

# CITY OF ALBUQUERQUE

Planning Department  
David Campbell, Director



Mayor Timothy M. Keller

August 6, 2018

David Soule, P.E.  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, NM 87199

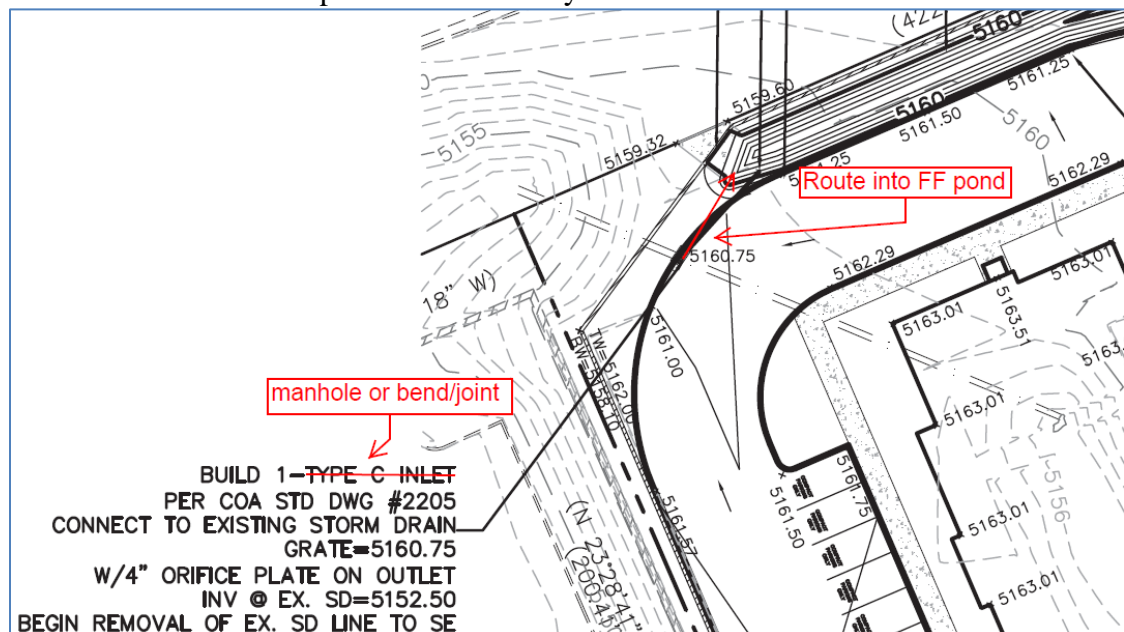
RE: **Jefferson Hotel**  
**Restaurant Ln NE**  
**Grading Plan Stamp Date: 7/30/18**  
**Drainage Report Stamp Date: 7/30/18**  
**Drainage File: F17D044C**

Dear Mr. Soule:

Based on the submittal received on 7/31/18, the grading plan and drainage report cannot be approved for building permit until the following are corrected:

Prior to Building Permit:

1. The Type C inlet at the NW corner should be removed as it allows surface flows to bypass the first flush pond. Stormwater draining to this low spot will need to be routed to the pond first. Also the 4" orifice plate isn't necessary on this outlet:



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2. Correct the calculation error for the Fee-in Lieu amount in the narrative and in Appendix A; should be  $244cf \times \$8/cf = \$1952$ .
3. Payment of the Fee in Lieu (Amount = \$1,952, per Appendix A of the drainage report) for the required first flush volume must be made.
4. This project requires an ESC Plan, submitted to the Stormwater Quality Engineer (Curtis Cherne PE, [ccherne@cabq.gov](mailto:ccherne@cabq.gov) or 924-3420).

Prior to Certificate of Occupancy (For Information):

1. Engineer's Certification, per the DPM Chapter 22.7: *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Provide photographs of the installed orifice plate, including one showing its dimensions and include with the drainage certification.
3. A Bernalillo County Recorded [Drainage Covenant \(No Public Easement\)](#) is required for the stormwater control pond. The original notarized form, exhibit A (legible on 8.5x11 paper), and recording fee (\$25, payable to Bernalillo County) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie ([clabadie@cabq.gov](mailto:clabadie@cabq.gov), 924-3996) or Madeline Carruthers ([mtafoya@cabq.gov](mailto:mtafoya@cabq.gov), 924-3997) regarding the routing and recording process for covenants. The routing and recording process for covenants can take a month or longer; Hydrology recommends beginning this process as soon as possible as to not delay approval for certificate of occupancy.

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

Sincerely,

Dana Peterson, P.E.  
Senior Engineer, Planning Dept.  
Development Review Services

PO Box 1293

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)



# City of Albuquerque

Planning Department  
Development & Building Services Division

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

**Project Title:** JEFFERSON HOTEL **Building Permit #:** \_\_\_\_\_ **Hydrology File #:** F17D044C

**DRB#:** \_\_\_\_\_ **EPC#:** \_\_\_\_\_ **Work Order#:** \_\_\_\_\_

**Legal Description:** TRACT 2A3C1 AND 2A3C2 MCLEOD BUSINESS PARK

**City Address:** UNADDRESSED ON NW CORNER OF JEFFERSON AND HOTEL LANE

**Applicant:** SAMIR PATEL **Contact:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Phone#:** \_\_\_\_\_ **Fax#:** \_\_\_\_\_ **E-mail:** \_\_\_\_\_

**Other Contact:** RIO GRANDE ENGINEERING **Contact:** DAVID SOULE

**Address:** PO BOX 93924 ALB NM 87199

**Phone#:** 505.321.9099 **Fax#:** 505.872.0999 **E-mail:** david@riograndeengineering.com

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

Check all that Apply:

### DEPARTMENT:

☒ HYDROLOGY/ DRAINAGE  
☐ TRAFFIC/ TRANSPORTATION

### 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

### 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 SUBMITTED:** \_\_\_\_\_ **By:** \_\_\_\_\_

COA STAFF:

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

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

# CITY OF ALBUQUERQUE



May 1, 2018

David Soule, P.E.  
Rio Grande Engineering  
PO Box 93924  
Albuquerque, NM 87199

RE: **Jefferson Hotel**  
**Restaurant Ln NE**  
**Conceptual Grading Plan Stamp Date: 4/13/18**  
**Drainage Report Stamp Date: 4/17/18**  
**Drainage File: F17D044C**

Dear Mr. Soule:

Based on the information provided in your submittal received 4/17/18, the conceptual grading plan and drainage report are approved for final plat. Prior to grading or building permit the following are required:

1. A Private Drainage Covenant (No Public Easement) is required for the stormwater detention ponds. The original notarized form, exhibit A (legible on 8.5x11 paper), and recording fee (\$25, payable to City of Albuquerque) must be turned into DRC (4th, Plaza del Sol) for routing. Please contact Charlotte LaBadie (clabadie@cabq.gov, 924-3996) or Madeline Carruthers (mtafoya@cabq.gov, 924-3997) regarding the routing and recording process for covenants.
2. This project requires an ESC Plan, submitted to the Stormwater Quality Engineer (Curtis Cherne PE, ccherne@cabq.gov or 924-3420).
3. Discharge to the SW corner of this site (Restaurant Ln) needs to be limited to 7.85 cfs (4.33cfs/ac x 1.8ac) per the approved management plan by JMA (2005). Increasing the area draining to Restaurant Ln is acceptable, but the flow does need to be restricted to 7.85cfs. **We have updated the plan such that the discharge is limited to 7.88 cfs we feel the .03cfs is de minimus**
4. Delineate and determine the runoff from the Restaurant Ln half street and frontage; this area is within the subject property, free discharges to the west, and counts against the subject property's allowable discharge. **We have included this basin and adjusted the onsite accordingly**
5. The proposed contours and spot elevations do not support the waterblock between the center rows of parking in the SE corner. Please adjust, or update the subbasins accordingly. **We have updated the spots and contours**

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# CITY OF ALBUQUERQUE



6. Payment of the Fee in Lieu (Estimate Amount = \$5707, per Appendix A of the drainage report) for the required first flush volume must be made. This amount will need to be reconfirmed at the time of grading/building permit approval, to ensure the volume didn't change as a result of the above comments **revised volume is 234 cf corresponding to \$2070.00**
7. "Conceptual" markings will need to be removed from the grading plan.  
**We have removed the word conceptual**
8. Additional comments may be provided at Building Permit, based on the outcome of the above remarks and level of detail shown on plans.  
**Acknowledged**

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

Sincerely,

Dana Peterson, P.E.  
Senior Engineer, Planning Dept.  
Development Review Services

PO Box 1293

Albuquerque

NM 87103

[www.cabq.gov](http://www.cabq.gov)

REVISED  
DRAINAGE REPORT

For

**TRU BY HILTON  
TRACT 2-A-3-C-1 MCLEOD BUSINESS PARK  
Albuquerque, New Mexico**

Prepared by

Rio Grande Engineering  
PO Box 93924  
Albuquerque, New Mexico 87199

JULY 2018



David Soule P.E. No. 14522

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### **Appendix**

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### **Map**

Site Grading and Drainage Plan



## **PURPOSE**

The purpose of this report is to provide the Drainage Management Plan for the development of a 4.95 acre tract of land that is being redeveloped as a 4 story hotel. This plan was prepared in accordance with the City of Albuquerque design regulations, utilizing the City of Albuquerque's Development Process Manual drainage guidelines. This report will demonstrate that the grading does not adversely affect the surrounding properties, nor the upstream or downstream facilities.

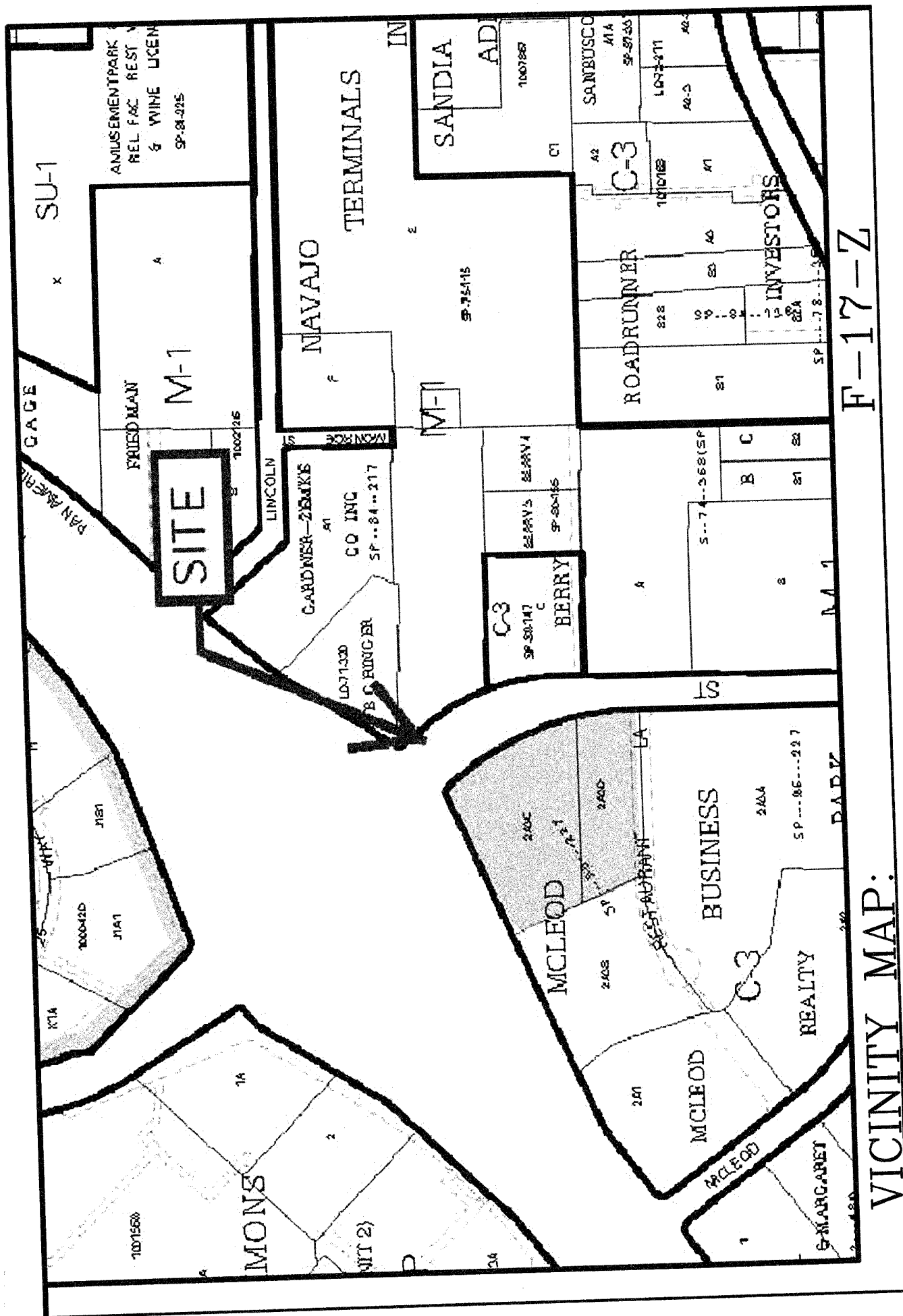
## **INTRODUCTION**

The subject of this report, as shown on the Exhibit A, is a 4.95 -acre parcel of land located on the west side of Jefferson Boulevard directly south of Interstate 25. The proposed legal description of this site is tract 2A3C1 and 2A3C2 of McLeod Business Park. The existing two lots are in the process of being lot line adjusted. As shown on FIRM map35001C0138H, the entire site is located within Flood Zone X. The site is bound on all sides by roadways, and is not impacted by upland flows. The site is an existing developed site, with a restaurant building and large parking field. The site currently discharges 7.74 cfs to the adjacent NMDOT right of way utilizing a detention pond. The site was developed utilizing (F17-D44C). The southern portion of the site is undeveloped and governed by F17-D69 and allowed to discharge 7.85 cfs or (4.33 cfs/acre). The proposed improvements include the redevelopment of the existing building and the construction of a new hotel with associated paved parking area. The site must conform to the master plan peak flow requirements and must retain the first flush volume onsite.

## **EXISTING CONDITIONS**

The site is currently developed. The site currently discharges developed flow of 7.85 cfs to a swale along the NMDOT right of way, utilizing a detention pond. The remaining undeveloped southern portion sheet flows to Hotel Lane. The flows in this basin are all conveyed to 3-42" culverts located at McLeod and Interstate 25 where they are conveyed to the Vineyard channel and the Main North Diversion Channel. The site is not impacted by upland flows.





## **PROPOSED CONDITIONS**

The proposed improvements consist of interior improvements to the existing building and the construction of a new hotel. The area between the buildings will be paved. The site contains 6 drainage basins. Basin A contains the northern portion of the new building and discharges 3.32 cfs to the existing outfall. The basin retains the first flush volume of 556 cubic feet. Basin B contains the existing building and the southern half of the new hotel as well as most of the parking area. This basin generates 12.49 cfs. This basin drains to a central pond that has an outlet control. Basin C contains the southeastern portion of the paved area. This basin discharges 1.58 cfs to an inlet that drains to the central pond. As shown in appendix B, this pond will discharge 5.78 cfs and have a maximum water surface elevation of 5158.45. The first flush volume of 3393 CF is retained in the pond below the inlet grate. Basin D contains the southwestern portion of the lot and discharges 1.05 cfs to an inlet connected to the outfall of the detention pond. This basin does not capture the 243 cubic feet of first flush volume therefore generates a fee in lieu of \$2,070.00. Basin E contains the northern half of Hotel lane; this basin discharges 1.05 cfs to the west. The combined flow from the detention pond (basin B and C and D is 7.88 cfs, which is .03 cfs greater than allowed. The northeast corner of the site contains a large landscaped pond and does not discharge.

## **SUMMARY AND RECOMMENDATIONS**

This project is a redevelopment of an existing site that allows 7.74 cfs to discharge to the NMDOT right of way via an existing outfall, and 7.85 cfs to discharge to Hotel Lane. The site discharges 3.32 cfs to the NMDOT right of way, a reduction of 4.42 cfs. The Southern portion of the site generates a flow greater than allowed, so the flow is metered by onsite detention ponding and an orifice controlled outlet. The resultant flow discharging to hotel lane is 7.88 cfs. The majority of the flow passes thru a first flush pond that retains the required volume. The portions of the site that can not be captured results in a fee in lieu to be paid. The onsite storm drain and outfalls were designed to convey the flow. The ponds will overflow in an emergency or clogging

situation via the emergency spill way for basin A and thru the driveway for basin B/C. The development of this site will not negatively impact the upstream nor down stream facilities. Since the work area does exceed 1 acre, erosion and sediment Control Plan shall be required.

**APPENDIX A**  
**SITE HYDROLOGY**

## NOTICE TO CONTRACTORS—

- |           |      |      |
|-----------|------|------|
| APPROVAL  | NAME | DATE |
| INSPECTOR |      |      |

## SIN

EXISTING UTILITIES ARE NOT SHOWN.  
IT SHALL BE THE SOLE RESPONSIBILITY  
OF THE CONTRACTOR TO CONDUCT ALL  
NECESSARY FIELD INVESTIGATIONS PRIOR  
TO ANY EXCAVATION TO DETERMINE THE  
ACTUAL LOCATION OF UTILITIES & OTHER  
IMPROVEMENTS.

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.

4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.

Troble 2-A-3-C-1 & 2-A-3-

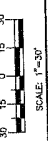
...and


- ALL SPOT ELEVATIONS REPRESENTED.
- ALL CURB AND GUTTER TO 6" ±.
- ALL RETAINING WALL DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AASHTO AND MUTCD SPECIFICATIONS.
- ANY CURBS OR PAVEMENT IN THE EXISTING RIGHT-OF-WAY SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.
- ALL SITE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AASHTO AND MUTCD SPECIFICATIONS.

**CELESTIAL**

- |  |  |
|--|--|
| EXISTING INDEX CONTOUR<br>PROPOSED CURB<br>PROPOSED INDEX CONTOUR<br>SLOPE THE<br>EXISTING SPOT ELEVATION<br>PROPOSED SPOT ELEVATION<br>BOUNDARY<br>CENTERLINE<br>RIGHT-OF-WAY<br>PROPOSED CURB<br>EXISTING CURB AND OUTLETTING<br>EXISTING SIDEWALK<br>PROPOSED RETAINING WALL<br>PROPOSED CONCRETE SW<br>ADA PATHWAY<br>MAX PERMISSIBLE SLOPE<br>MAX ALLOWABLE C/SR DRAINAGE |  |
|--|--|

Year	1990	1995	2000
1990	10	15	20
1995	15	20	25
2000	20	25	30



ENGINEER'S SEAL	JEFFERSON HOTEL	GRADING AND DRAINAGE PLAN		7/26/2018 7/26/2018	DRAWING BY: JCM/ML DATE 7-30-18 SHEET # C1 JCM 2/18/82
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# **Weighted E Method** JEFFERSON HOTEL

Existing Developed Basins- not accounting for detention basin

Basin	Treatment A		Treatment B		Treatment C		Treatment D		100-Year, 6-hr.		10-day
	Area (sf)	Area (acres)	%	(acres)	%	(acres)	%	(acres)	Weighted E (ac-ft)	Volume (ac-ft)	Flow cfs
BASIN A	33316	0.765	0%	0	0.0%	0.000	23.0%	0.17591	1.892	0.121	3.32
BASIN B	122099	2.803	0%	0	5.0%	0.140	8.0%	0.22424	1.974	0.461	12.49
BASIN C	15745	0.361	0%	0	5.0%	0.018	7.0%	0.0253	1.941	0.058	1.58
BASIN D	10484	0.241	0%	0	8.0%	0.019	10.0%	0.02407	1.914	0.038	1.05
BASIN E	10749	0.247	0%	0	0.0%	0.000	28.0%	0.06909	1.843	0.038	1.05
COMBINED C+B	137844	3.164	0%	0	5.0%	0.158223	7.9%	0.24954	1.970	0.520	14.07

## **Equations:**

$$\text{Weighted E} = E_a \cdot A_a + E_b \cdot A_b + E_c \cdot A_c + E_d \cdot A_d / (\text{Total Area})$$

$$\text{Volume} = \text{Weighted D} \cdot \text{Total Area}$$

$$\text{Flow} = Q_a \cdot A_a + Q_b \cdot A_b + Q_c \cdot A_c + Q_d \cdot A_d$$

Where for 100-year, 6-hour storm (zone 3)

$$\begin{aligned} E_a &= 0.53 \\ E_b &= 0.78 \\ E_c &= 1.13 \\ E_d &= 2.12 \end{aligned}$$

$$\begin{aligned} Q_a &= 1.57 \\ Q_b &= 2.28 \\ Q_c &= 3.14 \\ Q_d &= 4.7 \end{aligned}$$

DRAINS TO NMDOT	7.74
DRAINS TO HOTEL	3.32
	16.17

EXISTING PROPOSED AFTER ROUTING	3.32
	7.88

First flush requirement (Redevelopment=impx.26/12-- New development=impx.34/12)  
Area of site affected=7753 was/is impervious

	BASIN A	BASIN B+C	BASIN D
first flush=	556	3393	243.5782667 CF
volume retained=	2303	4992	0 CF
fee in lieu			\$2,070 DOLLARS

**APPENDIX B**

**HYDRAULIC MODELING AND CALCULATIONS**



## Pipe Capacity

Pipe	D	Slope	Area	R	Q Provided	Q Required	Velocity
	(in)	(%)	(ft^2)		(cfs)	(cfs)	(ft/s)
18HDPE	18	0.8	1.77	0.375	8.16	5.78	3.27
12HDPE	12	5	0.79	0.25	6.92	1.58	2.01

### Manning's Equation:

$$Q = 1.49/n * A * R^{(2/3)} * S^{(1/2)}$$

A = Area

R = D/4

S = Slope

n = 0.015

## ***DROP INLET CALCULATIONS***

POND	TYPE OF INLET	AREA (SF)	Q (CFS)	H (FT)	H ALLOW (FT)
	SINGLE D	3.84	1.58	0.0073	0.5

### ORIFICE EQUATION

$$Q = CA \sqrt{2gH}$$

$$C = 0.6$$

$$g = 32.2$$

INLETS IN SUMP CONDITION. ONE INLET CAN HANDLE THE FLOW ,

# VOLUME CALCULATIONS

COMMONS POND

	ACTUAL ELEV.	DEPTH (FT)			VOLUME	VOLUME	Q
					CUMULATIVE	AC-FT	(CFS)
POND OUTLET	50.00	0.00					
	52.50	0.00			800	0.018	0.00
	56.00	3.50			5120	0.118	4.43
	57.00	4.50			6135	0.141	5.03
	58.00	5.50			7403	0.170	5.56
	58.50	6.00			10333	0.237	5.81

## Orifice Equation

$$Q = CA \sqrt{2gH}$$

C = 0.6  
 Diameter (in) 9.5  
 Area (ft<sup>2</sup>) = 0.492237391  
 g = 32.2  
 H (Ft) = Depth of water above center of orifice  
 Q (CFS) = Flow

pondrout031318.txt

\*S AHYMO - DETENTION-JEFFERSON HOTEL  
\*S POND ROUTING

START TIME=0.0 PUNCH CODE=0

RAINFALL TYPE=2  
QUARTER=0.0 ONE= 2.01 IN  
SIX=2.35 IN DAY= 2.75 IN DT = 0.05 HR

COMPUTE NM HYD ID=1 HYD NO=101 DA= .00494 SQ MI  
PER A=0 PER B=5 PER C=8 PER D=87  
TP=-.142 MASSRAIN=-1

PRINT HYD ID=1 CODE=3

\* ROUTE THE TOTAL FLOW THROUGH THE PROPOSED RESERVOIR  
ROUTE RESERVOIR ID=2 HYD NO=102 INFLOW=1 CODE=3  
OUTFLOW(CFS) STORAGE(AC-FT) ELEV(FT)  
0.00 0.018 52.50  
4.43 0.118 56.00  
5.03 0.141 57.00  
5.56 0.170 58.00  
5.81 0.237 58.50

FINISH

\*\*\*\*\*  
AHYMO.OUT

AHYMO PROGRAM (AHYMO-S4)

- Version: S4.01a - Rel: 01a

RUN DATE (MON/DAY/YR) = 07/30/2018  
START TIME (HR:MIN:SEC) = 16:53:40

USER NO.=

RioGrandeSingleA41963517

INPUT FILE = ettings\Owner\Desktop\2018 JOBS\1813-jefferson

hotel\DRAINAGE\pondrout031318.txt

\*S AHYMO - DETENTION-JEFFERSON HOTEL

\*S POND ROUTING

START TIME=0.0 PUNCH CODE=0

RAINFALL TYPE=2

QUARTER=0.0 ONE= 2.01 IN

SIX=2.35 IN DAY= 2.75 IN DT = 0.05 HR

24-HOUR RAINFALL DIST. - BASED ON NOAA ATLAS 14 FOR

CONVECTIVE AREAS (NM & AZ) - D1

DT =	0.050000 HOURS	END TIME =	24.000002 HOURS
0.0000	0.0023	0.0046	0.0071
0.0099	0.0127	0.0159	0.0203
0.0272	0.0347	0.0424	0.0509
0.0595	0.0684	0.0776	0.0870
0.0974	0.1084	0.1204	0.1437
0.1728	0.2117	0.2559	0.3104
0.3831	0.4649	0.6062	0.8258
1.9379	1.9905	1.2021	1.4666
1.6752	1.7800	1.8719	2.0362
2.1005	2.1259	2.1418	2.1530
2.1629			

AHYMO.OUT

2.1722	2.1803	2.1879	2.1953	2.2025	2.2084	2.2118
2.2152	2.2186	2.2217	2.2247	2.2278	2.2307	2.2336
2.2363	2.2391	2.2417	2.2443	2.2469	2.2494	2.2518
2.2542	2.2565	2.2588	2.2611	2.2633	2.2654	2.2676
2.2697	2.2717	2.2738	2.2758	2.2778	2.2798	2.2817
2.2837	2.2856	2.2874	2.2893	2.2911	2.2930	2.2948
2.2965	2.2983	2.3000	2.3017	2.3034	2.3051	2.3068
2.3084	2.3100	2.3117	2.3133	2.3148	2.3164	2.3180
2.3195	2.3210	2.3225	2.3240	2.3255	2.3269	2.3284
2.3298	2.3313	2.3327	2.3341	2.3355	2.3368	2.3382
2.3396	2.3409	2.3422	2.3436	2.3449	2.3462	2.3474
2.3487	2.3500	2.3513	2.3525	2.3538	2.3551	2.3563
2.3576	2.3589	2.3601	2.3614	2.3627	2.3639	2.3652
2.3665	2.3677	2.3690	2.3702	2.3715	2.3728	2.3740
2.3753	2.3765	2.3778	2.3790	2.3803	2.3815	2.3828
2.3840	2.3853	2.3865	2.3878	2.3890	2.3903	2.3915
2.3927	2.3940	2.3952	2.3965	2.3977	2.3989	2.4002
2.4014	2.4027	2.4039	2.4051	2.4064	2.4076	2.4088
2.4101	2.4113	2.4125	2.4137	2.4150	2.4162	2.4174
2.4186	2.4199	2.4211	2.4223	2.4235	2.4247	2.4260
2.4272	2.4284	2.4296	2.4308	2.4320	2.4333	2.4345
2.4357	2.4369	2.4381	2.4393	2.4405	2.4417	2.4429
2.4441	2.4453	2.4465	2.4478	2.4490	2.4502	2.4514
2.4526	2.4538	2.4550	2.4561	2.4573	2.4585	2.4597
2.4609	2.4621	2.4633	2.4645	2.4657	2.4669	2.4681
2.4692	2.4704	2.4716	2.4728	2.4740	2.4752	2.4764
2.4775	2.4787	2.4799	2.4811	2.4822	2.4834	2.4846
2.4858	2.4869	2.4881	2.4893	2.4905	2.4916	2.4928
2.4940	2.4951	2.4963	2.4975	2.4986	2.4998	2.5010
2.5021	2.5033	2.5044	2.5056	2.5068	2.5079	2.5091
2.5102	2.5114	2.5125	2.5137	2.5148	2.5160	2.5171
2.5183	2.5194	2.5206	2.5217	2.5229	2.5240	2.5252
2.5263	2.5274	2.5286	2.5297	2.5309	2.5320	2.5331
2.5343	2.5354	2.5365	2.5377	2.5388	2.5399	2.5411
2.5422	2.5433	2.5445	2.5456	2.5467	2.5478	2.5490
2.5501	2.5512	2.5523	2.5535	2.5546	2.5557	2.5568
2.5579	2.5590	2.5602	2.5613	2.5624	2.5635	2.5646
2.5657	2.5668	2.5679	2.5691	2.5702	2.5713	2.5724
2.5735	2.5746	2.5757	2.5768	2.5779	2.5790	2.5801
2.5812	2.5823	2.5834	2.5845	2.5856	2.5867	2.5878
2.5889	2.5899	2.5910	2.5921	2.5932	2.5943	2.5954
2.5965	2.5976	2.5986	2.5997	2.6008	2.6019	2.6030
2.6040	2.6051	2.6062	2.6073	2.6084	2.6094	2.6105
2.6116	2.6126	2.6137	2.6148	2.6159	2.6169	2.6180
2.6191	2.6201	2.6212	2.6223	2.6233	2.6244	2.6254
2.6265	2.6276	2.6286	2.6297	2.6307	2.6318	2.6328
2.6339	2.6350	2.6360	2.6371	2.6381	2.6392	2.6402
2.6413	2.6423	2.6433	2.6444	2.6454	2.6465	2.6475
2.6486	2.6496	2.6506	2.6517	2.6527	2.6538	2.6548
2.6558	2.6569	2.6579	2.6589	2.6600	2.6610	2.6620
2.6630	2.6641	2.6651	2.6661	2.6672	2.6682	2.6692
2.6702	2.6712	2.6723	2.6733	2.6743	2.6753	2.6763
2.6774	2.6784	2.6794	2.6804	2.6814	2.6824	2.6834
2.6844	2.6854	2.6865	2.6875	2.6885	2.6895	2.6905
2.6915	2.6925	2.6935	2.6945	2.6955	2.6965	2.6975
2.6985	2.6995	2.7005	2.7015	2.7025	2.7034	2.7044
2.7054	2.7064	2.7074	2.7084	2.7094	2.7104	2.7114
2.7123	2.7133	2.7143	2.7153	2.7163	2.7172	2.7182
2.7192	2.7202	2.7211	2.7221	2.7231	2.7241	2.7250
2.7260	2.7270	2.7280	2.7289	2.7299	2.7309	2.7318
2.7328	2.7338	2.7347	2.7357	2.7366	2.7376	2.7386
2.7395	2.7405	2.7414	2.7424	2.7433	2.7443	2.7452
2.7462	2.7472	2.7481	2.7491	2.7500		

AHYMO.OUT

COMPUTE NM HYD

ID=1 HYD NO=101 DA= .00494 SQ MI

PER A=0 PER B=5 PER C=8 PER D=87

TP=-.142 MASSRAIN=-1

K = 0.077390HR TP = 0.142000HR K/TP RATIO = 0.545000 SHAPE  
CONSTANT, N = 7.106428  
UNIT PEAK = 15.928 CFS UNIT VOLUME = 0.9985 B = 526.28  
P60 = 2.0100  
AREA = 0.004298 SQ MI IA = 0.10000 INCHES INF = 0.04000  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT  
= 0.050000

K = 0.124555HR TP = 0.142000HR K/TP RATIO = 0.877146 SHAPE  
CONSTANT, N = 4.047639  
UNIT PEAK = 1.6206 CFS UNIT VOLUME = 0.9931 B = 358.33  
P60 = 2.0100  
AREA = 0.000642 SQ MI IA = 0.40769 INCHES INF = 0.99154  
INCHES PER HOUR  
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT  
= 0.050000

PRINT HYD

ID=1 CODE=3

PARTIAL HYDROGRAPH 101.00

TIME	FLOW		TIME	FLOW		TIME	FLOW
TIME	FLOW	CFS	TIME	FLOW	CFS	HRS	CFS
HRS	CFS		HRS	CFS			
0.000	0.0		5.100	0.0		10.200	0.1
15.300	0.1	0.0	20.400	0.1	0.0	10.350	0.1
15.450	0.1	0.0	20.550	0.1	0.1	10.500	0.1
0.150			5.250				
0.300			5.400				



AHYMO.OUT

15.600	0.450	0.1	0.0	20.700	5.550	0.1	0.1	10.650	0.1
15.750	0.600	0.1	0.0	20.850	5.700	0.1	0.1	10.800	0.1
15.900	0.750	0.1	0.0	21.000	5.850	0.1	0.1	10.950	0.1
16.050	0.900	0.1	0.1	21.150	6.000	0.1	0.1	11.100	0.1
16.200	1.050	0.1	0.8	21.300	6.150	0.1	0.1	11.250	0.1
16.350	1.200	0.1	2.0	21.450	6.300	0.1	0.1	11.400	0.1
16.500	1.350	0.1	4.7	21.600	6.450	0.1	0.1	11.550	0.1
16.650	1.500	0.1	14.0	21.750	6.600	0.1	0.1	11.700	0.1
16.800	1.650	0.1	9.1	21.900	6.750	0.1	0.1	11.850	0.1
16.950	1.800	0.1	4.5	22.050	6.900	0.1	0.1	12.000	0.1
17.100	1.950	0.1	2.6	22.200	7.050	0.1	0.1	12.150	0.1
17.250	2.100	0.1	1.4	22.350	7.200	0.1	0.1	12.300	0.1
17.400	2.250	0.1	0.8	22.500	7.350	0.1	0.1	12.450	0.1
17.550	2.400	0.1	0.5	22.650	7.500	0.1	0.1	12.600	0.1
17.700	2.550	0.1	0.3	22.800	7.650	0.1	0.1	12.750	0.1
17.850	2.700	0.1	0.2	22.950	7.800	0.1	0.1	12.900	0.1
18.000	2.850	0.1	0.1	23.100	7.950	0.1	0.1	13.050	0.1
18.150	3.000	0.1	0.1	23.250	8.100	0.1	0.1	13.200	0.1
18.300	3.150	0.1	0.0	23.400	8.250	0.1	0.1	13.350	0.1
18.450	3.300	0.1	0.0	23.550	8.400	0.1	0.1	13.500	0.1
18.600	3.450	0.1	0.0	23.700	8.550	0.1	0.1	13.650	0.1

AHYMO.OUT

18.750	3.600	0.1	0.0	23.850	8.700	0.1	0.1	13.800	0.1
18.900	3.750	0.1	0.0	24.000	8.850	0.1	0.1	13.950	0.1
19.050	3.900	0.1	0.0	24.150	9.000	0.0	0.1	14.100	0.1
19.200	4.050	0.1	0.0	24.300	9.150	0.0	0.1	14.250	0.1
19.350	4.200	0.1	0.0	24.450	9.300	0.0	0.1	14.400	0.1
19.500	4.350	0.1	0.0	24.600	9.450	0.0	0.1	14.550	0.1
19.650	4.500	0.1	0.0	24.750	9.600	0.0	0.1	14.700	0.1
19.800	4.650	0.1	0.0		9.750		0.1	14.850	0.1
19.950	4.800	0.1	0.0		9.900		0.1	15.000	0.1
20.100	4.950	0.1	0.0		10.050		0.1	15.150	0.1
20.250		0.1							

RUNOFF VOLUME = 2.32270 INCHES = 0.6120 ACRE-FeET  
 PEAK DISCHARGE RATE = 14.04 CFS AT 1.500 HOURS BASIN AREA =

0.0049 SQ. MI.

\* ROUTE THE TOTAL FLOW THROUGH THE PROPOSED RESERVOIR

ROUTE RESERVOIR ID=2 HYD NO=102 INFLOW=1 CODE=3

OUTFLOW(CFS)	STORAGE(AC-FT)	ELEV(FT)
0.00	0.018	52.50
4.43	0.118	56.00
5.03	0.141	57.00

AHYMO.OUT

5.56

0.170

58.00

5.81

0.237

58.50

\* \* \* \* \*

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
0.00	0.00	52.50	0.018	0.00
0.15	0.00	52.50	0.018	0.00
0.30	0.00	52.50	0.018	0.00
0.45	0.00	52.50	0.018	0.00
0.60	0.00	52.50	0.018	0.00
0.75	0.00	52.50	0.018	0.00
0.90	0.09	52.51	0.018	0.01
1.05	0.84	52.65	0.022	0.19
1.20	2.00	53.07	0.034	0.73
1.35	4.70	53.89	0.058	1.76
1.50	14.04	56.74	0.135	4.87
1.65	9.09	58.37	0.220	5.75
1.80	4.51	58.44	0.228	5.78
1.95	2.62	58.23	0.200	5.67
2.10	1.37	57.51	0.156	5.30
2.25	0.81	55.71	0.110	4.07
2.40	0.53	54.57	0.077	2.62
2.55	0.27	53.82	0.056	1.67
2.70	0.16	53.33	0.042	1.05
2.85	0.10	53.02	0.033	0.66
3.00	0.06	52.83	0.027	0.41
3.15	0.04	52.70	0.024	0.26
3.30	0.03	52.63	0.022	0.16
3.45	0.03	52.59	0.020	0.11
3.60	0.03	52.56	0.020	0.07
3.75	0.03	52.54	0.019	0.05
3.90	0.03	52.53	0.019	0.04
4.05	0.03	52.53	0.019	0.04
4.20	0.03	52.53	0.019	0.03

			AHYMO.OUT	
4.35	0.03	52.53	0.019	0.03
4.50	0.04	52.53	0.019	0.03
4.65	0.04	52.53	0.019	0.04
4.80	0.04	52.53	0.019	0.04
4.95	0.04	52.53	0.019	0.04
5.10	0.05	52.53	0.019	0.04
5.25	0.05	52.54	0.019	0.04
5.40	0.05	52.54	0.019	0.05
5.55	0.06	52.54	0.019	0.05
5.70	0.06	52.54	0.019	0.05
5.85	0.06	52.55	0.019	0.06
6.00	0.07	52.55	0.019	0.06
6.15	0.07	52.55	0.019	0.06
6.30	0.07	52.55	0.020	0.07
6.45	0.07	52.55	0.020	0.07
6.60	0.07	52.55	0.020	0.07
6.75	0.07	52.55	0.020	0.07
6.90	0.07	52.55	0.020	0.07
7.05	0.07	52.56	0.020	0.07
7.20	0.07	52.56	0.020	0.07
7.35	0.07	52.55	0.020	0.07
7.50	0.07	52.55	0.020	0.07
7.65	0.07	52.55	0.020	0.07
7.80	0.07	52.55	0.020	0.07
7.95	0.07	52.55	0.020	0.07
8.10	0.07	52.55	0.020	0.07
8.25	0.07	52.55	0.020	0.07

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
8.40	0.07	52.55	0.020	0.07
8.55	0.07	52.55	0.020	0.07
8.70	0.07	52.55	0.020	0.07
8.85	0.07	52.55	0.020	0.07
9.00	0.07	52.55	0.020	0.07
9.15	0.07	52.55	0.020	0.07
9.30	0.07	52.55	0.020	0.07
9.45	0.07	52.55	0.020	0.07
9.60	0.07	52.55	0.020	0.07
9.75	0.07	52.55	0.020	0.07
9.90	0.07	52.55	0.020	0.07
10.05	0.07	52.55	0.020	0.07
10.20	0.07	52.55	0.020	0.07
10.35	0.07	52.55	0.019	0.07
10.50	0.07	52.55	0.019	0.07
10.65	0.07	52.55	0.019	0.07
10.80	0.07	52.55	0.019	0.07
10.95	0.06	52.55	0.019	0.07
11.10	0.07	52.55	0.019	0.07
11.25	0.07	52.55	0.019	0.07
11.40	0.07	52.55	0.019	0.07
11.55	0.07	52.55	0.019	0.07
11.70	0.06	52.55	0.019	0.07
11.85	0.06	52.55	0.019	0.07
12.00	0.06	52.55	0.019	0.06
12.15	0.06	52.55	0.019	0.06
12.30	0.06	52.55	0.019	0.06
12.45	0.06	52.55	0.019	0.06
12.60	0.06	52.55	0.019	0.06
12.75	0.06	52.55	0.019	0.06
12.90	0.06	52.55	0.019	0.06
13.05	0.06	52.55	0.019	0.06

			AHYMO.OUT	
13.20	0.06	52.55	0.019	0.06
13.35	0.06	52.55	0.019	0.06
13.50	0.06	52.55	0.019	0.06
13.65	0.06	52.55	0.019	0.06
13.80	0.06	52.55	0.019	0.06
13.95	0.06	52.55	0.019	0.06
14.10	0.06	52.55	0.019	0.06
14.25	0.06	52.55	0.019	0.06
14.40	0.06	52.55	0.019	0.06
14.55	0.06	52.55	0.019	0.06
14.70	0.06	52.55	0.019	0.06
14.85	0.06	52.55	0.019	0.06
15.00	0.06	52.55	0.019	0.06
15.15	0.06	52.55	0.019	0.06
15.30	0.06	52.55	0.019	0.06
15.45	0.06	52.55	0.019	0.06
15.60	0.06	52.55	0.019	0.06
15.75	0.06	52.55	0.019	0.06
15.90	0.06	52.55	0.019	0.06
16.05	0.06	52.55	0.019	0.06
16.20	0.06	52.55	0.019	0.06
16.35	0.06	52.55	0.019	0.06
16.50	0.06	52.55	0.019	0.06
16.65	0.06	52.55	0.019	0.06

TIME (HRS)	INFLOW (CFS)	ELEV (FEET)	VOLUME (AC-FT)	OUTFLOW (CFS)
16.80	0.06	52.55	0.019	0.06
16.95	0.06	52.55	0.019	0.06
17.10	0.06	52.55	0.019	0.06
17.25	0.06	52.55	0.019	0.06
17.40	0.06	52.55	0.019	0.06
17.55	0.06	52.55	0.019	0.06
17.70	0.06	52.55	0.019	0.06
17.85	0.06	52.55	0.019	0.06
18.00	0.06	52.55	0.019	0.06
18.15	0.06	52.55	0.019	0.06
18.30	0.06	52.55	0.019	0.06
18.45	0.06	52.55	0.019	0.06
18.60	0.06	52.55	0.019	0.06
18.75	0.06	52.55	0.019	0.06
18.90	0.06	52.55	0.019	0.06
19.05	0.06	52.55	0.019	0.06
19.20	0.06	52.55	0.019	0.06
19.35	0.06	52.55	0.019	0.06
19.50	0.06	52.55	0.019	0.06
19.65	0.06	52.55	0.019	0.06
19.80	0.06	52.55	0.019	0.06
19.95	0.06	52.55	0.019	0.06
20.10	0.06	52.54	0.019	0.06
20.25	0.06	52.54	0.019	0.06
20.40	0.06	52.54	0.019	0.06
20.55	0.06	52.54	0.019	0.06
20.70	0.06	52.54	0.019	0.06
20.85	0.06	52.54	0.019	0.06
21.00	0.06	52.54	0.019	0.06
21.15	0.06	52.54	0.019	0.06
21.30	0.06	52.54	0.019	0.06
21.45	0.06	52.54	0.019	0.06
21.60	0.06	52.54	0.019	0.06
21.75	0.05	52.54	0.019	0.06
21.90	0.06	52.54	0.019	0.05

			AHYMO.OUT	
22.05	0.06	52.54	0.019	0.06
22.20	0.05	52.54	0.019	0.05
22.35	0.05	52.54	0.019	0.05
22.50	0.05	52.54	0.019	0.05
22.65	0.05	52.54	0.019	0.05
22.80	0.05	52.54	0.019	0.05
22.95	0.05	52.54	0.019	0.05
23.10	0.05	52.54	0.019	0.05
23.25	0.05	52.54	0.019	0.05
23.40	0.05	52.54	0.019	0.05
23.55	0.05	52.54	0.019	0.05
23.70	0.05	52.54	0.019	0.05
23.85	0.05	52.54	0.019	0.05
24.00	0.05	52.54	0.019	0.05
24.15	0.03	52.54	0.019	0.05
24.30	0.01	52.53	0.019	0.03
24.45	0.00	52.52	0.018	0.02
24.60	0.00	52.51	0.018	0.01
24.75	0.00	52.51	0.018	0.01
24.90	0.00	52.50	0.018	0.00

PEAK DISCHARGE = 5.789 CFS - PEAK OCCURS AT HOUR 1.75  
 MAXIMUM WATER SURFACE ELEVATION = 58.459  
 MAXIMUM STORAGE = 0.2315 AC-FT INCREMENTAL TIME= 0.050000HRS

FINISH

NORMAL PROGRAM FINISH

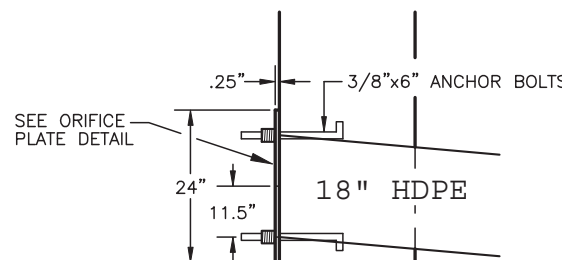
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NOTICE TO CONTRACTORS

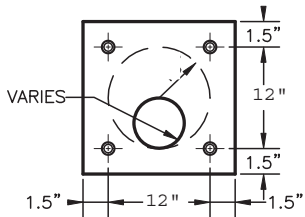
1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HERON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

APPROVAL	NAME	DATE
INSPECTOR		

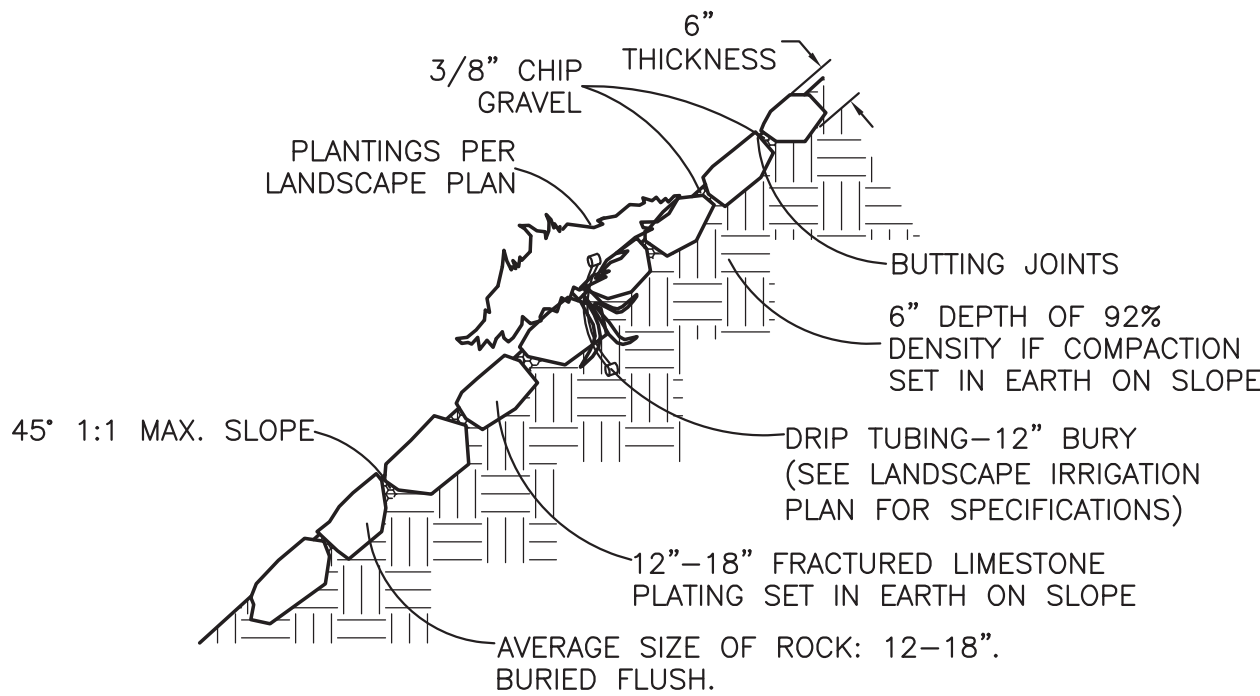


DETAIL A

TO BE INSTALLED @ THE OUTFLOW OF THE CATCH BASINS (SEE THIS PLAN FOR ORIFICE PLATE SIZES)



ORIFICE PLATE DETAIL



ROCK PLATING DETAIL

NTS

CAUTION:

EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

BUILD 10' CONCRETE OVERFLOW  
TURN BLOCK EVERY OTHER BLOCK

18" HDPE  
INV IN=5159.00

BUILD DETENTION/WATER  
HARVESTING POND  
W/ROCK PLATTING  
1:1 SLOPE MAX-SEE DETAIL THIS SHEET  
TOP=5160.00  
BOTTOM=5152.00  
PROPOSED WATER HARVESTING  
VOLUME @ 5159.00=3813 CU. FT.  
PROPOSED DETENTION VOLUME=

2' CURB  
CUT

BEGIN 1'-9" RW  
DESIGN BY OTHERS

BUILD WATER HARVESTING POND  
TOP=5162.00  
BOTTOM=5160.00  
PROPOSED VOLUME=279 CU. FT.

2' CURB  
CUT

BUILD WATER HARVESTING POND  
TOP=5163.00  
BOTTOM=5161.00  
PROPOSED VOLUME=211 CU. FT.

POND BASIN  
NO DISCHARGE

One Story  
Restaurant  
Building

2' CURB  
CUT

BUILD WATER HARVESTING POND  
TOP=5162.00  
BOTTOM=5160.00  
PROPOSED VOLUME=375 CU. FT.

2' CURB  
CUT

DAYLIGHT 12" HDPE  
INV=5150.00

2' CURB  
CUT

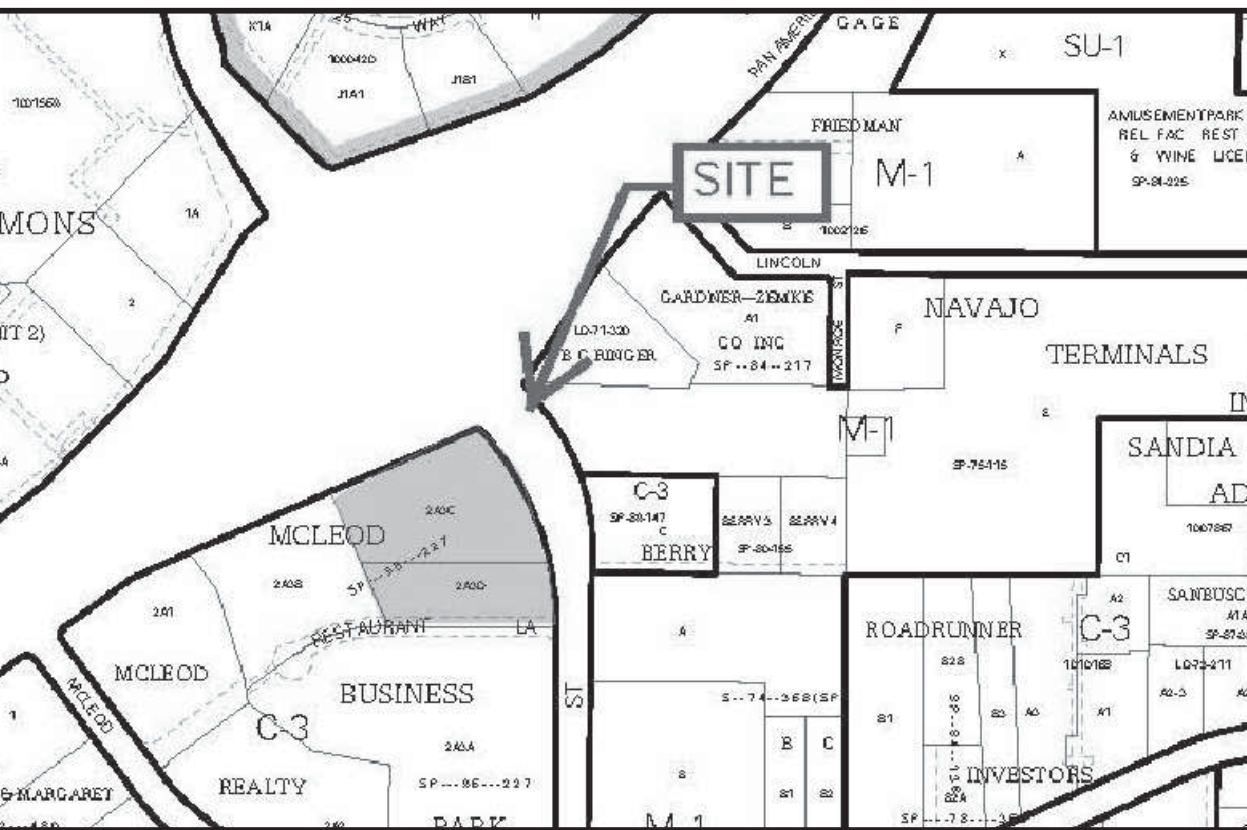
BUILD 1-TYPE D INLET  
PER COA STD DWG #2206  
GRATE=5158.00  
12" HDPE INV OUT=5155.50

END 1'-9" RW  
DESIGN BY OTHERS  
BUILD RETENTION/WATER  
HARVESTING POND  
W/ROCK PLATTING  
1:1 SLOPE MAX-SEE DETAIL THIS SHEET  
TOP=5158.00  
BOTTOM=5150.00  
PROPOSED VOLUME= 7403 CU. FT. @ 5158  
10333 CU. FT. @ 5158.50  
FIRST FLUSH VOLUME= 4992 CU. FT

BUILD 1-TYPE D INLET  
PER COA STD DWG #2206  
GRATE=5156.00  
18" HDPE INV OUT=5152.50, INSTALL 9.5" ORIFICE PLATE

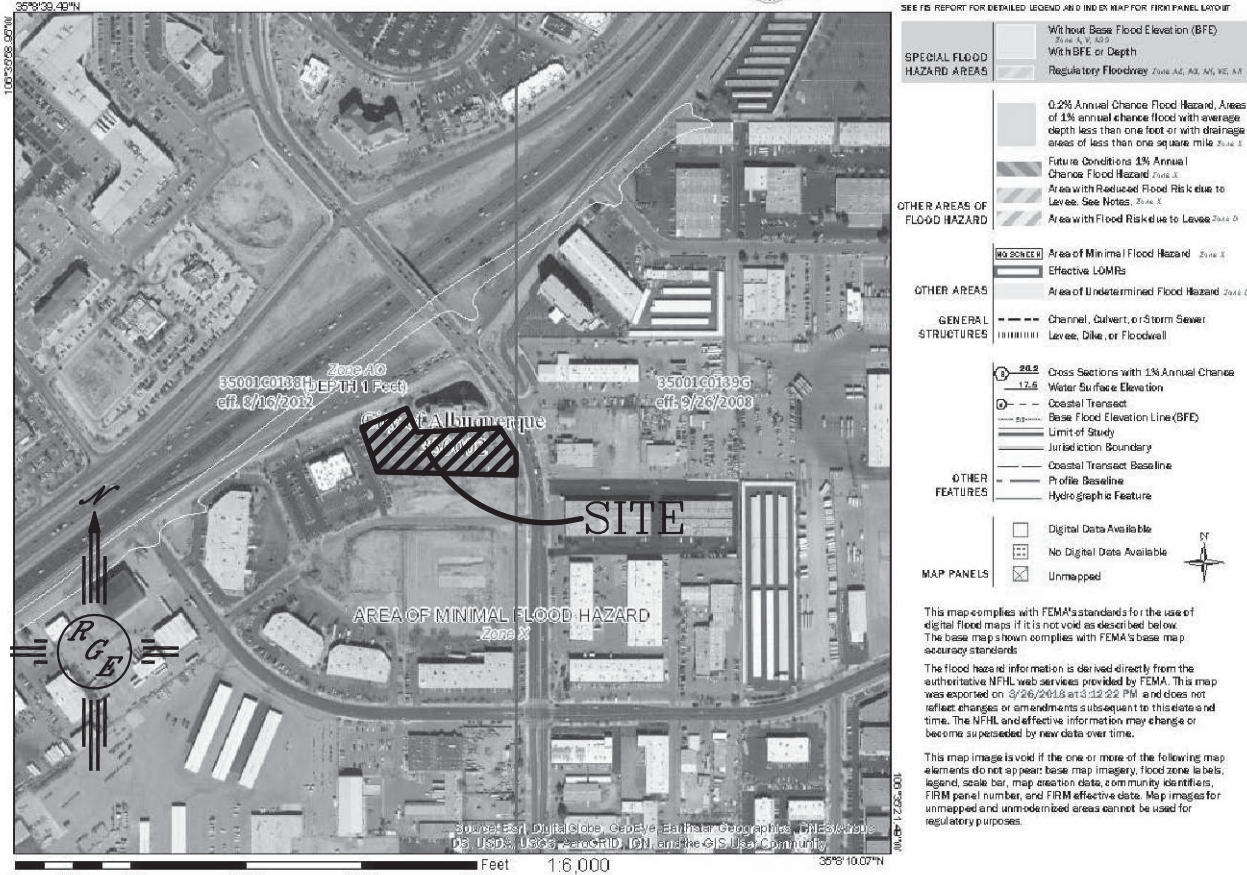
EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL ACCEPTANCE OF ANY PROJECT.



VICINITY MAP: F-17-Z

National Flood Hazard Layer FIRMette



FIRM MAP:

LEGEND

Tracts 2-A-3-C-1 & 2-A-3-C-2 McLeod Business Park

NOTES:

1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
2. ALL CURB AND GUTTER TO 6" HEADER UNLESS OTHERWISE NOTED.
3. ALL RETAINING WALL DESIGN SHALL BE BY OTHERS.
4. ANY CURBS OR PAVEMENT NEGATIVELY IMPACTED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED TO MATCH EXISTING CONDITIONS.
5. ALL SITE WORK SHALL CONFORM TO CITY OF ALBUQUERQUE STANDARDS FOR PUBLIC WORKS CONSTRUCTION EDITION 9

LEGEND

---	EXISTING CONTOUR
---	EXISTING INDEX CONTOUR
---	PROPOSED CONTOUR
---	PROPOSED INDEX CONTOUR
---	SLOPE TIE
x 4048.25	EXISTING SPOT ELEVATION
1-	PROPOSED SPOT ELEVATION
---	BOUNDARY
---	CENTERLINE
---	RIGHT-OF-WAY
---	PROPOSED CURB
---	EXISTING CURB AND GUTTER
---	EXISTING SIDEWALK
---	PROPOSED RETAINING WALL (SEE STRUCTURAL DRAWINGS)
---	PROPOSED CONCRETE SW
---	ADA PATH 2% MAX. CROSS SLOPE
---	ROCK PLATTING-SEE DETAIL THIS SHEET



GRAPHIC SCALE

SCALE: 1"=30'

ENGINEER'S SEAL  DAVID SOULE NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 14522 7/30/18	JEFFERSON HOTEL  GRADING AND DRAINAGE PLAN  <i>Rio Grande Engineering</i> 1606 CENTRAL AVENUE SE SUITE 201 ALBUQUERQUE, NM 87106 (505) 872-0899	DRAWN BY WCVJ  DATE 7-30-18  21882-LAYOUT-3-30-18  SHEET # C1  JOB # 21882
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