building Services Division

## DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

**Project Title:** Highlands Hotel **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** K15/D034B  
**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_  
**Legal Description:** Tract 3-A The Highlands  
**City Address:** N/A

**Applicant:** Bohannon Huston, Inc. **Contact:** Mike Balaskovits  
**Address:** 7500 Jefferson St. NE Albuquerque, NM 87109  
**Phone#:** 505-823-1000 **Fax#:** 5005-798-7988 **E-mail:** mbalaskovits@bhinc.com

**Other Contact:** Titan Development Center Land, LLC **Contact:** Josh Rodgers  
**Address:** 6300 Riverside Plaza Land NW #200  
**Phone#:** 505-998-0163 **Fax#:** \_\_\_\_\_ **E-mail:** jrodders@titan-development.com

**TYPE OF DEVELOPMENT:**  PLAT  RESIDENCE  DRB SITE  ADMIN SITE

Check all that Apply:

**DEPARTMENT:**

- HYDROLOGY/ DRAINAGE
- TRAFFIC/ TRANSPORTATION

**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) \_\_\_\_\_

**TYPE OF SUBMITTAL:**

- ENGINEER/ARCHITECT CERTIFICATION
- PAD CERTIFICATION
- CONCEPTUAL G & D PLAN
- GRADING PLAN
- DRAINAGE REPORT
- DRAINAGE MASTER PLAN
- FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- ELEVATION CERTIFICATE
- CLOMR/LOMR
- TRAFFIC CIRCULATION LAYOUT (TCL)
- TRAFFIC IMPACT STUDY (TIS)
- STREET LIGHT LAYOUT
- OTHER (SPECIFY) \_\_\_\_\_
- PRE-DESIGN MEETING?

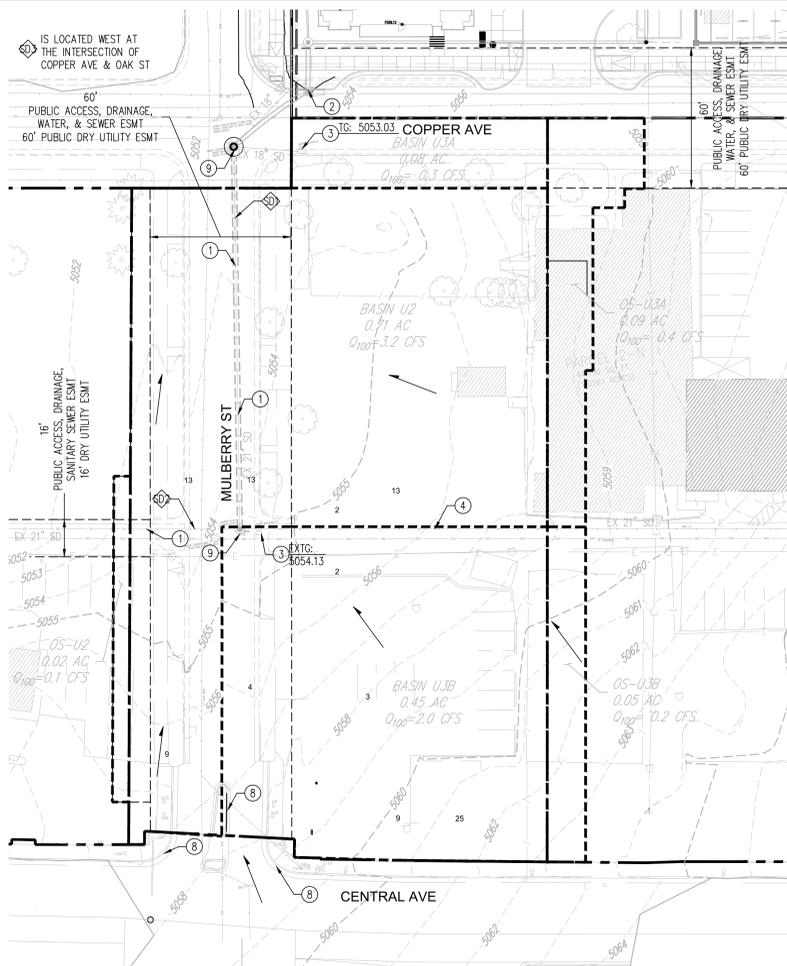
IS THIS A RESUBMITTAL?:  Yes  No

DATE SUBMITTED: 12/12/2018 By: Mike Balaskovits

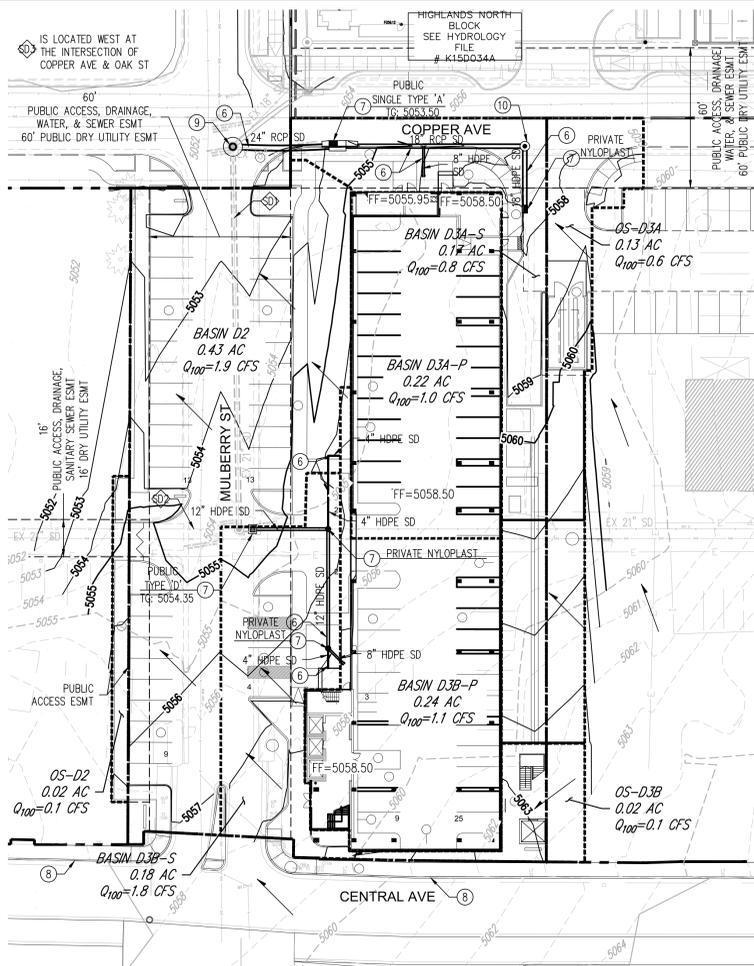
COA STAFF: \_\_\_\_\_

ELECTRONIC SUBMITTAL RECEIVED: \_\_\_\_\_

FEE PAID: \_\_\_\_\_



EXISTING CONDITIONS



PROPOSED CONDITIONS

Highlands Hotel Development											
Existing Developed Conditions Basin Data Table											
This table is based on the DPM Section 22.2, Zone: 2											
Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100yr) (cfs/ac.)	Q(100yr) (CFS)	V(100yr) (inches)	V(100yr-6hr) (CF)	V(100yr-24hr) (CF)
			A	B	C	D					
<b>CURRENT ONSITE BASINS</b>											
U2	30848	0.71	0.0%	0.0%	15.0%	85.0%	4.47	3.16	1.97	5068	5942
U3A	3267	0.08	0.0%	0.0%	15.0%	85.0%	4.47	0.33	1.97	537	629
U3B	19680	0.45	0.0%	0.0%	15.0%	85.0%	4.47	2.02	1.97	3233	3791
<b>TOTAL</b>	<b>53795</b>	<b>1.23</b>	-	-	-	-	-	<b>5.52</b>	-	<b>8838</b>	<b>10362</b>
<b>CURRENT OFFSITE BASINS</b>											
OS-U2	978	0.02	0.0%	0.0%	0.0%	100.0%	4.70	0.11	2.12	173	205
OS-U3A	3943	0.09	0.0%	0.0%	20.0%	80.0%	4.39	0.40	1.92	632	737
OS-U3B	2341	0.05	0.0%	0.0%	20.0%	80.0%	4.39	0.24	1.92	375	437
<b>TOTAL</b>	<b>7262</b>	<b>0.17</b>	-	-	-	-	-	<b>0.74</b>	-	<b>1179</b>	<b>1379</b>

Highlands Hotel Development													
Proposed Developed Conditions Basin Data Table													
This table is based on the DPM Section 22.2, Zone: 2													
Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages				Q(100yr) (cfs/ac.)	Q(100yr) (CFS)	V(100yr) (inches)	V(100yr-6hr) (CF)	V(100yr-24hr) (CF)	V(100yr-10day) (CF)	FIRST FLUSH (CF)
			A	B	C	D							
<b>PROPOSED ONSITE BASINS</b>													
D2	18549	0.43	0.0%	0.0%	10.0%	90.0%	4.54	1.93	2.02	3124	3680	5350	473
D3A-P	9578	0.22	0.0%	0.0%	0.0%	100.0%	4.70	1.03	2.12	1692	2011	2969	271
D3A-S	7618	0.17	0.0%	0.0%	10.0%	90.0%	4.54	0.79	2.02	1283	1512	2197	194
D3B-P	10302	0.24	0.0%	0.0%	0.0%	100.0%	4.70	1.11	2.12	1820	2163	3194	292
D3B-S	7748	0.18	0.0%	0.0%	10.0%	90.0%	4.54	0.81	2.02	1305	1537	2235	198
<b>TOTAL</b>	<b>53795</b>	<b>1.23</b>	-	-	-	-	-	<b>5.68</b>	-	<b>9224</b>	<b>10904</b>	<b>15944</b>	<b>1428</b>
<b>PROPOSED OFFSITE BASINS</b>													
OS-D2	978	0.02	0.0%	0.0%	0.0%	100.0%	4.70	0.11	2.12	173	205	303	28
OS-D3A	5455	0.13	0.0%	0.0%	10.0%	90.0%	4.54	0.57	2.02	919	1082	1573	139
OS-D3B	829	0.02	0.0%	0.0%	10.0%	90.0%	4.54	0.09	2.02	140	164	239	21
<b>TOTAL</b>	<b>7262</b>	<b>0.17</b>	-	-	-	-	-	<b>0.76</b>	-	<b>1231</b>	<b>1452</b>	<b>2116</b>	<b>188</b>

STORM DRAIN ANALYSIS POINT COMPARISON						
AP ID	Pipe Size	Existing Contributing Basins	Proposed Contributing Basins	Project Existing Conditions Q(100yr) (CFS)	Project Proposed Conditions Q(100yr) (CFS)	Difference from Existing Conditions to Proposed Conditions Q(100yr) (CFS)
SD1	21"	U3A, OS-U3A	D3A-P, D3A-S, OS-D3A	0.73	2.40	+1.67
SD2	21"	U3B, OS-U3B	SD1, D3B-P, D3B-S, OS-D3B	2.99	4.40	+1.41
SD3 (IN OAK ST)	24"	U2, OS-U2	D2, OS-D2	3.27	2.04	-1.23

NOTE: '+' indicates an increase in Q from existing to proposed. '-' indicates a decrease in Q from existing to proposed. In the event the proposed increase of flow in SD2 (1.41 CFS) were to exceed the existing capacity of the pipe, the flow would continue to SD3 which occurs today.

### DRAINAGE NARRATIVE

#### EXISTING CONDITIONS

THIS SITE IS LOCATED AT THE NORTHEAST CORNER OF MULBERRY ST NE AND CENTRAL AVE NE. IT IS CURRENTLY DEVELOPED AND SLOPES FROM SOUTHEAST TO NORTHWEST. THE DRAINAGE ULTIMATELY OUTFALLS 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 TWO EXISTING ONSITE BASINS, U2 & U3. BASIN U2 IS A PART OF A LARGER BASIN THAT SURFACE DRAINS NORTH IN MULBERRY ST TO COPPER AVE AND WEST TO AN INLET IN OAK ST. THIS STORM DRAIN SYSTEM ULTIMATELY HEADS WEST UNDER I-25. BASIN U3 IS ALSO A PART OF A LARGER BASIN THAT SURFACE DRAINS TO AN EXISTING 21" STORM DRAIN SYSTEM LOCATED WITHIN THE ALLEY WEST OF THE SITE. PORTIONS OF THIS BASIN DRAIN TO THE NORTH INTO AN EXISTING TYPE 'C' INLET IN COPPER AVENUE AND WEST INTO AN EXISTING MODIFIED TYPE 'D' INLET AT THE INTERSECTION OF THE ALLEY AND MULBERRY STREET DISCHARGE INTO THIS SYSTEM.

THE ONSITE BASINS HAVE BEEN DELINEATED WITHIN THE PROPERTY LINE AND THE OFFSITE BASINS ARE PROPOSED IMPROVEMENTS OUTSIDE OF THE PROPERTY LINE, BUT ARE ULTIMATELY A PART OF THE EXISTING BASINS U2 & U3.

THE TOTAL ONSITE EXISTING FLOW RATE FROM THE CURRENT DEVELOPMENT IS APPROXIMATELY 5.5 CFS. THE TOTAL OFFSITE EXISTING FLOW RATE FROM THE CURRENT DEVELOPMENT IS APPROXIMATELY 0.7 CFS.

#### PROPOSED CONDITIONS

THE DEVELOPMENT WILL INCLUDE A NEW HOTEL THAT SITS AT THE NORTHEAST INTERSECTION OF CENTRAL AVE AND MULBERRY ST. ON STREET PARKING WILL BE PROVIDED AS A RESULT OF THIS PROJECT. TWO EXISTING STORM DRAIN INLETS WILL BE REMOVED AND RELOCATED AS A RESULT OF NEW CURB AND GUTTER IMPROVEMENTS AND GRADING. THIS IMPERVIOUS AREA OF THE SITE WILL INCREASE SLIGHTLY OVER 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, ULTIMATELY THE CLIENT HAS DECIDED TO PAY CASH-IN-LIEU FOR THE FIRST FLUSH REQUIREMENTS.

#### DEVELOPED BASINS

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 D2 INCLUDES A PORTION OF THE SITE'S PROPOSED PARKING IMPROVEMENTS AS WELL AS MULBERRY ST. THIS AREA WILL CONTINUE TO SHEET FLOW TO COPPER AVE HEADING WEST INTO THE INLETS AT COPPER AVE AND OAK ST.

OFFSITE BASIN OS-D2 INCLUDES A PORTION OF SITE'S PROPOSED SIDEWALK TO THE WEST OF MULBERRY ST. THIS SIDEWALK HAS BEEN GRANTED A PUBLIC ACCESS EASEMENT AND WILL SHEET FLOW INTO MULBERRY ST AND CONTINUE TO THE INLET AT OAK ST.

BASIN D3A-P INCLUDES ROOF DRAINAGE FROM THE HOTEL THAT WILL BE PIPED DIRECTLY INTO THE COPPER AVE PROPOSED RELOCATED INLET WHICH ULTIMATELY TIES TO THE EXISTING 21" RCP LINE THAT RUNS IN MULBERRY ST.

BASIN D3A-S INCLUDES A PORTION OF THE SITE'S EASTERN HARDSCAPE AND LANDSCAPING FEATURES WHICH WILL CONTINUE TO SHEET FLOW INTO THE PROPOSED RELOCATED INLET WITHIN COPPER AVE AND INTO A PROPOSED PRIVATE INLET ONSITE.

OFFSITE BASIN OS-D3A INCLUDES A PORTION OF THE SITE'S ENTRANCE, TRASH ENCLOSURE, & HARDSCAPE BETWEEN THE PROPOSED DEVELOPMENT TO THE EAST. THIS AREA WILL SHEET FLOW TO A PROPOSED PRIVATE INLET ONSITE. THIS PROPOSED PRIVATE INLET COULD BE UTILIZED TO CAPTURE DRAINAGE FROM THE ADJACENT PARCEL IN THE FUTURE AS IT CURRENTLY DRAINS TO THE SAME DISCHARGE POINT. A SMALL PORTION OF DRAINAGE WILL CONTINUE TO SHEET FLOW INTO COPPER AVE AND COLLECTED WITH THE PROPOSED RELOCATED INLET (THE DUMPSTER ENCLOSURE WILL HAVE A SEPARATE DRAIN THAT CONNECTS TO THE SANITARY SEWER SERVICE).

BASIN D3B-P INCLUDES ROOF DRAINAGE FROM THE HOTEL THAT WILL BE PIPED INTO THE PROPOSED RELOCATED INLET WITHIN MULBERRY WHICH ULTIMATELY TIES TO THE EXISTING 21" RCP LINE THAT RUNS WEST THROUGH THE EXISTING ALLEY.

BASIN D3B-S INCLUDES A PORTION OF THE SITE'S HARDSCAPE, LANDSCAPE, PROPOSED PARKING IMPROVEMENTS, AS WELL AS A PORTION OF MULBERRY ST. THIS AREA CONTINUES TO SHEET FLOW TO THE PROPOSED RELOCATED INLET WITHIN MULBERRY ST.

OFFSITE BASIN OS-D3B INCLUDES PROPOSED HARDSCAPE AREA OFF OF THE CENTRAL SIDEWALK AND WILL DRAIN TOWARDS CENTRAL AVE WHICH ULTIMATELY DISCHARGES INTO MULBERRY ST & INTO THE PROPOSED RELOCATED TYPE 'D' INLET.

THE TOTAL ONSITE PROPOSED FLOW RATE FROM THE PROPOSED DEVELOPMENT IS APPROXIMATELY 5.7 CFS. COMPARISON OF THE FLOW BETWEEN EXISTING AND PROPOSED CONDITIONS WAS FOUND TO HAVE AN OVERALL INCREASE OF 0.2 CFS, INDICATING THAT THE DEVELOPED FLOWS HAVE INCREASED THE PROPOSED DEVELOPED FLOWS BY LESS THAN 2%.

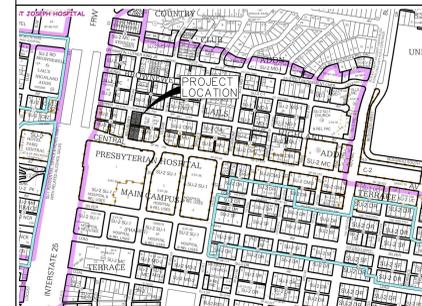
TO ACCOUNT FOR THE OFFSITE DRAINAGE FROM THE PARCEL TO THE EAST IN THE INTERIM CONDITION (PRIOR TO DEVELOPMENT OF THIS SITE), THE SITE WILL BE GRADED TO DRAIN TO THE NORTH AS IT DOES HISTORICALLY TODAY TO AVOID IMPACT ON THE HOTEL SITE. A SEPARATE GRADING AND DRAINAGE PLAN WILL BE PROVIDED IN THE FUTURE.

#### CONCLUSION

THE DEVELOPED FLOWS FOR THIS SITE GENERALLY REMAINS UNCHANGED FROM THE EXISTING CONDITIONS, HOWEVER THIS PLAN DIVERTS FLOWS DIRECTLY INTO THE RELOCATED INLETS FROM THE PROPOSED BUILDING. 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 AND WORK ORDER APPROVAL.

### VICINITY MAP

ZONE MAP K-15-Z



FEMA FIRM MAP # 35001C0334G

### KEYNOTES

- EXISTING STORM DRAIN TO REMAIN.
- STORM DRAIN INLET AND IMPROVEMENTS TO BE CONSTRUCTED AS A PART OF PROJECT DRB #1010879 / CPN # 764782.
- EXISTING INLET TO BE REMOVED AND RELOCATED.
- EXISTING STORM DRAIN TO BE REMOVED.
- EXISTING STORM DRAIN INLET TO BE REMOVED.
- PROPOSED NEW STORM DRAIN.
- PROPOSED NEW STORM DRAIN INLET.
- EXISTING ART CURB & GUTTER CONSTRUCTED WITH ART PROJECT.
- MANHOLE TO BE CONSTRUCTED AS A PART OF PROJECT DRB # 1010879 / CPN # 764782.
- PROPOSED NEW STORM DRAIN MANHOLE.

### GRADING LEGEND

---	PROPERTY LINE	---	PROPOSED CURB & GUTTER
---	PROJECT LIMITS OF GRADING	-2.0%	DIRECTION OF FLOW
---	EXISTING INDEX CONTOUR	+	WATER BLOCK/GRADE BREAK
---	EXISTING INTERMEDIATE CONTOUR	---	PROPOSED STORM DRAIN LINE
●	EXISTING GROUND SPOT ELEVATION	○	PROPOSED STORM DRAIN MANHOLE
---	PROPOSED INDEX CONTOUR	■	PROPOSED STORM DRAIN INLETS
---	PROPOSED INTERMEDIATE CONTOUR	---	PROPOSED RETAINING WALL
●	PROPOSED FINISHED GRADE SPOT ELEVATION	---	EASEMENT
---	TOP OF CURB, FL=FLOW LINE, TS=TOP OF SIDEWALK, TG=TOP OF GRATE, FGH=FINISH GROUND HIGH, FGL=FINISH GROUND LOW	---	EXISTING BASIN BOUNDARY
---	BASIN UXX	---	EXISTING BASIN ID
---	BASIN DXX-S	---	PROPOSED BASIN ID-SHEET FLOW
---	BASIN DXX-P	---	PROPOSED BASIN ID-PIPED FLOW

DATE	ISSUE TITLE
01/12/18	ISSUE FOR DESIGN DEVELOPMENT
04/23/18	ISSUE FOR PERMIT
06/05/18	ISSUE FOR MANHOLE/TS/B/S/SET

REV.	DATE	ISSUE TITLE
1	08/27/18	ADDITION OF ROOF DRAIN

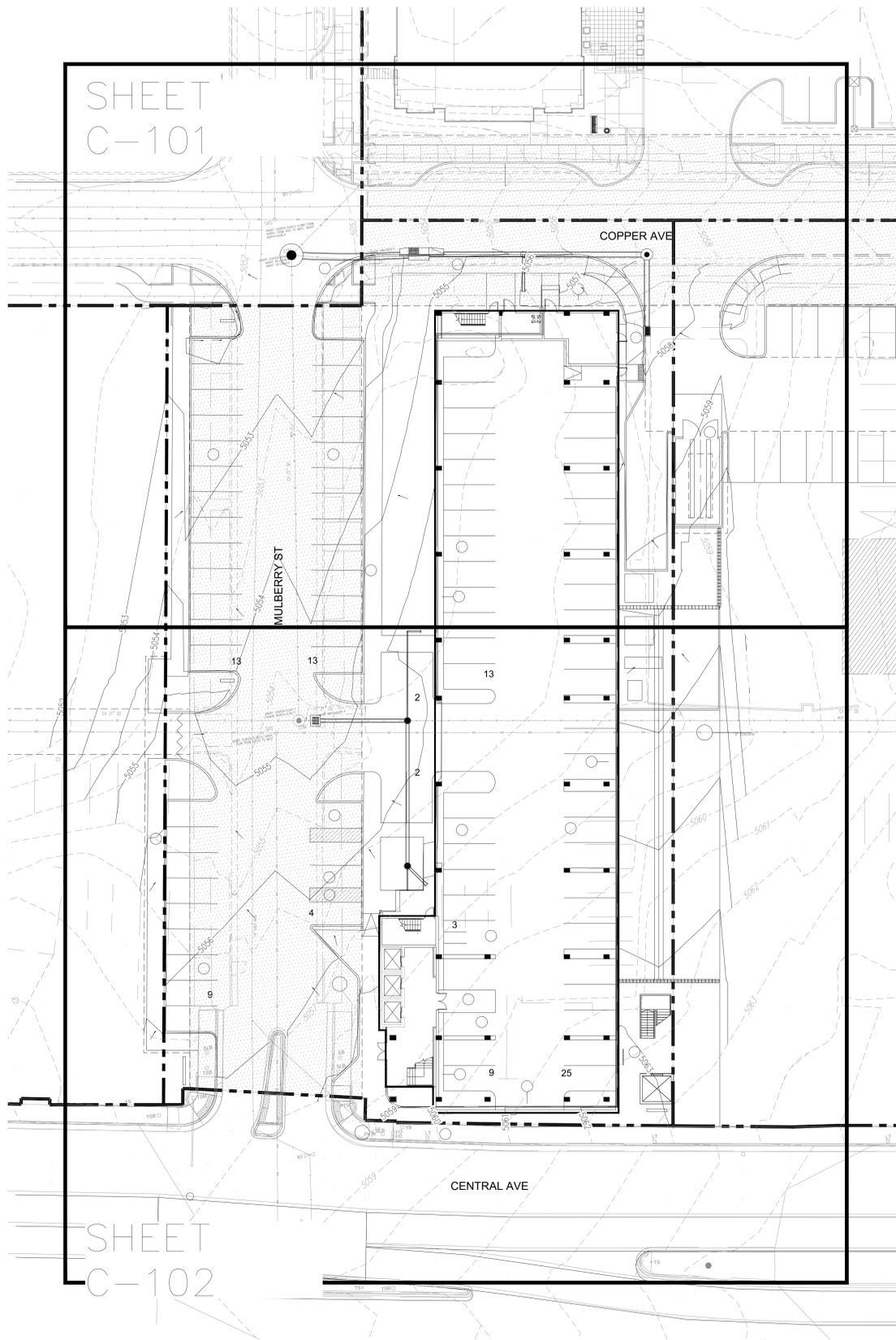


**NOT FOR CONSTRUCTION**  
 SPRINGHILL SUITES - ALBUQUERQUE  
 CENTRAL AVE. & MULBERRY ST.  
 ALBUQUERQUE, NM 87106

**DRAINAGE**  
**MANAGEMENT PLAN**

IMM012  
 PROJECT NUMBER

**C-001**  
 SHEET NUMBER



SHEET  
C-101

SHEET  
C-102

NOTE: NO WORK SHALL BE PERFORMED IN THE PUBLIC ROW AND PUBLIC EASEMENTS WITHOUT AN APPROVED PUBLIC WORK ORDER.

NOTE: ALL WORK SHOWN IN THE R/W AND PUBLIC EASEMENTS SHALL BE CONSTRUCTED PER COA PUBLIC WORK ORDER CPN #764783. GRADES SHOWN WITHIN THE R/W AND PUBLIC EASEMENTS ARE FOR REFERENCE ONLY. IF PROPOSED GRADES IN R/W DIFFER FROM ON-SITE GRADES SHOWN, CONTACT ENGINEER IMMEDIATELY.

### GENERAL SHEET NOTES

1. 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 ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
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 REQUIRED WORK.
6. 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.
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.).
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.
11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE 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.
13. 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.
14. THE PROJECT MUST CONFORM WITH THE EROSION AND SEDIMENT REQUIREMENTS OF THE 2003 EPA CONSTRUCTION GENERAL PERMIT OR LOCAL STANDARDS & CODES WHICHEVER IS MORE STRINGENT.

### GRADING SHEET NOTES

1. 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.
3. 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 THE COA STANDARD SPECIFICATIONS FOR PUBLIC WORKS.
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 ONTO 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.
9. 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 MAXIMUM OF 2.0%.
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 INSTALLED PER MANUFACTURER'S SPECIFICATIONS.



**ARCHITECT**  
5G Studio Collaborative, LLC.  
1217 Main Street  
Dallas, TX 75202  
(214) 670-0050 Christine Robbins-Elrod)

**CIVIL ENGINEER**  
Bohannon Huston  
7500 Jefferson Street NE  
Albuquerque, New Mexico 87109  
(505) 923-1000 Mike Baisakovits

**LANDSCAPE**  
Heads Up Landscaping  
7525 Second Street NW  
Albuquerque, New Mexico 87107  
(505) 558-9815 John Brady

**STRUCTURAL ENGINEER**  
MK Engineers and Associates, Inc.  
400 Chisholm Place, Suite 106  
Plano, TX 75075  
(214) 501-5364 Mohammad Kabir

**MEP ENGINEER**  
MEP Systems Design & Engineering, Inc.  
918 Dragon Street, Suite 500  
Dallas, TX 75207  
(214) 515-9225 Mark Portnoy

**INTERIOR DESIGNER**  
IRC, L.L.C.  
2360 Tower Drive, Suite 101  
Monroe, LA 71201  
(318) 812-7708 Colby Weaver Walker

**OWNER/DEVELOPER**  
Titan Development  
6300 Riverside Plaza Lane NW, Ste 200  
Albuquerque, New Mexico 87120  
(505) 958-0163 Josh Rogers

**OPERATOR**  
Intermountain Management, LLC  
2390 Tower Drive  
Monroe, Louisiana 71201  
(318) 812-7125 Dave Raymond

DATE	ISSUE TITLE
01/12/18	ISSUE FOR DESIGN DEVELOPMENT
04/27/18	ISSUE FOR PERMIT
06/08/18	ISSUE FOR MARSHOTT'S 90% SET

REV.	DATE	ISSUE TITLE
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2	08/27/18	CITY PERMIT REVIEW
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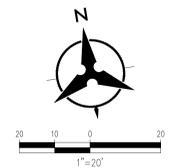


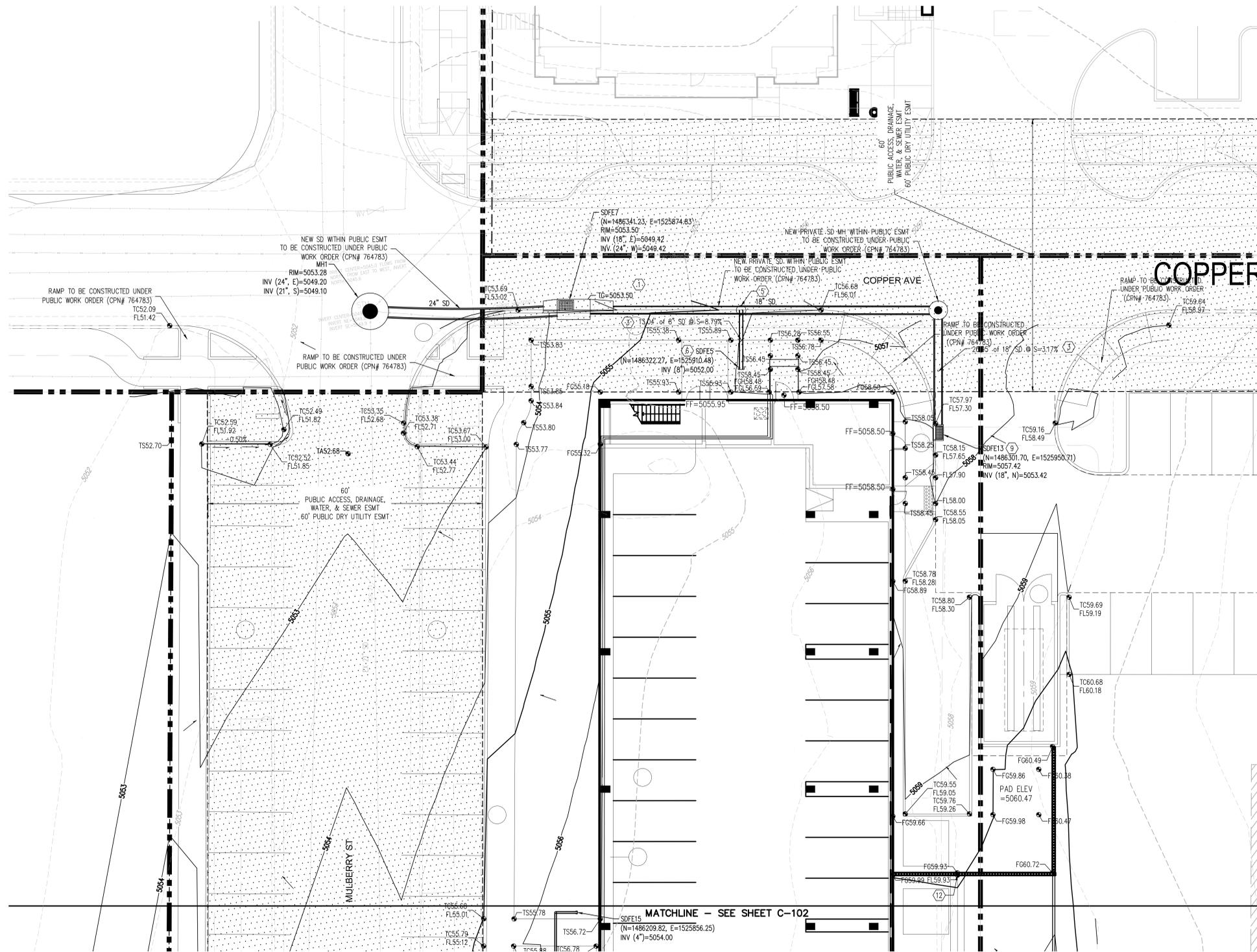
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CENTRAL AVE. & MULBERRY ST.  
ALBUQUERQUE, NM 87106

**OVERALL GRADING & DRAINAGE PLAN**

IMM012 PROJECT NUMBER **C-100** SHEET NUMBER

**Bohannon & Huston**  
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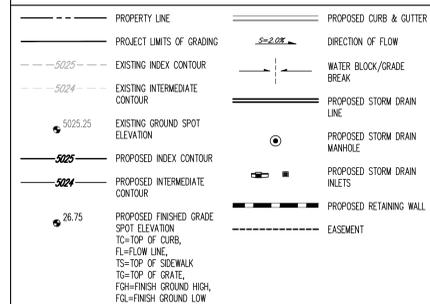




**GRADING KEYNOTES**

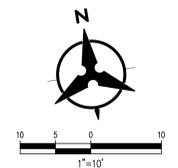
1. PUBLIC SINGLE GRATE TYPE 'A' INLET. SEE PUBLIC WORK ORDER (CPN # 764783). GRATE ELEVATION FOR REFERENCE ONLY.
2. PUBLIC TYPE 'D' INLET. SEE PUBLIC WORK ORDER (CPN #764783). GRATE ELEVATION FOR REFERENCE ONLY.
3. INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE (SIZE PER PLAN).
4. INSTALL 18" NYLOPLAST STORM DRAIN INLET OR APPROVED EQUAL PER MANUFACTURER'S SPECIFICATIONS.
5. INSTALL PRE-FABRICATED STORM DRAIN FITTING.
6. STUB PROPOSED ROOF DRAIN CONNECTIONS WITHIN 5' OF THE BUILDING. SEE PLUMBING PLANS FOR CONTINUATION. CONTRACTOR TO PROVIDE APPROPRIATE FITTINGS.
7. REMOVE EXISTING STORM DRAIN.
8. EXISTING STORM DRAIN INLET TO BE REMOVED. SEE PUBLIC WORK ORDER (CPN # 764783).
9. INSTALL 18" 2'X3' NYLOPLAST STORM DRAIN TRAFFIC RATED INLET OR APPROVED EQUAL PER MANUFACTURER'S SPECIFICATIONS.
10. INSTALL MEDIAN CURB & GUTTER PER COA STD. DWG. 2415B.
11. INSTALL HDPE (N12WT, OR APPROVED EQUAL) STORM DRAIN REDUCER FITTING (SIZE PER PLAN).
12. INSTALL 6" PVC GROUTED THROUGH WALL AT ELEVATION.
13. INSTALL 30" NYLOPLAST DRAIN BASIN AND SOLID H-20 GRATE (OR APPROVED EQUAL) PER MANUFACTURER'S SPECIFICATIONS.

**GRADING LEGEND**



NOTE: NO WORK SHALL BE PERFORMED IN THE PUBLIC ROW AND PUBLIC EASEMENTS WITHOUT AN APPROVED PUBLIC WORK ORDER.

NOTE: ALL WORK SHOWN IN THE RW AND PUBLIC EASEMENTS SHALL BE CONSTRUCTED PER COA PUBLIC WORK ORDER CPN #764783. GRADES SHOWN WITHIN THE RW AND PUBLIC EASEMENTS ARE FOR REFERENCE ONLY. IF PROPOSED GRADES IN RW DIFFER FROM ON-SITE GRADES SHOWN, CONTACT ENGINEER IMMEDIATELY.



**ARCHITECT**  
5G Studio Collaborative, LLC.  
1217 Main Street  
Dallas, TX 75202  
(214-670-0050) Christine Robbins-Eloed

**CIVIL ENGINEER**  
Bohannon Huston  
7500 Jefferson Street NE  
Albuquerque, New Mexico 87109  
(505-623-1000) Mike Balaskovits

**LANDSCAPE**  
Heads Up Landscaping  
7525 Second Street NW  
Albuquerque, New Mexico 87107  
(505-698-9815) John Braly

**STRUCTURAL ENGINEER**  
MK Engineers and Associates, Inc.  
400 Chisholm Place, Suite 106  
Plano, TX 75075  
(214-501-5354) Mohammad Kabir

**MEP ENGINEER**  
MEP Systems Design & Engineering, Inc.  
918 Dragon Street, Suite 500  
Dallas, TX 75207  
(214-515-9229) Mark Portnoy

**INTERIOR DESIGNER**  
IRC, LLC  
2360 Tower Drive, Suite 101  
Monroe, LA 71201  
(318-612-7708) Colby Weaver Walker

**OWNER/DEVELOPER**  
Titan Development  
6300 Riverside Plaza Lane NW, Ste 200  
Albuquerque, New Mexico 87120  
(505-698-0765) Josh Rogers

**OPERATOR**  
Intermountain Management, LLC  
2390 Tower Drive  
Monroe, Louisiana 71201  
(318-612-7126) Dave Raymond

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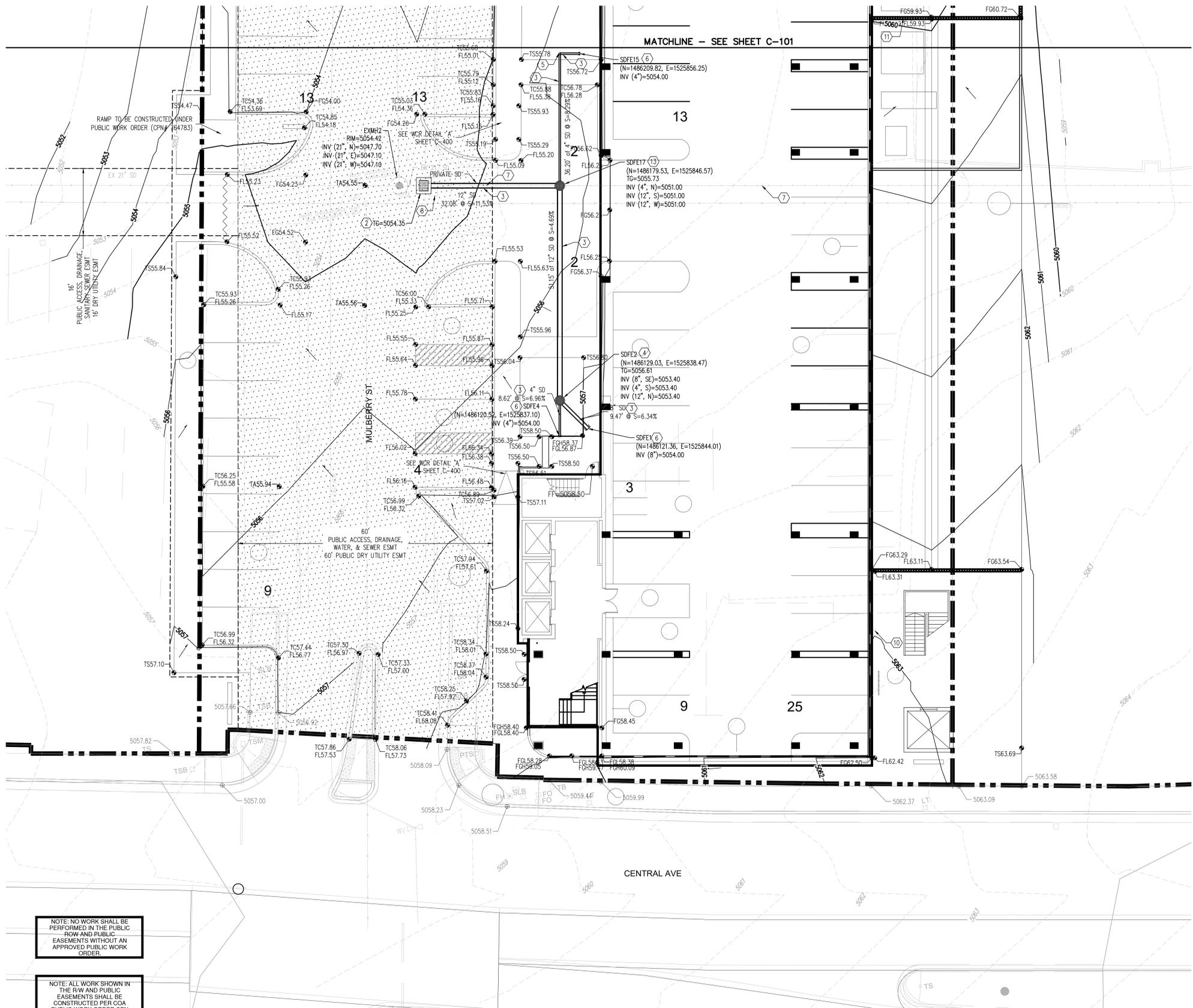
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CENTRAL AVE. & MULBERRY ST.  
ALBUQUERQUE, NM 87106

**GRADING & DRAINAGE PLAN**

IMM12 PROJECT NUMBER

**C-101** SHEET NUMBER

**Bohannon Huston**  
www.bhinc.com 800.877.5332



NOTE: NO WORK SHALL BE PERFORMED IN THE PUBLIC ROW AND PUBLIC EASEMENTS WITHOUT AN APPROVED PUBLIC WORK ORDER.

NOTE: ALL WORK SHOWN IN THE R/W AND PUBLIC EASEMENTS SHALL BE CONSTRUCTED PER COA PUBLIC WORK ORDER CPN #764783. GRADES SHOWN WITHIN THE R/W AND PUBLIC EASEMENTS ARE FOR REFERENCE ONLY. IF PROPOSED GRADES IN R/W DIFFER FROM ON-SITE GRADES SHOWN, CONTACT ENGINEER IMMEDIATELY.

### GRADING KEYNOTES

- PUBLIC SINGLE GRATE TYPE 'A' INLET. SEE PUBLIC WORK ORDER (CPN # 764783). GRATE ELEVATION FOR REFERENCE ONLY.
- PUBLIC TYPE 'D' INLET. SEE PUBLIC WORK ORDER (CPN #764783). GRATE ELEVATION FOR REFERENCE ONLY.
- INSTALL HOPE (N12WT, OR APPROVED EQUAL) STORM DRAIN PIPE (SIZE PER PLAN).
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### GRADING LEGEND

- |  |                                |
|--|--------------------------------|
| --- PROPERTY LINE  | --- PROPOSED CURB & GUTTER     |
| --- PROJECT LIMITS OF GRADING  | --- DIRECTION OF FLOW          |
| --- 5025 --- EXISTING INDEX CONTOUR  | --- WATER BLOCK/GRADE BREAK    |
| --- 5024 --- EXISTING INTERMEDIATE CONTOUR   | --- PROPOSED STORM DRAIN LINE  |
| ● 5025.25 EXISTING GROUND SPOT ELEVATION   | ● PROPOSED STORM DRAIN MANHOLE |
| --- 5025 --- PROPOSED INDEX CONTOUR  | ■ PROPOSED STORM DRAIN INLET   |
| --- 5024 --- PROPOSED INTERMEDIATE CONTOUR   | --- PROPOSED RETAINING WALL    |
| ● 26.75 PROPOSED FINISHED GRADE SPOT ELEVATION   | --- EASEMENT                   |
| TC=TOP OF CURB, FL=FLOW LINE, TS=TOP OF SIDEWALK, TG=TOP OF GRATE, FGH=FINISH GROUND HIGH, FGL=FINISH GROUND LOW |                                |



ARCHITECT  
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Dallas, TX 75202  
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LANDSCAPE  
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Albuquerque, New Mexico 87107  
(505-898-9815) John Brady

STRUCTURAL ENGINEER  
MK Engineers and Associates, Inc.  
400 Chisholm Place, Suite 106  
Plano, TX 75075  
(214-671-3364) Mohammad Kabir

MEP ENGINEER  
MEP Systems Design & Engineering, Inc.  
918 Dragon Street, Suite 500  
Dallas, TX 75207  
(214-415-9229) Mark Portnoy

INTERIOR DESIGNER  
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CENTRAL AVE. & MULBERRY ST.  
ALBUQUERQUE, NM 87106

GRADING & DRAINAGE PLAN

IMM012 PROJECT NUMBER SHEET NUMBER C-102

Bohannon Huston  
www.bhinc.com 800.877.5332

