

# City of Albuquerque Planning Department

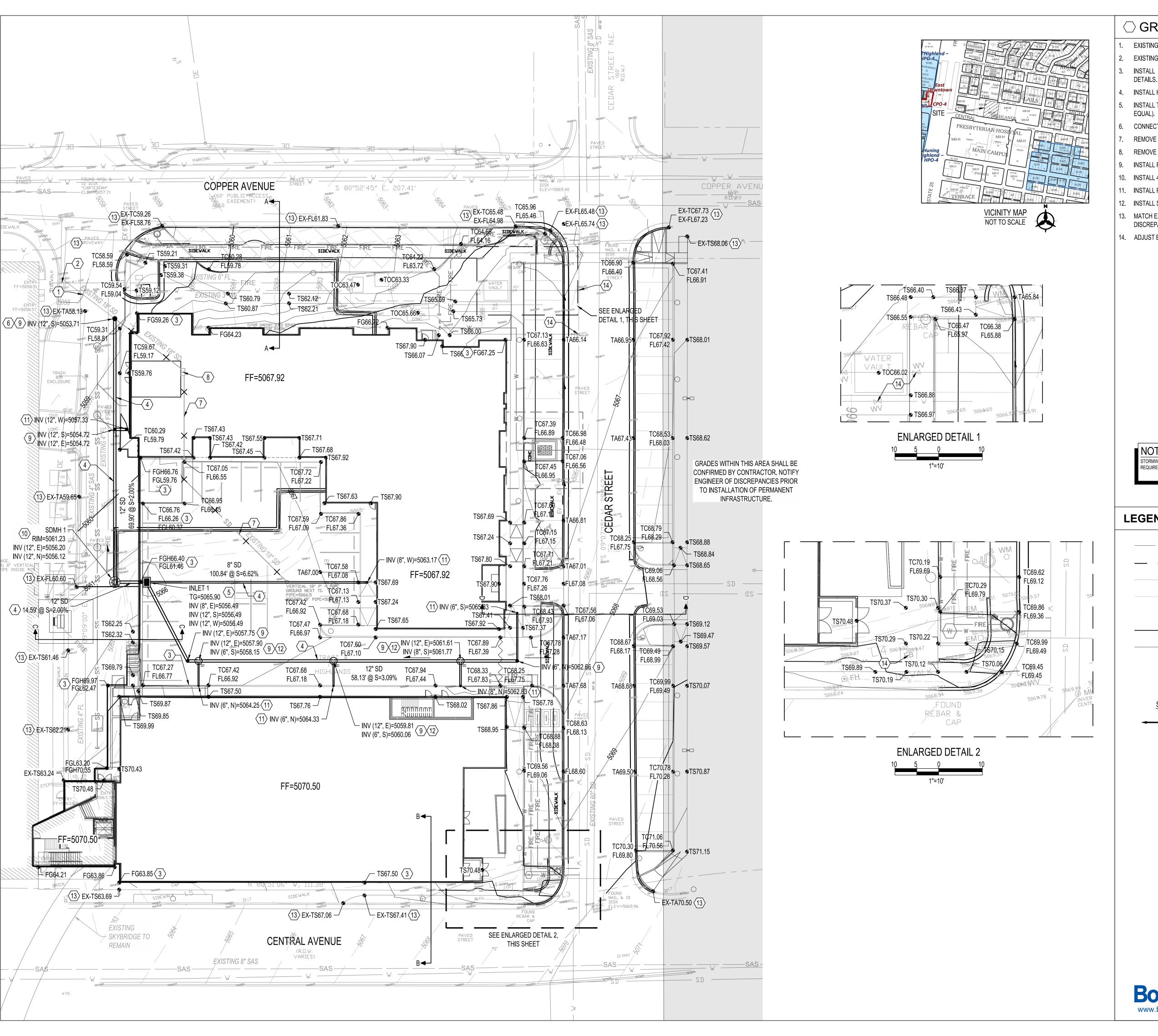
Development & Building Services Division

### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (DTIS)

		Hydrology File #				
Legal Description:						
City Address, UPC, OR Parcel:						
Applicant/Agent:		_ Contact:				
Address:		Phone:				
Email:						
Applicant/Owner:		Contact	:			
Address:						
Email:		<del></del>				
TYPE OF DEVELOPMENT:			Single Family Home			
			All other Developments			
	RE-SUBMITTAL:	YES	NO			
DEPARTMENT: TRANS	PORTATION	HYDROLO	OGY/DRAINAGE			
Check all that apply under Both	the Type of Submittal a	nd the Type	of Approval Sought:			
TYPE OF SUBMITTAL:		TYPE OF	APPROVAL SOUGHT:			
Engineering / Architect Certifica	tion	Pad Certification				
Conceptual Grading & Drainage	e Plan	Building Permit				
Grading & Drainage Plan, and/o	or Drainage	Grading Permit				
Report		Paving Permit				
Drainage Report (Work Order)		SO-19 Permit				
Drainage Master Plan		Foundation Permit				
Conditional Letter of Map Revis	ion (CLOMR)	Certificate of Occupancy - Temp Perr				
Letter of Map Revision (LOMR	)	Preliminary / Final Plat				
Floodplain Development Permit		Site Plan for Building Permit - DFT				
Traffic Circulation Layout (TCI Administrative	L) —	Work Order (DRC)				
Traffic Circulation Layout (TCI Approval	L) – DFT	Release of Financial Guarantee (ROFG) CLOMR / LOMR				
Traffic Impact Study (TIS)		Conceptual TCL - DFT				
Street Light Layout		OTHER (SPECIFY)				
		OTTLK	(51 2011 1)			

REV. 04/03/24

DATE SUBMITTED:



## □ GRADING KEYNOTES

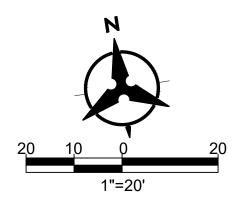
- EXISTING STORM DRAIN TO REMAIN.
- EXISTING INLET TO REMAIN.
- INSTALL RETAINING WALL. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.
- INSTALL HDPE STORM DRAIN PIPE. SEE PLAN FOR SIZE AND SLOPE.
- INSTALL TYPE "D" INLET PER COA STD DWG 2206 (OR APPROVED
- CONNECT TO EXISTING STORM DRAIN.
- REMOVE AND DISPOSE EXISTING STORM DRAIN.
- REMOVE AND DISPOSE EXISTING STORM INLET.
- INSTALL PREFABRICATED PIPE FITTING.
- INSTALL 4' DIAMETER TYPE 'C' MANHOLE PER COA STD DWG 2101.
- 1. INSTALL ROOF DRAIN TO WITHIN 5' OF BUILDING.
- 12. INSTALL STORM DRAIN CLEANOUT.
- 13. MATCH EXISTING ELEVATION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 14. ADJUST EXISTING INFRASTRUCTURE TO GRADE.

STORMWATER QUALITY CASH IN LIEU HAS PREVIOUSLY BEEN PAID AND IS NOT A

### **LEGEND**

PROPERTY LINE —— PROJECT LIMITS OF GRADING EXISTING INDEX CONTOUR EXISTING INTERMEDIATE CONTOUR EXISTING GROUND SPOT ELEVATION ------4925 ------- PROPOSED INDEX CONTOUR PROPOSED INTERMEDIATE CONTOUR XX.XX PROPOSED GRADE SPOT ELEVATION FL=FLOW LINE TC=TOP OF CURB TS=TOP OF SIDEWALK DIRECTION OF FLOW WATER BLOCK/GRADE BREAK STORM DRAIN CLEANOUT









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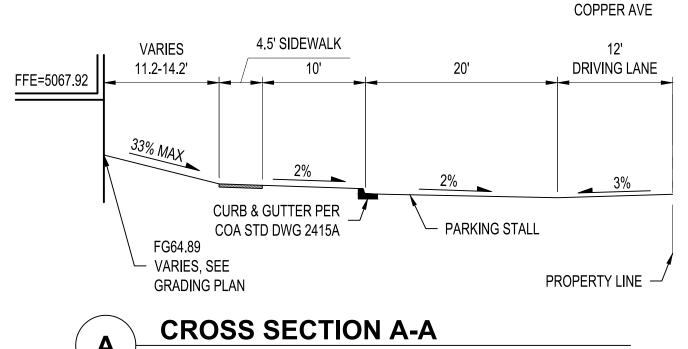
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	23-07-12	ISSUE FOR 60% CD
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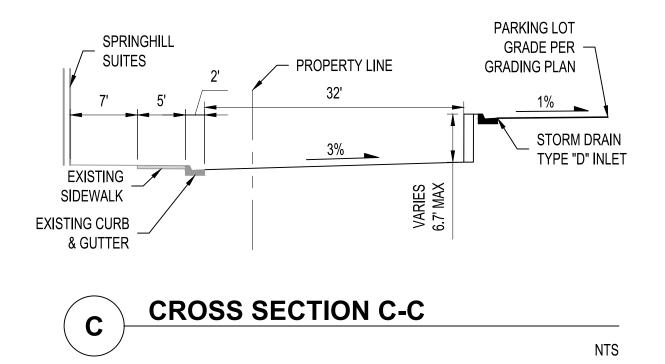
RESIDENCE INN & FOOD HALL ABQ 1111 CENTRAL AVE. NE ALBUQUERQUE, NM 87102 **GRADING PLAN** 

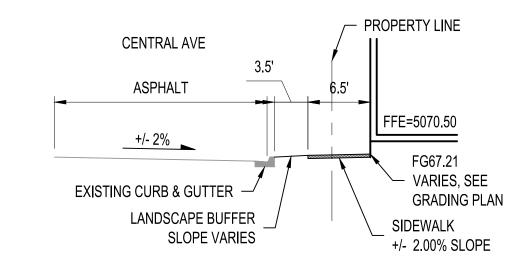
210046 PROJECT NUMBER

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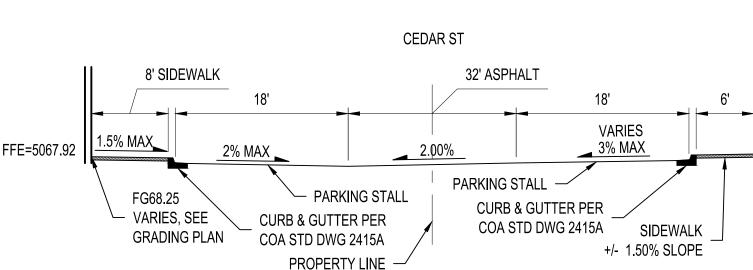














## □ GRADING KEYNOTES

- INSTALL HDPE STORM DRAIN PIPE. SEE PLAN FOR SIZE AND SLOPE.
- EQUAL).
- CONNECT TO EXISTING STORM DRAIN.
- INSTALL PREFABRICATED PIPE FITTING.

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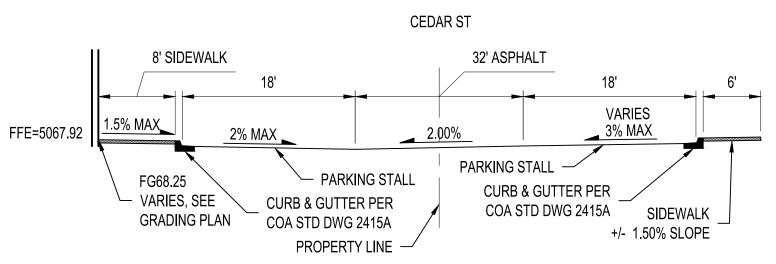
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SHEET NUMBER

GRADING DETAILS

210046 PROJECT NUMBER



EXISTING STORM DRAIN TO REMAIN. EXISTING INLET TO REMAIN.

VICINITY MAP

NOT TO SCALE

INSTALL NEW RETAINING WALL.

INSTALL TYPE "D" INLET PER COA STD DWG 2206 (OR APPROVED

REMOVE AND DISPOSE EXISTING STORM DRAIN.

REMOVE AND DISPOSE EXISTING STORM INLET.

10. INSTALL NEW TYPE 'C' MANHOLE PER COA STD DWG 2101.

11. INSTALL ROOF DRAIN TO WITHIN 5' OF BUILDING.

STORMWATER QUALITY CASH IN LIEU HAS PREVIOUSLY BEEN PAID AND IS NOT A REQUIREMENT FOR PERMITTING ON THIS PROJECT.

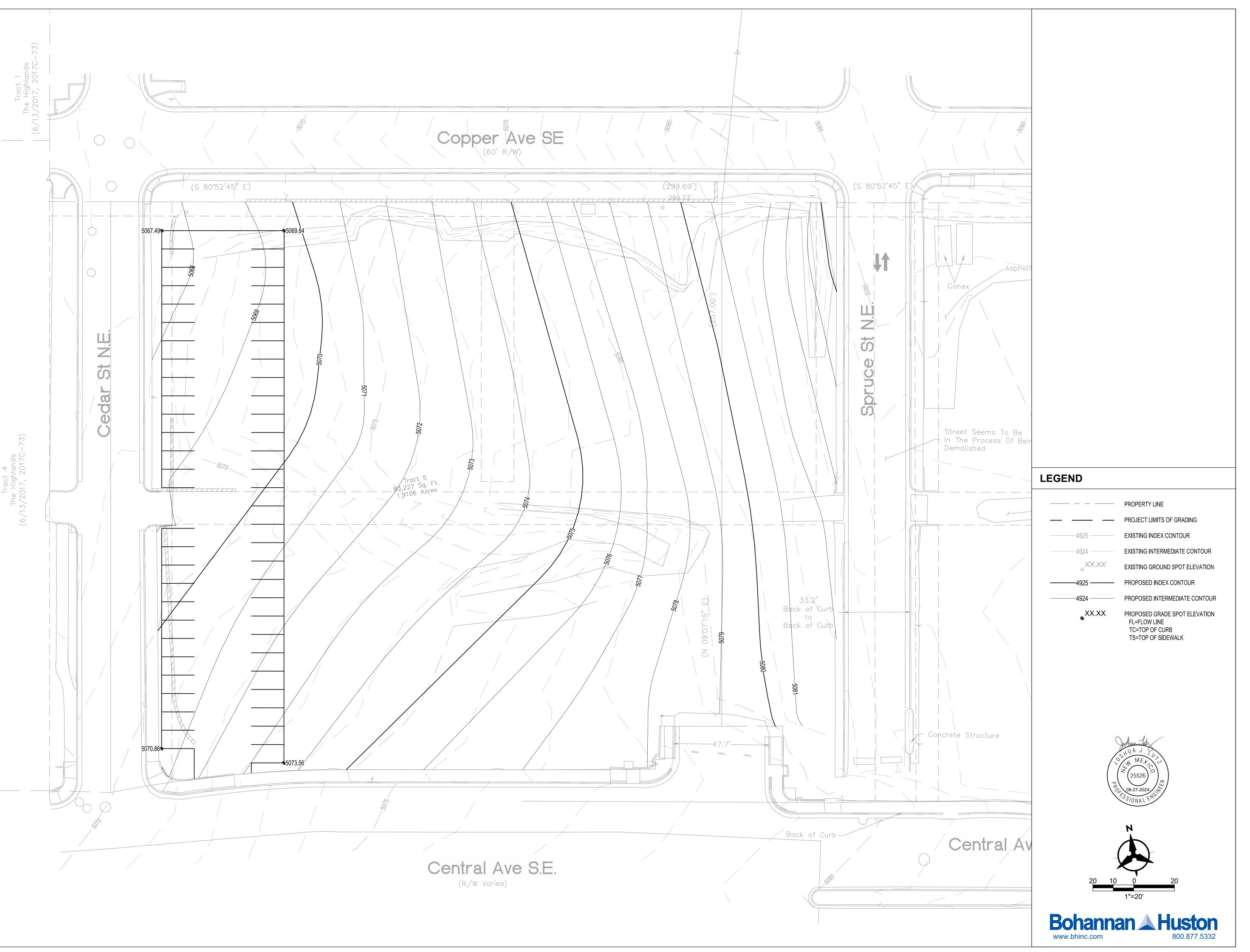
**LEGEND** 

PROPERTY LINE ---- PROJECT LIMITS OF GRADING EXISTING INDEX CONTOUR EXISTING INTERMEDIATE CONTOUR <del>------4924 ------</del> EXISTING GROUND SPOT ELEVATION ------4925 ------- PROPOSED INDEX CONTOUR 4924 — PROPOSED INTERMEDIATE CONTOUR •XX.XX PROPOSED GRADE SPOT ELEVATION

FL=FLOW LINE TC=TOP OF CURB TS=TOP OF SIDEWALK DIRECTION OF FLOW

WATER BLOCK/GRADE BREAK

Bohannan A Huston www.bhinc.com





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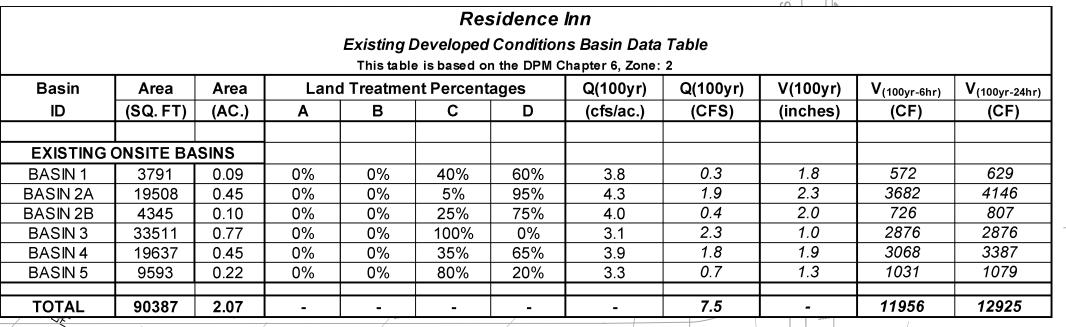
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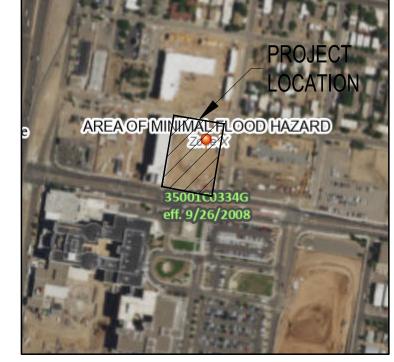
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GRADING PLAN

210046 PROJECT NUMBER C102





### FEMA MAP MAP #: 35001C0334G

## DRAINAGE NARRATIVE

#### INTRODUCTION

THE RESIDENCE INN -- ALBUQUERQUE PROJECT IS LOCATED AT THE NORTHWEST CORNER OF CENTRAL AVENUE AND CEDAR STREET. THE HYDROLOGY DOCUMENTS FOR THE SPRINGHILL SUITES (HYDRO FILE #K15D034B AND #K15D034D) ARE USED TO ANALYZE THE DRAINAGE FOR THIS SITE. THE SITE LIES WITHIN FEMA FLOODPLAIN MAP 35001C0334G, BUT IT IS NOT IN ANY FLOOD HAZARD AREA. THE SITE IS IN RAINFALL ZONE 2 PER THE ALBUQUERQUE DPM, CHAPTER 6, FIGURE

#### METHODOLGY

THE METHODOLOGY USED FOR HYDROLOGY AND HYDRAULICS CALCULATIONS ARE IN ACCORDANCE WITH THE ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, CHAPTER 6. THE SITE CONSISTS OF FIVE DRAINAGE BASINS. FOUR ANALYSIS POINTS WERE ANALYZED AS PRIMARY DISCHARGE POINTS THROUGHOUT THE SITE. LAND TREATMENT PERCENTAGES WERE CALCULATED BASED ON THE OBSERVED EXISTING CONDITIONS WITHIN EACH ONSITE BASIN. REFER TO THE "EXISTING CONDITIONS" TABLE, THIS SHEET, FOR MORE INFORMATION. THE SITE WAS ANALYZED FOR A 100-YR, 6-HR STORM EVENT USING THE RATIONAL METHOD, AS DEFINED BY THE CITY OF ALBUQUERQUE DPM.

#### **EXISTING CONDITIONS**

THE EXISTING SITE INCLUDES THE SPRINGHILL SUITES PARKING LOT, LOCATED AT THE NORTHWEST CORNER OF THE PROPERTY, AN UNDEVELOPED AREA WITH MINIMAL VEGETATION NEAR THE SOUTHEASTERN PART, THE SOUTHERN HALF OF COPPER, AND THE WESTERN HALF OF CEDAR STREET.

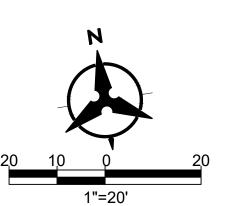
BASINS 1 SHEET FLOWS ALONG COPPER AVENUE, WHERE FLOW CONVEYS OFFSITE INTO DOWNSTREAM INLETS. BASINS 2A AND 2B INCLUDE THE FLOW THAT CONTRIBUTES TO EXISTING INLET 1 AND EXISTING INLET 2, RESPECTIVELY. THIS AREA CONSISTING OF THE SPRINGHILL SUITES PARKING LOT, PEDESTRIAN BRIDGE TOWER, AND PART OF THE UNDEVELOPED PROPERTY, CONVEYING FLOW TOWARDS THE DRIVE PAD ENTERING THE LOT. BASIN 4 IS CONVEYED TO THE EAST TOWARDS CEDAR STREET AND SHEET FLOWS NORTH TOWARDS COPPER AVENUE. BASIN 5 IS CONVEYED TO THE SOUTHWEST TOWARDS CENTRAL AVENUE, WHERE FLOW IS COLLECTED INTO INLETS OFFSITE. THE SPRINGHILL SUITES DMP (HYDRO FILE #K15D034D) WAS USED TO DETERMINE FLOW DIRECTION AND BASIN BOUNDARIES. REFER TO HYDRO FILE #K15D034B FOR OFFSITE INFORMATION AND INLET CAPACITIES.

ANALYSIS POINT #1 (AP #1) IS LOCATED AT THE DRIVE PAD ENTRANCE OFF COPPER AVENUE, WHERE BASINS 1 AND 2 CONTRIBUTE FLOW. AP #2 IS LOCATED AT THE EXISTING 18" STORM DRAIN INLET, CAPTURING FLOW FROM BASIN 3. AP #3 IS LOCATED ALONG THE CURB FLOWLINE OF CEDAR STREET, WHERE BASIN 4 CONTRIBUTES FLOW. AP#4 IS LOCATED AT THE SOUTHWEST CORNER OF BASIN 5, CONTRIBUTING ANY REMAINING FLOW TO THE LOCATION.

## **LEGEND**

	PROPERTY LINE
	PROJECT LIMITS OF GRADING
5065	EXISTING INDEX CONTOUR
5064	EXISTING INTERMEDIATE CONTOUR
5065.72 ×	EXISTING GROUND SPOT ELEVATION
5065	PROPOSED INDEX CONTOUR
5064	PROPOSED INTERMEDIATE CONTOUR
•••••	EXISTING DRAINAGE BASIN
<u>S=X.X%</u>	DIRECTION OF FLOW
<del></del>	WATER BLOCK/GRADE BREAK









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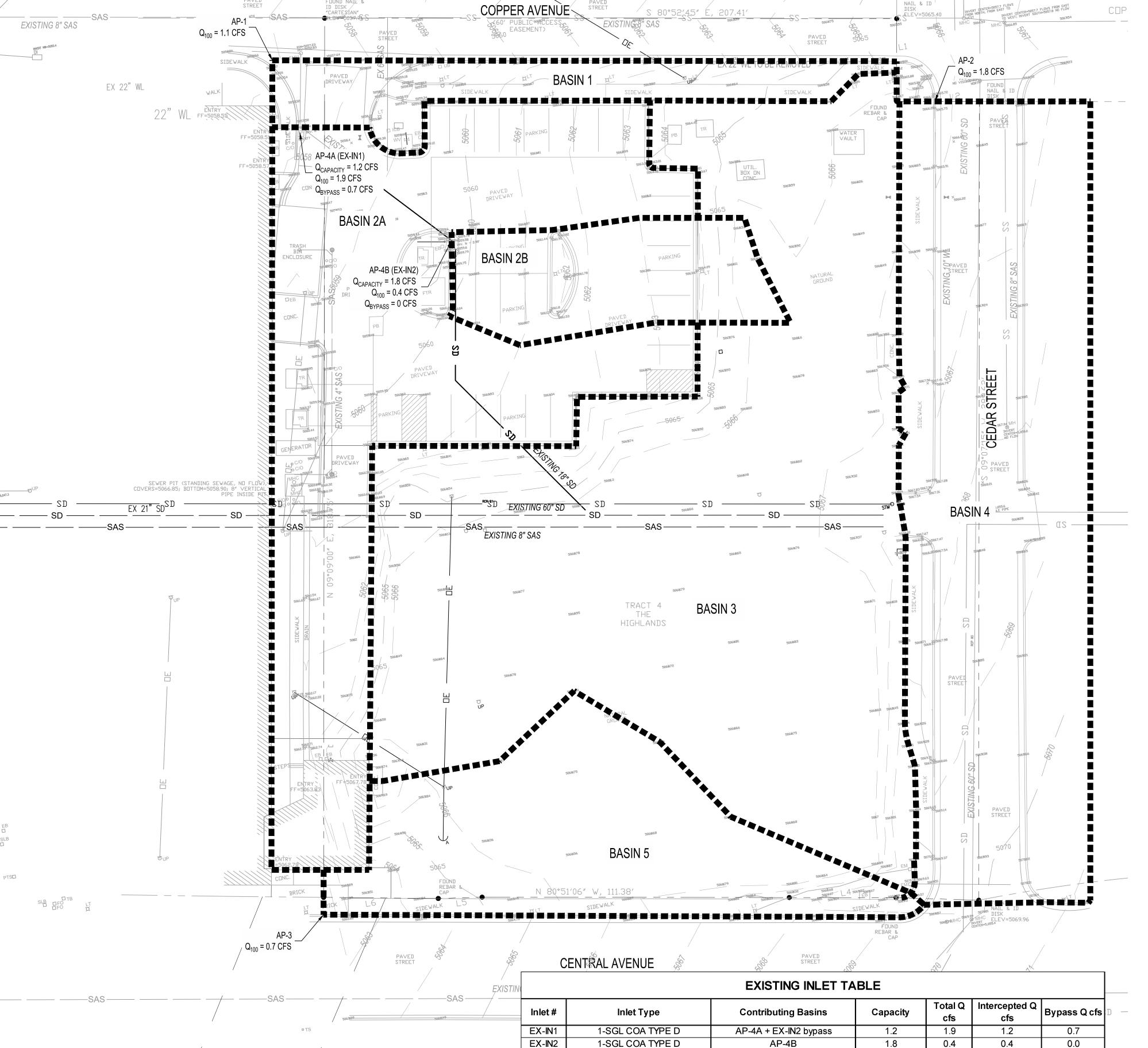
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**EXISTING DRAINAGE** MANAGEMENT PLAN

210046 PROJECT NUMBER



## Residence Inn

Proposed Developed Conditions Basin Data Table
a is based on the DDM Chantou 6 Zana. 2

This table is based on the DPM Chapter 6, Zone: 2												
Area	Area	Land	d Treatmer	nt Percent	ages	Q(100yr)	Q(100yr)	V(100yr)	$V_{(100 \mathrm{yr-6hr})}$	V <sub>(100yr-24hr)</sub>	Weighted	FIRST FLUSH
(SQ. FT)	(AC.)	Α	В	С	D	(cfs/ac.)	(CFS)	(inches)	(CF)	(CF)	Curve #	(CF)
TE BASINS												
9378	0.22	0%	0%	10%	90%	4.2	0.9	2.2	1719	1930	97	295
11243	0.26	0%	0%	5%	95%	4.3	1.1	2.3	2122	2389	97	374
42588	0.98	0%	0%	0%	100%	4.3	4.2	2.3	8269	9334	98	1491
24805	0.57	0%	0%	5%	95%	4.3	2.4	2.3	4682	5271	97	825
2377	0.05	0%	0%	30%	70%	4.0	0.2	1.9	384	426	94	58
90391	2.08	-	-	-	-	-	8.9	-	17177	19350		2985
	(SQ. FT) FE BASINS 9378 11243 42588 24805 2377	(SQ. FT) (AC.) FE BASINS 9378 0.22 11243 0.26 42588 0.98 24805 0.57 2377 0.05	(SQ. FT) (AC.) A FE BASINS  9378 0.22 0%  11243 0.26 0%  42588 0.98 0%  24805 0.57 0%  2377 0.05 0%	Area         Land Treatment           (SQ. FT)         (AC.)         A         B           TE BASINS           9378         0.22         0%         0%           11243         0.26         0%         0%           42588         0.98         0%         0%           24805         0.57         0%         0%           2377         0.05         0%         0%	Area         Land Treatment Percent           (SQ. FT)         (AC.)         A         B         C           TE BASINS           9378         0.22         0%         0%         10%           11243         0.26         0%         0%         5%           42588         0.98         0%         0%         0%           24805         0.57         0%         0%         5%           2377         0.05         0%         0%         30%	Area         Land Treatment Percentages           (SQ. FT)         (AC.)         A         B         C         D           TE BASINS           9378         0.22         0%         0%         10%         90%           11243         0.26         0%         0%         5%         95%           42588         0.98         0%         0%         0%         100%           24805         0.57         0%         0%         5%         95%           2377         0.05         0%         0%         30%         70%	Area         Land Treatment Percentages         Q(100yr)           (SQ. FT)         (AC.)         A         B         C         D         (cfs/ac.)           TE BASINS           9378         0.22         0%         0%         10%         90%         4.2           11243         0.26         0%         0%         5%         95%         4.3           42588         0.98         0%         0%         0%         100%         4.3           24805         0.57         0%         0%         5%         95%         4.3           2377         0.05         0%         0%         30%         70%         4.0	Area         Land Treatment Percentages         Q(100yr)         Q(100yr)           (SQ. FT)         (AC.)         A         B         C         D         (cfs/ac.)         (CFS)           TE BASINS           9378         0.22         0%         0%         10%         90%         4.2         0.9           11243         0.26         0%         0%         5%         95%         4.3         1.1           42588         0.98         0%         0%         0%         100%         4.3         4.2           24805         0.57         0%         0%         5%         95%         4.3         2.4           2377         0.05         0%         0%         30%         70%         4.0         0.2	Area         Land Treatment Percentages         Q(100yr)         Q(100yr)         V(100yr)           (SQ. FT)         (AC.)         A         B         C         D         (cfs/ac.)         (CFS)         (inches)           TE BASINS           9378         0.22         0%         0%         10%         90%         4.2         0.9         2.2           11243         0.26         0%         0%         5%         95%         4.3         1.1         2.3           42588         0.98         0%         0%         0%         100%         4.3         4.2         2.3           24805         0.57         0%         0%         5%         95%         4.3         2.4         2.3           2377         0.05         0%         0%         30%         70%         4.0         0.2         1.9	Area         Area         Land Treatment Percentages         Q(100yr)         Q(100yr)         V(100yr)         V(100yr-6hr)           (SQ. FT)         (AC.)         A         B         C         D         (cfs/ac.)         (CFS)         (inches)         (CF)           FE BASINS           9378         0.22         0%         0%         10%         90%         4.2         0.9         2.2         1719           11243         0.26         0%         0%         5%         95%         4.3         1.1         2.3         2122           42588         0.98         0%         0%         0%         100%         4.3         4.2         2.3         8269           24805         0.57         0%         0%         5%         95%         4.3         2.4         2.3         4682           2377         0.05         0%         0%         30%         70%         4.0         0.2         1.9         384	Area         Land Treatment Percentages         Q(100yr)         Q(100yr)         V(100yr)         V(100yr-6hr)         V(100yr-24hr)           (SQ. FT)         (AC.)         A         B         C         D         (cfs/ac.)         (CFS)         (inches)         (CF)         (CF)           FE BASINS         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S	Area         Area         Land Treatment Percentages         Q(100yr)         Q(100yr)         V(100yr)         V(100yr-6hr)         V(100yr-24hr)         Weighted Curve #           (SQ. FT)         (AC.)         A         B         C         D         (cfs/ac.)         (CFS)         (inches)         (CF)         (CF)         Curve #           9378         0.22         0%         0%         10%         90%         4.2         0.9         2.2         1719         1930         97           11243         0.26         0%         0%         5%         95%         4.3         1.1         2.3         2122         2389         97           42588         0.98         0%         0%         0%         100%         4.3         4.2         2.3         8269         9334         98           24805         0.57         0%         0%         5%         95%         4.3         2.4         2.3         4682         5271         97           2377         0.05         0%         0%         30%         70%         4.0         0.2         1.9         384         426         94



MAP #: 35001C0334G

FEMA MAP

## DRAINAGE NARRATIVE

PROPOSED CONDITIONS

SEE SHEET C-001 FOR INTRODUCTION, EXISTING CONDITIONS, AND METHODOLOGY.

THE PROPOSED SITE WILL MAINTAIN SIMILAR FLOW PATTERNS AS THE EXISTING CONDITIONS WITH SOME SLIGHT DIFFERENCES. BASIN A, ALONG COPPER AVENUE, WILL CONTINUE TO FLOW FROM EAST TO WEST, WITH THE ADDITION OF PARKING THAT WILL SLOPE DOWN TOWARDS THE EXISTING FLOWLINE IN COPPER AVENUE. BASIN B WILL DIRECT FLOW FROM THE EXTERIOR SITE TO THE SHARED DRIVE PAD FROM THE NORTH AND WEST SIDE. THIS FOLLOWS THE SIMILAR EXISTING CONDITIONS AS BASIN 2 OF THE EXISTING CONDITIONS. BASIN C CONTAINS FLOW FROM THE NEW BUILDING AND PARKING AREA. THIS FLOW DRAINS TO A LOW POINT ON THE WEST SIDE OF THE PARKING AREA WHERE A PROPOSED INLET CONNECTS TO AN EXISTING STORM DRAIN INLET ON THE NORTHWEST CORNER OF THE SITE. BASIN D WILL FLOW FROM SOUTH TO NORTH, LIKE IN EXISTING CONDITIONS. PROPOSED ON-STREET PARKING AT THE FRONT OF THE BUILDING WILL SLOPE DOWN TO THE CURB FLOWLINE AND DRAIN NORTH TO COPPER AVENUE. BASIN E WILL CAPTURE FLOW FROM THE NEW SIDEWALK OUTSIDE OF THE BUILDING, WHERE IT DISCHARGES ON TO CENTRAL AVENUE AND MOVES OFFSITE.

ANALYSIS POINT 1 (AP #1) IS LOCATED AT THE DRIVE PAD AT CORNER OF BASIN A AND B, WHERE THE CUMULATIVE FLOW FOR BOTH BASINS GETTING TO EXISTING INLET 1 IS ASSESSED. AP #2 ASSESSES FLOW OUTSIDE THE PARKING STRUCTURE EXIT FROM BASIN C. AP #3 ANALYZES THE FLOW FROM CEDAR STREET AT THE FLOWLINE. AP #4 IS LOCATED AT THE CORNER OF CEDAR AND CENTRAL AVENUE (EXISTING INLET 1) WHERE FLOW ULTIMATELY DISCHARGES ONTO CENTRAL FROM BASIN A.

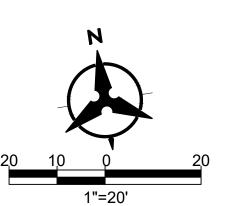
CONCLUSION

BASED ON THE APPROVED HYDROLOGY FILE #K15D034D, THE SITE IS ALLOWED FREE DISCHARGE TO THE COPPER STORM DRAIN. THE CONDITIONS DESCRIBED ABOVE FOLLOW THE ALLOWABLE DRAINAGE PATTERN. AS SUCH, WE ARE REQUESTING COA DRB HYDROLGY SITE PLAN FOR BUILDING PERMIT APPROVAL.

## **LEGEND**

	PROPERTY LINE
	PROJECT LIMITS OF GRADING
5065	EXISTING INDEX CONTOUR
5064	EXISTING INTERMEDIATE CONTOUR
5065.72 ×	EXISTING GROUND SPOT ELEVATION
<del></del> 5065	PROPOSED INDEX CONTOUR
5064	PROPOSED INTERMEDIATE CONTOUR
*******	EXISTING DRAINAGE BASIN
<u>S=X.X%</u>	DIRECTION OF FLOW
<del></del>	WATER BLOCK/GRADE BREAK







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EV.	DATE	ISSUE TITLE
	23-05-19	ISSUE FOR 30% CD
	23-07-12	ISSUE FOR 60% CD
	24-05-02	ISSUE FOR DD / 60% CD
	24-07-24	ISSUE FOR BID

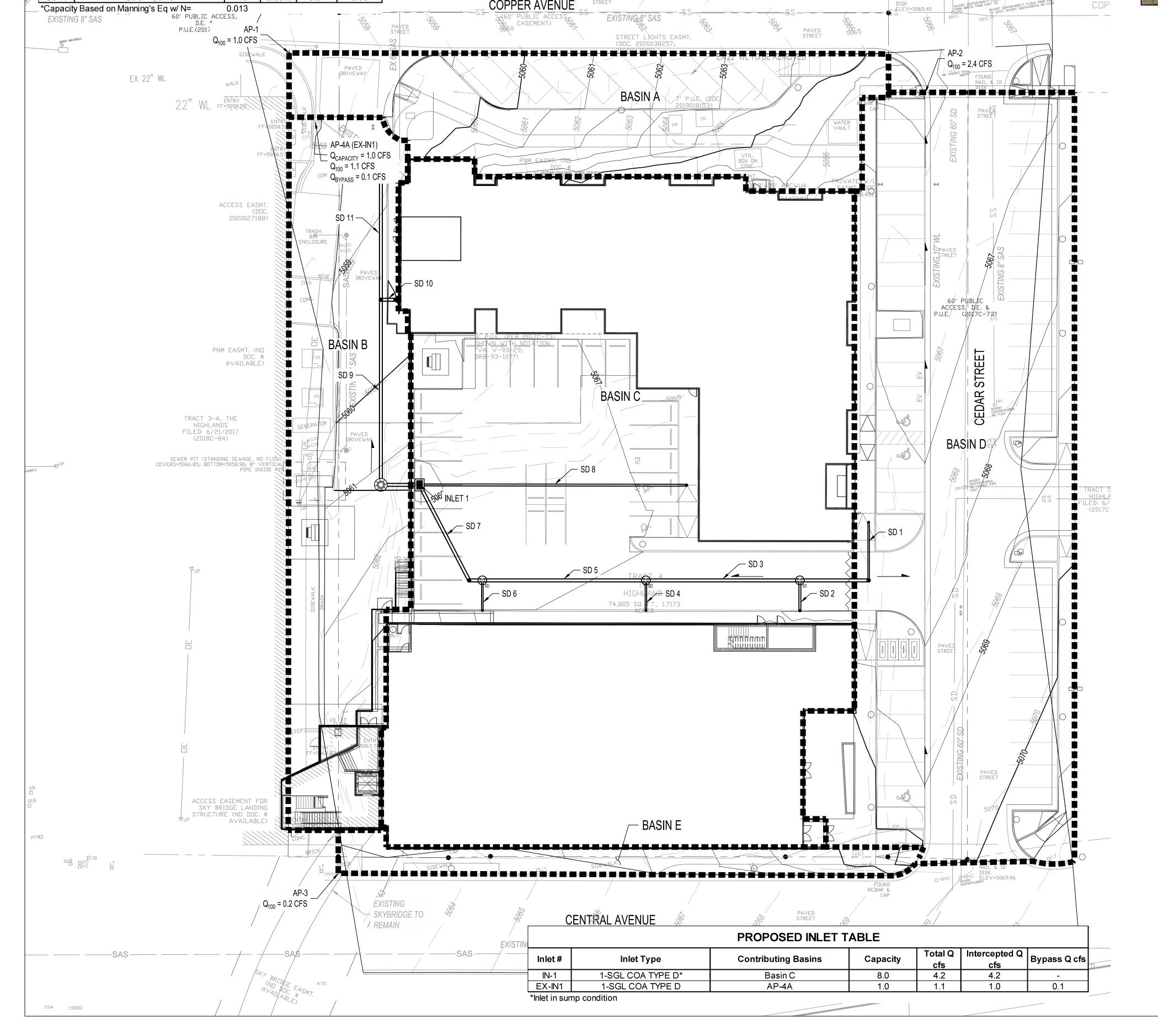
**INCOMPLETE DOCUMENTS ARE FOR INTERIM REVIEW ONLY. NOT FOR REGULATORY APPROVAL** PERMIT OR CONSTRUCTION

## PROPOSED DRAINAGE MANAGEMENT PLAN

RESIDENCE INN & FOOD HALL ABQ 1111 CENTRAL AVE. NE ALBUQUERQUE, NM 87102

PROPOSED DRAINAGE MANAGEMENT PLAN

210046 PROJECT NUMBER



STORM DRAIN PIPE TABLE

Size in | Slope

12

12

12

5.00%

5.00%

3.09%

5.00%

3.09%

5.00%

3.09%

6.62%

2.00%

5.00%

12 | 2.00% | 5.04

Capacity |

cfs\*

1.25

2.70

6.26

1.25

6.26

1.25

6.26

3.11

5.04

7.97

Actual

Flow cfs

0.47

0.46

0.93

0.46

1.39

0.46

1.85

0.47

2.33

0.47

2.80

**Contributing Basins and Storm** 

Drains

1/3 of hotel roof

1/3 of food hall roof

SD1 + SD2

1/3 of food hall roof

SD3 + SD4

1/3 of food hall roof

SD5 + SD6

1/3 of hotel roof

SD7 + SD8

1/3 of hotel roof

SD9 + SD10

Pipe #

SD1

SD2

SD3

SD4

SD5

SD6

SD7

SD8

SD9

SD10

SD11