

DS #: 5370

APN: 125-28-510-001

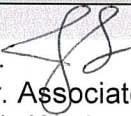
PROJECT: Centennial 215 Plaza

SUBMITTAL: 1st

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS		DATE:
INTER-OFFICE MEMORANDUM		November 16, 2020
TO: Land Development Services Department of Building & Safety		FROM: Jennifer Shinn, P.E.  Flood Control, Engr. Associate Department of Public Works
SUBJECT:	Drainage Study for:	COPIES TO:
	Centennial 215 Plaza	Chick-fil-A
Cross Streets:	US 95 Ramp and Centennial Center Blvd	Kimley-Horn
File Number:	F:\Depot\DSMemos\DS05370A.doc	Bart Anderson, P.E., DevCo
Parcel Number:	125-28-510-001	
Zoning Action:	SDR-77191, TMP-77192	
FEMA Flood Zone	YES NO X	
Proposed Storm Drain	YES NO X	

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	10/6/2020	10/22/2020 & 11/16/2020	See Comments Below	\$400.00	4022296: \$400
TOTAL FEES (LDDRS):				\$400.00	----

REMARKS:

The Drainage Study for the subject project has been reviewed and:

X	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
	is conditionally approved subject to Clark County Public Works Department concurrence.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Update and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

END OF REMARKS

JKS

T/R/S: T19S/R60E/S28
AREA G-28



**Update to the
Technical Drainage Study
for**

Centennial 215 Plaza

Date Prepared:
October 2020

Prepared for:
Chick-fil-A
5200 Buffington RD
Atlanta, GA 30349
303.519.4834

Prepared by:
Kimley-Horn and Associates, Inc.
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, NV 89119
702.862.3600

Kimley»Horn

HYDROLOGIC CRITERIA AND DRAINAGE MANUAL
DRAINAGE STUDY INFORMATION FORM

Name of Development: Chick-fil-A @ Centennial & US 95 Date: October 2020

Location of Development: a) Descriptive (Cross Streets) North/South: US 95 Ramp
East/West: Centennial Center Boulevard

b) Section: 28 Township: 19S Range: 60E

c) APN : 125-28-510-001

Name of Owner: Centennial 215 Plaza LLC/Chick-fil-A

Telephone No.: 702.253.5371 Fax No.: N/A E-Mail Address: N/A

Address: 8350 West Sahara #210; Las Vegas, NV 89117

Contact Person-Name: Michael Schwab, P.E. Telephone No.: 702.790.0206

* E-Mail Address: michael.schwab@kimley-horn.com Fax No.: _____

Firm: KIMLEY-HORN

Address: 6671 Las Vegas Boulevard South, Suite 320 Las Vegas, NV 89119

Type of Land Development/Land Disturbance Process:

☐	Rezoning	☐	Subdivision Map	☐	Clearing and Grading Only
☐	Parcel Map	☐	Planned Unit Development	☒	Other (Please specify below)
☐	Large Parcel Map	☒	Building Permit	GRADING PERMIT	

1. Total Owned Land Area: At Site: +/- 5.86 acres Being Developed/Disturbed: +/- 0.53 acres

2. Is a portion or all of the subject property located in a designated FEMA Flood Hazard Area? ☐ Yes** ☒ No

3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? ☐ Yes** ☒ No

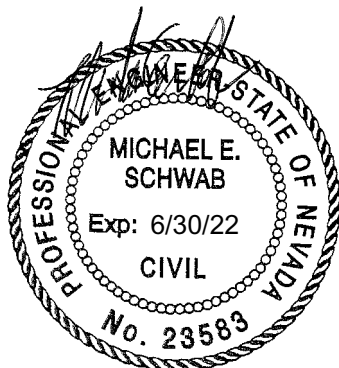
4. Proposed type of development (Residential, Commercial, Etc.): Commercial

5. Approximate upstream land area which drains to the subject site: N/A

6. Has the site drainage been evaluated in the past? ☒ YES ☐ NO If yes, please identify documentation: Technical Drainage Study for Centennial 215 Plaza; Momeni Engineering, March 2020

7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: US 95 Ramp

8. Briefly describe your proposed schedule for the subject project: ASAP



Engineer's Seal 10/06/2020

Submit this form as part of the required drainage study to the local entity which has jurisdiction over the subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

***New Required Field**

****Review and concurrence of the Clark County Regional Flood Control District is required.**

	Revision	Date
Local Entity File No. _____		

REFERENCE:

STANDARD FORM 1



October 6, 2020

Mr. Albert Sung, P.E.
City of Las Vegas Flood Control
333 Rancho Drive
Las Vegas, NV 89106

RE: *Update to the Technical Drainage Study for Centennial 215 Plaza*

Dear Mr. Sung,

This letter certifies that all items provided on the *Update to the Technical Drainage Study for Centennial 215 Plaza* electronic submittal matches the paper version bound into the study.

With Kimley-Horn, you should expect more and will experience better. Please contact me at (702) 790-0206 or michael.schwab@kimley-horn.com should you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Schwab", with a long horizontal flourish extending to the right.

Michael Schwab, P.E.

**Update to the
Technical Drainage Study
for**

Centennial 215 Plaza

Date Prepared:
October 2020

Prepared for:
Chick-fil-A
5200 Buffington RD
Atlanta, GA 30349
303.519.4834

Prepared by:
Kimley-Horn and Associates, Inc.
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, NV 89119
702.862.3600



October 6, 2020

Mr. Albert Sung, P.E.
City of Las Vegas Flood Control
333 Rancho Drive
Las Vegas, NV 89106

RE: *Update to the Technical Drainage Study for Centennial 215 Plaza (DS-5190)*

Dear Mr. Sung,

The purpose of this letter is to serve as the **Update** to the subject project. The *Technical Drainage Study for Centennial 215 Plaza* (hereinafter referred to as **TDS**) was approved by CLV on March 25, 2020. Pertinent reference material has been included in **Appendix B**. The **Update** included herein, is intended to supersede data contained in previous studies.

Since approval of **TDS**, some site revisions have been made in the area of **Pad 1**, which is a proposed building for a Chick-fil-A, as shown on the referenced grading plans and referenced **Figure DR2 – Developed Condition Drainage Map** found in **Appendix B**. The proposed revisions include:

- Added a sidewalk adjacent to the north side of the building.
- Moved the gutter along the west side of the building to west side of the drive thru to allow runoff to drain away from the building.
- Removed a loading zone east of the building and replaced with a parking stall and landscape.
- Revised trash enclosure and provided a sidewalk path to trash enclosure.
- Revised the sidewalk south of the building to slope away from the building at 1.50% or less and changed the curb to 0" curb.
- Added a patio area to the east side of the building and revised the sidewalk path to the door on the east side of the building.

The proposed project generally maintains existing drainage patterns and the proposed buildings meet finished floor elevation criteria. The methodologies and calculations presented in this report are in compliance with the CCRFCD Hydrologic Criteria and Drainage Design Manual (Manual).

The proposed revisions did not require any revisions the hydrology as the revised grading does not change the drainage patterns from the approved **TDS**. Furthermore, none of the hydraulic sections used to check the finished floor elevations of **Pad 1** in the approved **TDS** have changed with the proposed revisions. The pertinent reference material from the approved **TDS** has been included in **Appendix B**.

The Clark County Regional Flood Control District requirement for the finish floor elevation (FF) is that it must be 18 inches above the centerline grade of the adjacent street or be elevated to twice the depth of flow up to 18 inches above the water surface elevation (WSE). Additional criteria requires the finished floor elevation to be 6 inches above adjacent on-site flowline high point. The finished floor of the proposed building is elevated more than 18 inches above centerline grade of Centennial Center

Boulevard and the US 95 ramp. The proposed building is also elevated a minimum of 6-inches above the adjacent flowline highpoint. Please refer to **Appendix C** for the grading plans.

In general, the overall drainage patterns for the site are consistent with the original **TDS** and the proposed site plan does not significantly alter existing peak flows or the character of flows downstream of the development and do not pose any negative impacts on the downstream facilities and development.

With Kimley-Horn, you should expect more and will experience better. Please contact me at (702) 790-0206 or michael.schwab@kimley-horn.com should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Schwab", with a long horizontal flourish extending to the right.

Michael Schwab, P.E.



LIST OF APPENDICES

Appendix A – Documents

- Assessor's Parcel Map
- Planning Approval

Appendix B – Reference Material

- Technical Drainage Study for Centennial 215 Plaza; Prepared by Momeni Engineering, LLC. Approved March 25, 2020. DS-5190.

Appendix C – Improvement Plans

Appendix D – Data CD

Appendix A – Documents

- Assessor's Parcel Map
- Planning Approval



**LAS VEGAS
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lasvegasnevada.gov

October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - VAR-77252 [PRJ-77038] - VARIANCE RELATED TO
SUP-77188, SUP-77189, SUP-77190, SUP-77193, SUP-77315, SUP-
77194, SUP-77314, SDR-77191 AND TMP-77192
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Variance TO ALLOW 11 PERCENT OPEN SPACE WHERE 20 PERCENT IS REQUIRED on 5.86 acres on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following conditions:

Planning

1. A Variance from Title 19.08 is hereby approved, to allow 15 percent open space where 20 percent is required.
2. Approval of and conformance to the Conditions of Approval for Special Use Permit (SUP-77188) Special Use Permit (SUP-77189), Special Use Permit (SUP-77190), Special Use Permit (SUP-77193) Special Use Permit (SUP-77315), Special Use Permit (SUP-77194), Special Use Permit (SUP-77314), Site Development Plan Review (SDR-77191) and Tentative Map (TMP-77192) shall be required, if approved.
3. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.
4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit.
6. All City Code requirements and design standards of all City departments must be satisfied, except as modified herein.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within ten days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **November 4, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required ten day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

PL:nl

cc:

Mr. Matthew Huss
Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

Mr. Tony Celeste
Kaempfer Crowell
1980 Festival Plaza Dr., Ste. 650
Las Vegas, Nevada 89135



**LAS VEGAS
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October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - SUP-77188 [PRJ-77038] - SPECIAL USE PERMIT
RELATED TO VAR-77252, SUP-77189, SUP-77190, SUP-77193,
SUP-77315, SUP-77194, SUP-77314, SDR-77191 AND TMP-77192
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Special Use Permit FOR A PROPOSED 3,009 SQUARE-FOOT BEER/WINE/COOLER OFF-SALE ESTABLISHMENT USE on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following conditions:

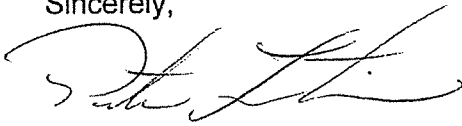
Planning

1. Conformance to all Minimum Requirements under LVMC Title 19.12 for a Beer/Wine/Cooler Off-Sale use.
2. Approval of and conformance to the Conditions of Approval for Variance (VAR-77252), Special Use Permit (SUP-77189), Special Use Permit (SUP-77190), Special Use Permit (SUP-77193), Special Use Permit (SUP-77315), Special Use Permit (SUP-77194), Special Use Permit (SUP-77314), Site Development Plan Review (SDR-77191) and Tentative Map (TMP-77192) shall be required.
3. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.
4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit, as well as submitted as part of any business license application.
6. Approval of this Special Use Permit does not constitute approval of a liquor license.
7. This business shall operate in conformance to Chapter 6.50 of the City of Las Vegas Municipal Code.
8. All City Code requirements and design standards of all City departments must be satisfied, except as modified herein.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within ten days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **November 4, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required ten day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

PL:nl

cc:

Mr. Matthew Huss
Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

Mr. Tony Celeste
Kaempfer Crowell
1980 Festival Plaza Dr., Ste. 650
Las Vegas, Nevada 89135



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October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - SUP-77189 [PRJ-77038] - SPECIAL USE PERMIT
RELATED TO VAR-77252, SUP-77188, SUP-77190, SUP-77193,
SUP-77315, SUP-77194, SUP-77314, SDR-77191 AND TMP-77192
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Special Use Permit FOR A PROPOSED 3,009 SQUARE-FOOT CONVENIENCE STORE (WITH FUEL PUMPS) USE on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following conditions:

Planning

1. Conformance to all Minimum Requirements under the Town Center Development Standards Manual for a Convenience Store (With Fuel Pumps) use.
2. Approval of and conformance to the Conditions of Approval for Variance (VAR-77252), Special Use Permit (SUP-77188), Special Use Permit (SUP-77190), Special Use Permit (SUP-77193), Special Use Permit (SUP-77315), Special Use Permit (SUP-77194), Special Use Permit (SUP-77314), Site Development Plan Review (SDR-77191) and Tentative Map (TMP-77192) shall be required.
3. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.
4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit, as well as submitted as part of any business license application.
6. All City Code requirements and design standards of all City departments must be satisfied, except as modified herein.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within ten days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **November 4, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required ten day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

PL:nl

cc:

Mr. Matthew Huss
Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

Mr. Tony Celeste
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1980 Festival Plaza Dr., Ste. 650
Las Vegas, Nevada 89135



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October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - SUP-77190 [PRJ-77038] - SPECIAL USE PERMIT
RELATED TO VAR-77252, SUP-77188, SUP-77189, SUP-77193,
SUP-77315, SUP-77194, SUP-77314, SDR-77191 AND TMP-77192
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Special Use Permit FOR A PROPOSED MINI-STORAGE FACILITY USE on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following conditions:

Planning

1. Conformance to all Minimum Requirements under the Town Center Development Standards Manual for a Mini-Storage facility use.
2. Approval of and conformance to the Conditions of Approval for Variance (VAR-77252), Special Use Permit (SUP-77188), Special Use Permit (SUP-77189), Special Use Permit (SUP-77193), Special Use Permit (SUP-77315), Special Use Permit (SUP-77194), Special Use Permit (SUP-77314), Site Development Plan Review (SDR-77191) and Tentative Map (TMP-77192) shall be required.
3. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.
4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit, as well as submitted as part of any business license application.
6. All City Code requirements and design standards of all City departments must be satisfied, except as modified herein.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within ten days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **November 4, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required ten day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

PL:nl

cc:

Mr. Matthew Huss
Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

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1980 Festival Plaza Dr., Ste. 650
Las Vegas, Nevada 89135



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October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - SUP-77193 [PRJ-77038] - SPECIAL USE PERMIT
RELATED TO VAR-77252, SUP-77188, SUP-77189, SUP-77190,
SUP-77315, SUP-77194, SUP-77314, SDR-77191 AND TMP-77192
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Special Use Permit FOR A PROPOSED 5,000 SQUARE-FOOT LIQUOR ESTABLISHMENT (TAVERN) USE on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following conditions:

Planning

1. Conformance to all Minimum Requirements under the Town Center Development Standards manual for a Liquor Establishment (Tavern) use.
2. Approval of and conformance to the Conditions of Approval for Variance (VAR-77252), Special Use Permit (SUP-77188), Special Use Permit (SUP-77189), Special Use Permit (SUP-77190), Special Use Permit (SUP-77315), Special Use Permit (SUP-77194), Special Use Permit (SUP-77314), Site Development Plan Review (SDR-77191) and Tentative Map (TMP-77192) shall be required.
3. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.
4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit, as well as submitted as part of any business license application.
6. Approval of this Special Use Permit does not constitute approval of a liquor license.
7. This business shall operate in conformance to Chapter 6.50 of the City of Las Vegas Municipal Code.
8. All City Code requirements and design standards of all City departments must be satisfied, except as modified herein.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within ten days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **November 4, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required ten day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

PL:nl

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Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

Mr. Tony Celeste
Kaempfer Crowell
1980 Festival Plaza Dr., Ste. 650
Las Vegas, Nevada 89135



**LAS VEGAS
CITY COUNCIL**

CAROLYN G. GOODMAN
Mayor

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Mayor Pro Tem

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SCOTT D. ADAMS
City Manager

DEPARTMENT OF PLANNING
ROBERT SUMMERFIELD
DIRECTOR

**DEVELOPMENT
SERVICES CENTER**

333 N. RANCHO DRIVE
3RD FLOOR
LAS VEGAS, NV 89106
702.229.6301 | VOICE
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October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - SUP-77315 [PRJ-77038] - SPECIAL USE PERMIT
RELATED TO VAR-77252, SUP-77188, SUP-77189, SUP-77190,
SUP-77193, SUP-77194, SUP-77314, SDR-77191 AND TMP-77192
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Special Use Permit FOR A PROPOSED 5,000 SQUARE-FOOT GAMING ESTABLISHMENT, RESTRICTED LICENSE USE on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following conditions:

Planning

1. Conformance to all Minimum Requirements under the Town Center Development Standards manual for a Gaming Establishment, Restricted License use.
2. Approval of and conformance to the Conditions of Approval for Variance (VAR-77252), Special Use Permit (SUP-77188), Special Use Permit (SUP-77189), Special Use Permit (SUP-77190), Special Use Permit (SUP-77193), Special Use Permit (SUP-77194), Special Use Permit (SUP-77314), Site Development Plan Review (SDR-77191) and Tentative Map (TMP-77192) shall be required.
3. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.
4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit, as well as submitted as part of any business license application.
6. All City Code requirements and design standards of all City departments must be satisfied, except as modified herein.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within ten days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **November 4, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required ten day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

PL:nl

cc:

Mr. Matthew Huss
Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

Mr. Tony Celeste
Kaempfer Crowell
1980 Festival Plaza Dr., Ste. 650
Las Vegas, Nevada 89135



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October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - SUP-77194 [PRJ-77038] - SPECIAL USE PERMIT
RELATED TO VAR-77252, SUP-77188, SUP-77189, SUP-77190,
SUP-77193, SUP-77315, SUP-77314, SDR-77191 AND TMP-77192
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Special Use Permit FOR A PROPOSED 5,010 SQUARE-FOOT LIQUOR ESTABLISHMENT (TAVERN) USE on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following conditions:

Planning

1. Conformance to all Minimum Requirements under the Town Center Development Standards manual for a Liquor Establishment (Tavern) use.
2. Approval of and conformance to the Conditions of Approval for Variance (VAR-77252), Special Use Permit (SUP-77188), Special Use Permit (SUP-77189), Special Use Permit (SUP-77190), Special Use Permit (SUP-77193), Special Use Permit (SUP-77315), Special Use Permit (SUP-77314), Site Development Plan Review (SDR-77191) and Tentative Map (TMP-77192) shall be required.
3. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.
4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit, as well as submitted as part of any business license application.
6. Approval of this Special Use Permit does not constitute approval of a liquor license.
7. This business shall operate in conformance to Chapter 6.50 of the City of Las Vegas Municipal Code.
8. All City Code requirements and design standards of all City departments must be satisfied, except as modified herein.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within ten days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **November 4, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required ten day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

PL:nl

cc:

Mr. Matthew Huss
Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

Mr. Tony Celeste
Kaempfer Crowell
1980 Festival Plaza Dr., Ste. 650
Las Vegas, Nevada 89135



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October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - SUP-77314 [PRJ-77038] - SPECIAL USE PERMIT
RELATED TO VAR-77252, SUP-77188, SUP-77189, SUP-77190,
SUP-77193, SUP-77315, SUP-77194, SDR-77191 AND TMP-77192
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Special Use Permit FOR A PROPOSED 5,010 SQUARE-FOOT GAMING ESTABLISHMENT, RESTRICTED LICENSE USE on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following conditions:

Planning

1. Conformance to all Minimum Requirements under the Town Center Development Standards manual for a Gaming Establishment, Restricted License use.
2. Approval of and conformance to the Conditions of Approval for Variance (VAR-77252), Special Use Permit (SUP-77188), Special Use Permit (SUP-77189), Special Use Permit (SUP-77190), Special Use Permit (SUP-77193), Special Use Permit (SUP-77315), Special Use Permit (SUP-77194), Site Development Plan Review (SDR-77191) and Tentative Map (TMP-77192) shall be required.
3. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.
4. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

5. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit, as well as submitted as part of any business license application.
6. All City Code requirements and design standards of all City departments must be satisfied, except as modified herein.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within ten days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **November 4, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required ten day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

PL:nl

cc:

Mr. Matthew Huss
Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

Mr. Tony Celeste
Kaempfer Crowell
1980 Festival Plaza Dr., Ste. 650
Las Vegas, Nevada 89135



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October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - SDR-77191 [PRJ-77038] - SITE DEVELOPMENT
PLAN REVIEW RELATED TO VAR-77252, SUP-77188, SUP-77189,
SUP-77190, SUP-77193, SUP-77315, SUP-77194, SUP-77314 AND
TMP-77192
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Site Development Plan Review FOR PROPOSED 33,470 SQUARE-FOOT SHOPPING CENTER WITH A 1,200 SQUARE-FOOT OUTDOOR SEATING AREA AND A 445-UNIT, 69,000 SQUARE-FOOT MINI-STORAGE FACILITY WITH WAIVERS OF THE TOWN CENTER DEVELOPMENT STANDARDS MANUAL on 5.86 acres on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following amended conditions:

Planning

1. Approval of and conformance to the Conditions of Approval for Variance (VAR-77252), Special Use Permit (SUP-77188), Special Use Permit (SUP-77189), Special Use Permit (SUP-77190), Special Use Permit (SUP-77193), Special Use Permit (SUP-77315), Special Use Permit (SUP-77194), Special Use Permit (SUP-77314) and Tentative Map (TMP-77192) shall be required, if approved.
2. This approval shall be void two years from the date of final approval, unless exercised pursuant to the provisions of LVMC Title 19.16. An Extension of Time may be filed for consideration by the City of Las Vegas.
3. All development shall be in conformance with the site plan, landscape plan, and building elevations, date stamped 10/10/19, except as amended by conditions herein.

4. A Waiver from the Town Center Development Standards Manual is hereby approved, to allow 15 percent open space where 20 percent is required. A revised site plan and landscape plan allowing a minimum of 15 percent open space must be submitted to and approved by the Department of Planning prior to the issuance of any building permit.
5. A Waiver from the Town Center Development Standards Manual and Title 19.08 is hereby approved, to allow an eight-foot wide landscape buffer adjacent to portions of the south property line where 15 feet is required.
6. A Waiver from the Town Center Development Standards Manual and Title 19.08 is hereby approved, to allow a zero-foot wide landscape buffer adjacent to portions of the north property line where eight feet is required.
7. A Waiver from the Town Center Development Standards Manual and Title 19.08 is hereby approved, to allow a seven-foot wide landscape buffer adjacent to portions of the west property line where 15 feet is required.
8. A Waiver from the Town Center Development Standards Manual and Title 19.08 is hereby approved, to not align the buildings with the corner or the street frontage where such is required.
9. A Waiver from the Town Center Development Standards Manual and Title 19.08 is hereby approved, to allow a parking lot 13 feet from the property line where 15 feet is required, and in front of the buildings where parking is to be located behind the building.
10. A Waiver from the Town Center Development Standards Manual and Title 19.08 is hereby approved, to allow the convenience store to not be located against the right-of-way and face the inside of the parcel where such is required.
11. A Waiver from the Town Center Development Standards Manual and Title 19.08 is hereby approved, to allow fuel pumps in front of a building and adjacent to right-of-way where such is not allowed.
12. A Waiver from the Town Center Development Standards Manual and Title 19.08 is hereby approved, to allow the drive through lane to wrap around three sides of the structure where only two sides are allowed.
13. All necessary building permits shall be obtained and final inspections shall be completed in compliance with Title 19 and all codes as required by the Department of Building and Safety.

14. A revised site plan shall be submitted to and approved by the Department of Planning Department, prior to the time application is made for building permit to reflect the changes herein:
 - The loading zone adjacent to the flood channel access/drive way shall be modified to not encroach into the driveway and maintain a clear vehicular driveway.
15. Mechanical and electrical equipment for any use shall be screened from view per Section B.5.E of the Town Center Development Standards Manual.
16. These Conditions of Approval shall be affixed to the cover sheet of any plan set submitted for building permit.
17. A technical landscape plan, signed and sealed by a Registered Architect, Landscape Architect, Residential Designer or Civil Engineer, must be submitted prior to or at the same time application is made for a building permit. A permanent underground sprinkler system is required, and shall be permanently maintained in a satisfactory manner; the landscape plan shall include irrigation specifications. Installed landscaping shall not impede visibility of any traffic control device. The technical landscape plan shall include the following changes from the conceptual landscape plan:
 - Interior trees and shrubs are to be selected from the Southern Nevada Regional Planning Coalition Regional Plant List. All trees shall be 36-inch box size.
 - Four types of trees shall be used in combination throughout Town Center perimeter landscape buffer areas:
 - a. Palm Tree:
Washingtonia Robusta Hybrid (Mexican Fan Palm), at least 25 feet in height at the time of installation.
 - b. Shade Tree:
Fraxinus Velutina Rio Grande (Rio Grande Ash), at least 36 inch box or greater in size, with a minimum three inch caliper diameter at six inches above grade at time of nstallation.
 - c. Accent Tree:
Chitalpa Tashkentensis (Chitalpa), at least 36 inch box or greater in size, with a minimum three inch caliper diameter at six inches above grade at time of nstallation.
 - d. Flowering Tree:
Robinia Ambigua "Purple Robe" (Purple Robe Locust), at least 36 inch box or greater in size, with a minimum three inch caliper diameter at six inches above grade at time of nstallation.
 - The perimeter landscape buffer adjacent to Centennial Center Boulevard shall be planted in accordance with the Town Center Development Standards Manual for a Frontage/Loop Road.

- One, 36-inch box shade tree shall be planted every 20 feet on center with four, five-gallon shrubs for every required tree within the east, west and north landscape buffers.
 - Parking lot landscape islands/planters shall have a minimum width of five feet (clear distance between curbs for planting). Where parallel to the parking space, the length of the planter shall be equal to the length of the adjacent parking space.
18. A fully operational fire protection system, including fire apparatus roads, fire hydrants and water supply, shall be installed and shall be functioning prior to construction of any combustible structures.
19. All City Code requirements and design standards of all City Departments must be satisfied, except as modified herein.

Public Works

20. Prior to the issuance of permits for this site, dedicate 7 feet of right-of-way on Oso Blanca Road coupled with granting a 3-foot Traffic Appurtenance and Pedestrian Access Easement. Additionally dedicate a right turn lane on Centennial Center Boulevard on to Oso Blanca Road as determined by the accepted Traffic Impact Analysis for this site. Grant a Bus Shelter Pad Easement to the Regional Transportation Commission, unless the Regional Transportation Commission (RTC) acknowledges in writing that this easement is not required.
21. Construct off-site improvements on Centennial Center Boulevard as shown on the approved site plan and on Oso Blanca Road matching Nevada Department of Transportation's (NDOT) design concurrent with on-site development activities or prior to recordation of the Final Map for this site, whichever may occur first. As per Unified Development Code (UDC) 19.16.060.G, all requirements must be complied with or such future compliance must be guaranteed by an approved performance security method in accordance with UDC sections 19.02.130.
22. Unless otherwise allowed by the City Engineer, construct sidewalk on at least one side of all access drives connecting this site to the adjacent public streets concurrent with development of this site. The connecting sidewalk shall extend from the sidewalk on the public street to the first intersection of the on-site roadway network and shall be terminated on-site with a handicap ramp.
23. Landscape and maintain all unimproved rights-of-way adjacent to this site. All landscaping and private improvements installed with this project shall be situated and maintained so as to not create sight visibility obstructions for vehicular traffic at all development access drives and abutting street intersections.

24. Submit a License Agreement for landscaping and private improvements in the Centennial Center Boulevard and Oso Blanca Road public rights of way, if any, prior to this issuance of permits for these improvements. The applicant must carry an insurance policy for the term of the License Agreement and add the City of Las Vegas as an additionally insured entity on this insurance policy. If requested by the City, the applicant shall remove property encroaching in the public right of-way at the applicant's expense pursuant to the terms of the City's License Agreement. The installation and maintenance of all private improvements in the public right of way shall be the responsibility of the applicant and any successors in interest to the property and assigns pursuant to the terms of the License Agreement. Coordinate all requirements for the License Agreement with the Land Development Section of the Department of Building and Safety (702-229-4836).
25. Contact the Transportation Engineering Office at 702-229-6327 to coordinate the development of this project with the Centennial Bowl Phase 3D Project (City of Las Vegas and Nevada Department of Transportation) and any other public improvement projects adjacent to this site. Comply with the recommendations of the City Transportation Engineering Manager.
26. A Traffic Impact Analysis must be submitted to and approved by the Department of Public Works prior to the issuance of any building or grading permits, submittal of any construction drawings or the recordation of a Map subdividing this site, whichever may occur first. Comply with the recommendations of the approved Traffic Impact Analysis prior to occupancy of the site. The Traffic Impact Analysis shall include a pedestrian circulation/access plan to identify nearby pedestrian attractors and recommend measures to accommodate pedestrians, such as but not limited to pedestrian access, crosswalk, pedestrian activated flashers and temporary sidewalks. The Traffic Impact Analysis shall also include a section addressing Standard Drawings #234.1 #234.2 and #234.3 to determine additional right-of-way requirements for bus turnouts adjacent to this site, if any; dedicate all areas recommended by the approved Traffic Impact Analysis. All additional rights of way required by Standard Drawing #201.1 for exclusive right turn lanes and dual left turn lanes shall be dedicated prior to or concurrent with the commencement of on site development activities unless specifically noted as not required in the approved Traffic Impact Analysis. Phased compliance will be allowed if recommended by the approved Traffic Impact Analysis. No recommendation of the approved Traffic Impact Analysis, nor compliance therewith, shall be deemed to modify or eliminate any condition of approval imposed by the Planning Commission or the City Council on the development of this site.

27. A Drainage Plan and Technical Drainage Study must be submitted to and approved by the Department of Public Works prior to the issuance of any building or grading permits, submittal of any construction drawings or the submittal of a Map subdividing this site, whichever may occur first. Provide and improve all drainageways recommended in the approved drainage plan/study. The developer of this site shall be responsible to construct such neighborhood or local drainage facility improvements as are recommended by the City of Las Vegas Neighborhood Drainage Studies and approved Drainage Plan/Study concurrent with development of this site.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within ten days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **November 4, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required ten day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

PL:nl

cc:

Mr. Matthew Huss
Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

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Kaempfer Crowell
1980 Festival Plaza Dr., Ste. 650
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October 23, 2019

Mr. Joseph Scala
Jazz Trust
6401 Centennial Center Blvd.
Las Vegas, Nevada 89149

**RE: ABEYANCE - TMP-77192 [PRJ-77038] - TENTATIVE MAP RELATED
TO VAR-77252, SUP-77188, SUP-77189, SUP-77190, SUP-77193,
SUP-77315, SUP-77194, SUP-77314 AND SDR-77191
PLANNING COMMISSION MEETING OF OCTOBER 22, 2019**

Dear Applicant:

The Planning Commission at a regular meeting held on October 22, 2019 voted to **APPROVE** a request for a Tentative Map FOR A ONE-LOT COMMERCIAL SUBDIVISION on 5.86 acres on the north side of Centennial Center Boulevard, approximately 1,710 feet west of Azure Drive (APN 125-28-510-001), T-C (Town Center) Zone, Ward 6 (Fiore) [PRJ-77038].

This approval is subject to the following conditions:

Planning

1. Approval of the Tentative Map shall be for no more than four (4) years. If a Final Map is not recorded on all or a portion of the area embraced by the Tentative Map within four (4) years of the approval of the Tentative Map, this action is void.
2. Approval of and conformance to the Conditions of Approval for Variance (VAR-77252), Special Use Permit (SUP-77188), Special Use Permit (SUP-77189), Special Use Permit (SUP-77190), Special Use Permit (SUP-77193), Special Use Permit (SUP-77315), Special Use Permit (SUP-77194), Special Use Permit (SUP-77314) and Site Development Plan Review (SDR-77191) shall be required, if approved.
3. A fully operational fire protection system, including fire apparatus roads, fire hydrants and water supply, shall be installed and shall be functioning prior to construction of any combustible structures.
4. The Final Map shall contain a note granting perpetual common access and parking across the entire subdivision.

5. All development is subject to the conditions of City Departments and State Subdivision Statutes.

Public Works

6. Dedicate 7 feet of right-of-way on Oso Blanca Road coupled with granting a 3-foot Traffic Appurtenance and Pedestrian Access Easement. Additionally dedicate a right turn lane on Centennial Center Boulevard on to Oso Blanca Road as determined by the accepted Traffic Impact Analysis for SDR-77191. Grant a Bus Shelter Pad Easement to the Regional Transportation Commission, unless the Regional Transportation Commission (RTC) acknowledges in writing that this easement is not required. Required dedications and easements shall record on this Final Map, unless otherwise allowed by the City Engineer.
7. Construct off-site improvements on Centennial Center Boulevard as shown on SDR-77191 and on Oso Blanca Road matching Nevada Department of Transportation's (NDOT) design prior to recordation of the Final Map for this site. As per Unified Development Code (UDC) 19.16.060.G, all requirements must be complied with or such future compliance must be guaranteed by an approved performance security method in accordance with UDC sections 19.02.130.
8. Per Title 19.16.060.W.1, provide a note on the Final Map that states "All parcels created through this map shall have perpetual unobstructed access to all driveways servicing the overall subdivision unless incompatible uses can be demonstrated to the satisfaction of the City Engineer."
9. Per Title 19.16.060.W.2, sewer service for this commercial subdivision shall be shown in accordance with one of the following two alternatives, and the appropriate note shall appear on the face of the recorded Final Map:
 - I. On-site sewers are a common element privately owned and maintained per the Conditions, Covenants, and Restrictions (CC&Rs) of this commercial subdivision.
 - II. On-site sewers are a common element privately owned and maintained per the Joint Use Agreement of this commercial subdivision.
10. Per Title 19.16.060.W.3, provide a note on the Final Map that states "All subdivided lots within this Final Map shall provide perpetual inter-lot drainage rights across all existing and future parcel limits." A technical drainage study shall be submitted and approved prior to further development of this site.

11. A Drainage Plan and Technical Drainage Study must be submitted to and approved by the Department of Public Works prior to the issuance of any building or grading permits, submittal of any construction drawings or the recordation of a Map subdividing this site, whichever may occur first. Provide and improve all drainageways recommended in the approved drainage plan/study. The developer of this site shall be responsible to construct such neighborhood or local drainage facility improvements as are recommended by the City of Las Vegas Neighborhood Drainage Studies and approved Drainage Plan/Study concurrent with development of this site. The drainage study required by SDR-77191 may be used to satisfy this requirement.
12. The approval of all Public Works related improvements shown on this Tentative Map is in concept only. Specific design and construction details relating to size, type and/or alignment of improvements, including but not limited to street, sewer and drainage improvements, shall be resolved prior to approval of the construction plans by the City. No deviations from adopted City Standards shall be allowed unless specific written approval for such is received from the City Engineer prior to the recordation of a Final Map or the approval of subdivision related construction plans, whichever may occur first. Approval of this Tentative Map does not constitute approval of any deviations. If such approval cannot be obtained, a revised Tentative Map must be submitted showing elimination of such deviations.
13. Comply with all conditions of approval for Site Development Plan Review SDR-77191.

This action by the Planning Commission on **October 22, 2019** is final unless a written appeal is filed with the City Clerk within seven days of the date of the Planning Commission's decision as allowed by code or there is a review action filed by the City Council within the same time period. For additional information on appeals or review requests submitted please access <http://www.lasvegasnevada.gov/CheckStatus/DevelopmentApp.htm>, or contact the Department of Planning and Development at 702.229.6301 after **October 29, 2019**. No building permits or business licenses related to these items shall be issued prior to the expiration of the required seven day waiting period, or until any filed appeal is resolved pursuant to LVMC Title 19.18.

Sincerely,



Peter Lowenstein, AICP
Deputy Planning Director
Department of Planning

TMP-77192 [PRJ-77038] - Page Four
October 23, 2019

PL:nl

cc:

Mr. Matthew Huss
Centennial 215 Plaza, LLC
8350 W. Sahara Avenue, Ste. 210
Las Vegas, Nevada 89117

Mr. Tony Celeste
Kaempfer Crowell
1980 Festival Plaza Dr., Ste. 650
Las Vegas, Nevada 89135

Appendix B – Reference Material

- Technical Drainage Study for Centennial 215 Plaza; Prepared by Momeni Engineering, LLC. Approved March 25, 2020. DS-5190

DS #:

5190

APN:

125-28-510.001

PROJECT:

Conkinnia 215 Plaza

SUBMITAL:

1st

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM

DATE:

March 25, 2020

TO:
Land Development Services
Department of Building & Safety

FROM:
Jennifer Shinn, P.E. 
Flood Control, Engr. Associate
Department of Public Works

SUBJECT: Drainage Study for:
Centennial 215 Plaza

COPIES TO:
Momeni Engineers

Cross Streets: NEC of Centennial Center Blvd & US95

Jazz Trust/Great American Capital

File Number: F:\Depot\DSMemos\DS5190D.doc

Bart Anderson, P.E., DevCo

Parcel Number: 125-28-510-001

CCRFCD

Zoning Action: SDR-77191

FEMA Flood Zone YES NO X

Proposed Storm Drain YES X NO

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	9/4/2019	9/26/2019	See Comments Below	\$400.00	3571923: \$400
2 nd Submittal	12/2/2019	12/16/2019	Conditionally Approved	\$400.00	3658785: \$400
3 rd Submittal	2/13/2020	3/11/2020	CCRFCD Comments	\$400.00	3744093: \$400
4 th Submittal	3/23/2020	3/25/2020	Approved	N/C	N/C
TOTAL FEES (LDDRS):				\$1200.00	----

REMARKS:

The Drainage Study for the subject project has been reviewed and:

X	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
	is conditionally approved subject to Clark County Public Works Department concurrence.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Update and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

END OF REMARKS

jks

T/R/S: T19S/R60E/28

AREA G-28

**Technical Drainage Study
For
Centennial 215 Plaza
City of Las Vegas, Nevada**

Prepared For:

Great American Capital
8350 W. Sahara Avenue, Suite 210
Las Vegas, Nevada 89117
(702) 255-4558

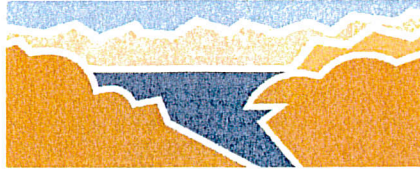
Prepared By:

Momeni Engineers, LLC.
3110 S. Durango Drive, Suite 205
Las Vegas, Nevada 89117
(702) 902-2444

Project Number 103114

August 2019

REGIONAL FLOOD CONTROL DISTRICT



Steven C. Parrish, P.E.
General Manager/Chief
Engineer

BOARD OF DIRECTORS

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Clark County

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City of Boulder City

March 23, 2020

Mr. Oh Sang Kwon, P.E.
City of Las Vegas Department of Public Works
333 North Rancho Drive
Las Vegas, NV 89106

**DISTRICT CONCURRENCE: CENTENNIAL 215 PLAZA
(DS5190B) (RFCD No. 20-11427)**

Dear Mr. Kwon:

Clark County Regional Flood Control District (District) reviewed Technical Drainage Study dated September 4, 2019, Addendum No. 1 dated December 2, 2019, and Addendum No. 2 dated February 13, 2020 for above-mentioned project as submitted by MOMENI ENGINEERS, LLC. In addition, District is in receipt of the Conditional Letter of Acceptance from City of Las Vegas Department of Public Works dated March 11, 2020.

District concurs with acceptance of this Technical Drainage Study by City of Las Vegas Department of Public Works with the following condition(s):

Note that per District's Policies and Procedures Manual, Section VIII.D.13 Uniform Regulations for the Control of Drainage, the Lead Entity shall provide As-Built plans or record drawings to the District after completion and final inspection of such privately installed flood control facilities that have a regional flood control significance.

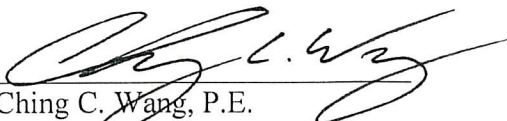
District's review of this project was limited to issues of Regional Flood Control Significance as defined in *Uniform Regulations for the Control of Drainage*.



Mr. Oh Sang Kwon, P.E.
March 23, 2020
Page 2

Please be aware that as additional information becomes available and/or restudies of Flood Insurance Studies are performed, information submitted by MOMENI ENGINEERS, LLC. may be superseded. Compliance with regulatory elements and design standards specified in *Uniform Regulations for the Control of Drainage* does not imply a guarantee that properties will be free from flooding or flood damage. The District, its officials, or employees assume no liability for information, data, or conclusions presented by consulting engineers. We, therefore, make no warranties, either expressed or implied, in conducting this review.

STEVEN C. PARRISH, P.E.
General Manager/Chief Engineer

BY: 
Ching C. Wang, P.E.
Senior Civil Engineer

CCW:jb

c: Moe Momeni, P.E., Momeni Engineers, LLC

P:\Letters and Memos\Local Drainage\Land Development & Drainage\2020\L-20-11427as_built.doc

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL
DRAINAGE STUDY INFORMATION FORM

Name of Development: Centennial 215 Plaza Date: August 2019
 Location of Development: a) Descriptive (Cross Streets): North/South: Oso Blanca Road
East/West: Centennial Center Boulevard
 b) Section: 28 Township: 19 S Range: 60 E
 c) APN: 125-28-510-001

Name of Owner: Jazz Trust/Great American Capital
 Telephone No.: 702-253-5371 Fax No.: 702-255-4556 E-mail Address: Matt@GreatAC.com
 Address: 8350 W. Sahara Avenue, Suite 210 Las Vegas NV 89117

Contact Person – Name: Moe Momeni, P.E., S.E. Telephone No.: 702-902-2444
 *E-mail Address: moe@momeniengineers.com Fax No.: 702-248-8492
 Firm: Momeni Engineers, LLC
 Address: 3110 Durango Drive Las Vegas NV 89117

Type of Land Development/Land Disturbance Process:

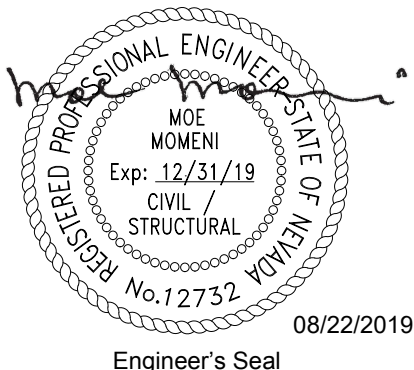
☐ Rezoning	☐ Subdivision Map	☐ Clearing and grading Only
☐ Parcel Map	☐ Planned Unit Development	☐ Other (Please specify below)
☐ Large Parcel Map	☒ Building Permit	☐

1. Total Owned Land Area: At Site: 5.86+/- Ac Being Developed/Disturbed: 5.86+/- Ac
2. Is a portion or all of the subject property located in a FEMA Flood Hazard Area? ☐ Yes** ☒ No
3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? ☒ Yes** ☐ No
4. Proposed type of development (Residential, Commercial, Etc.): Commercial
5. Approximate upstream land area which drains to the subject site: 22.30 +/- Ac
6. Has the site drainage been evaluated in the past? ☒ Yes** ☐ No If yes, please identify documentation: _____

Technical Drainage Study Update #2 to the Hydrology Study and Flood Control Pre-Design for Centennial Centre (DS 2515)

7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: North into the Ranch Road System - Beltway
.....CCRFCF facility adjacent to the site thru onsite storm drains

8. Briefly describe your proposed schedule for the subject project: ASAP



Submit this form as part of the required drainage study to the local entity which has jurisdiction over The subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

***Newly Required Field**

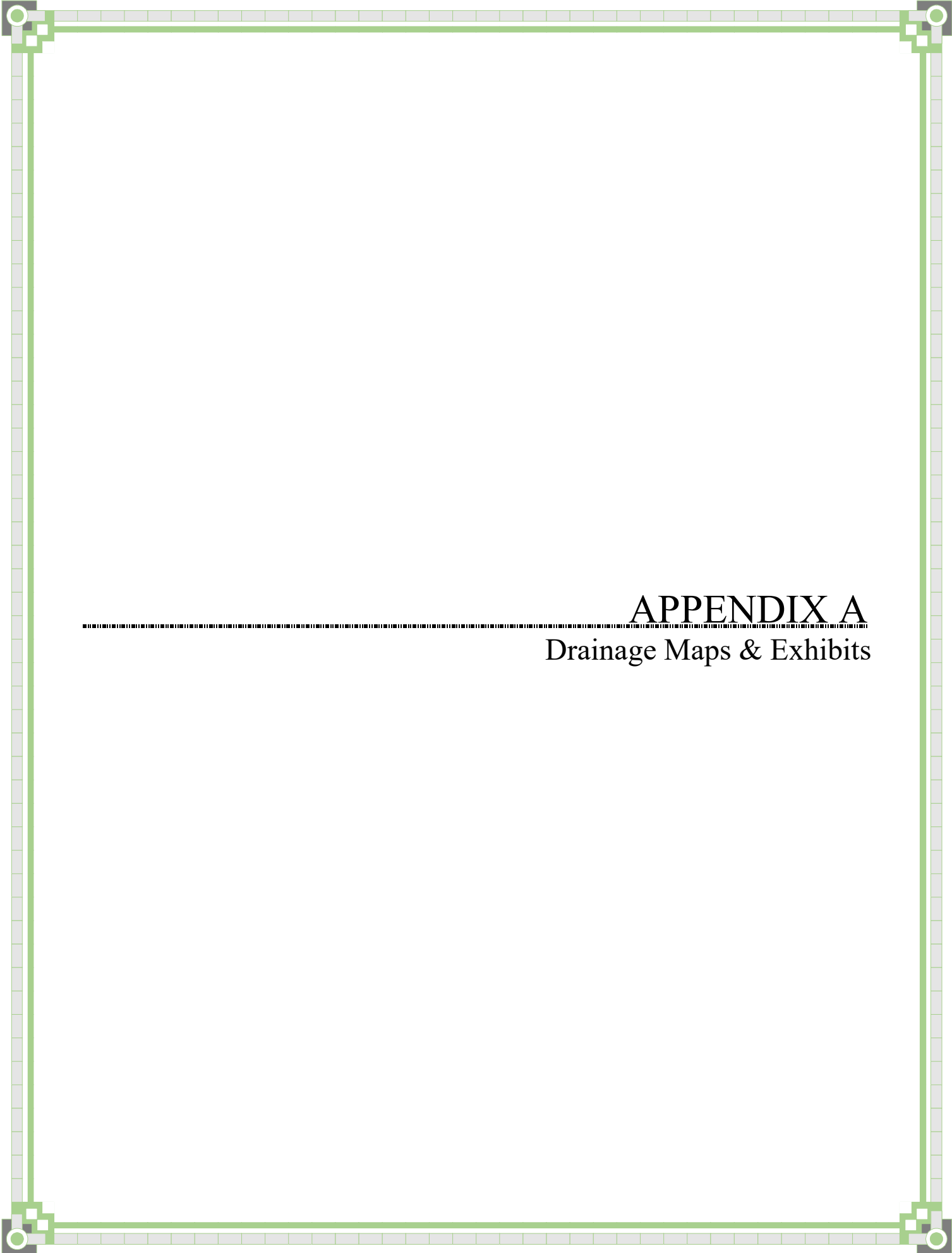
****Review and concurrence of the Clark County Regional Flood Control District is required**

Local Entity File No.	Revision	Date

REFERENCE:

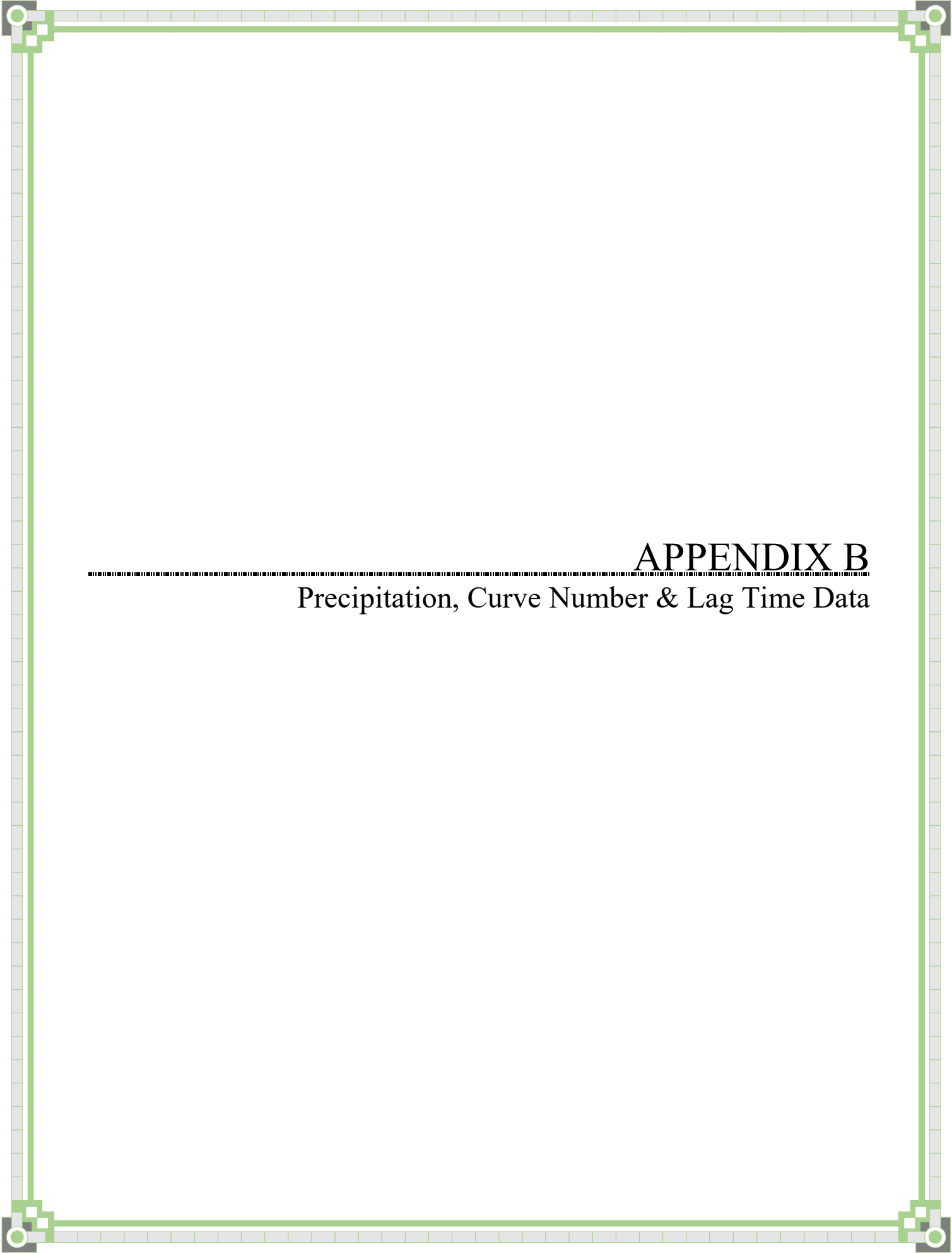
STANDARD FORM 1

Updated 05/01/2008



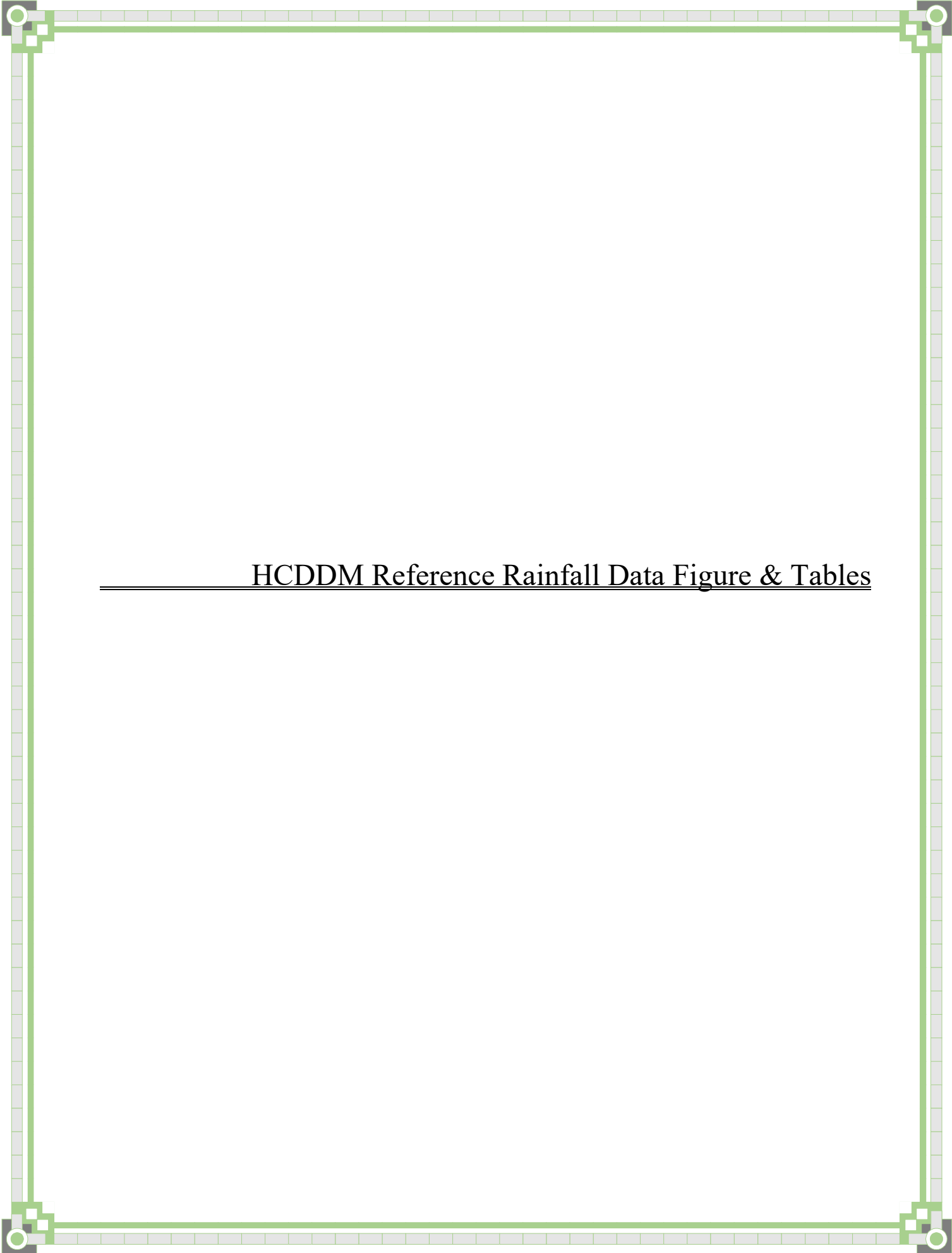
APPENDIX A

Drainage Maps & Exhibits



APPENDIX B

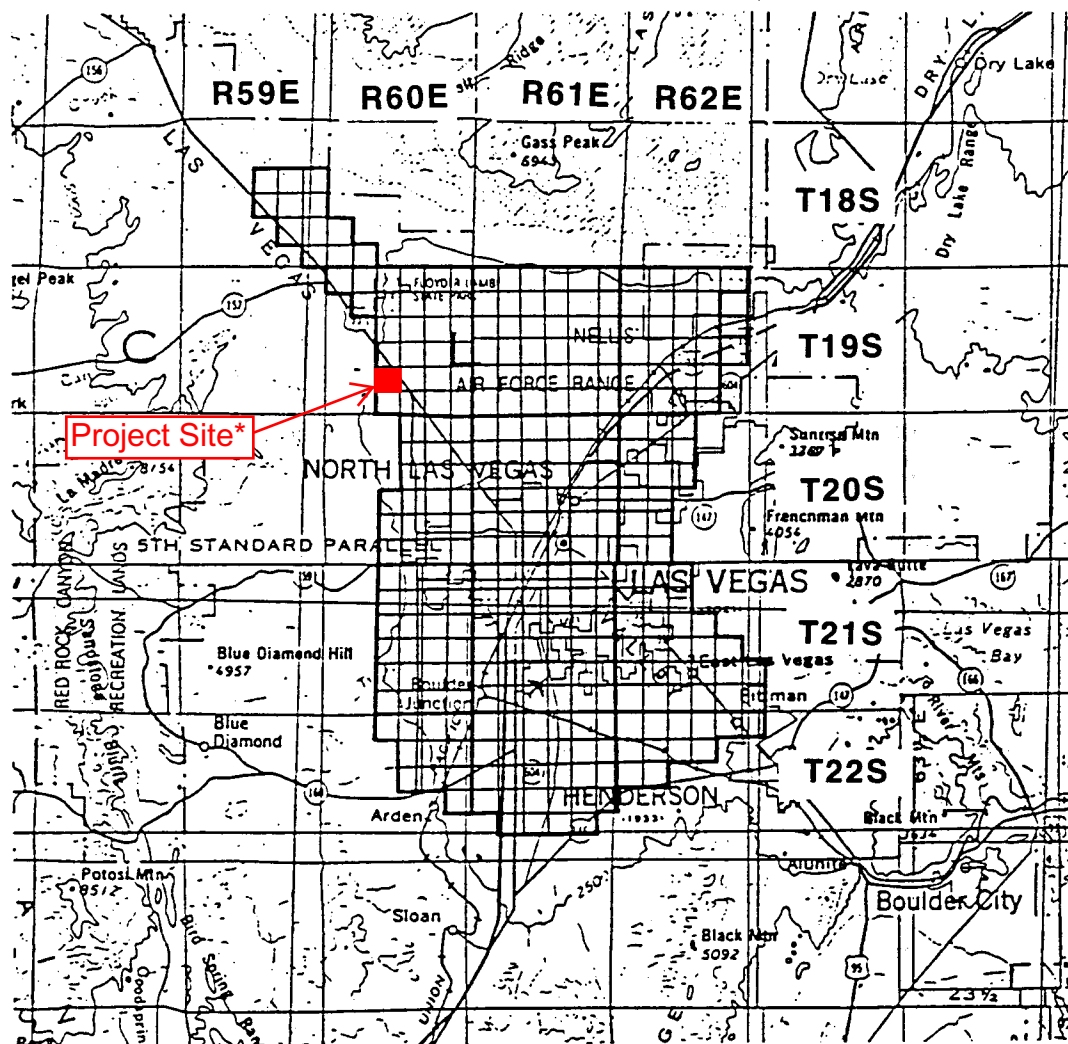
Precipitation, Curve Number & Lag Time Data



HCDDM Reference Rainfall Data Figure & Tables

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

McCARRAN AIRPORT RAINFALL AREA



TOWNSHIP RANGE SECTIONS

18 South	59 East	13-15,22-26,36
18 South	60 East	30-32
19 South	60 East	1-6,8-16,21-28,33-36
19 South	61 East	ALL SECTIONS
19 South	62 East	2-11,14-23,27-34
20 South	60 East	1-3,10-15,21-28,33-36
20 South	61 East	ALL SECTIONS

TOWNSHIP RANGE SECTIONS

20 South	62 East	4-9,16-20,29-32
21 South	60 East	1-4,9-16,21-28,33-36
21 South	61 East	ALL SECTIONS
21 South	62 East	4-9,15-23, 25-36
22 South	60 East	1-4,10-15,24
22 South	61 East	1-24,26-29
22 South	62 East	1-10,17-18

Notes:

1. Refer to Table 505 and Figure 516 Depth-Duration- Frequency values in the McCarran Airport Rainfall Area.
2. Refer to Table 506 and Figure 517 for Time-Intensity-Frequency values on the McCarran Airport Rainfall Area.

Revision	Date

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

DEPTH-DURATION-FREQUENCY VALUES FOR McCARRAN AIRPORT RAINFALL AREA (IN INCHES)

TIME	RECURRENCE INTERVAL					
	2-YR	5-YR	10-YR	25-YR	50-YR	100-YR
5 min.	0.15	0.27	0.35	0.46	0.54	0.63
10 min.	0.25	0.44	0.57	0.74	0.89	1.02
15 min.	0.33	0.57	0.74	0.97	1.15	1.32
30 min.	0.44	0.78	1.01	1.31	1.55	1.79
1 hour	0.52	0.89	1.15	1.50	1.78	2.06
2 hour	0.59	1.01	1.30	1.70	2.01	2.30
3 hour	0.64	1.08	1.39	1.82	2.15	2.48
6 hour	0.72	1.22	1.58	2.05	2.41	2.77
24 hour (TR-55)	1.20	1.60	1.80	2.40	2.70	2.96

- NOTE: 1. Refer to Figure 513 for a description and drawing of the area included in the McCarran Airport Rainfall Area.
2. The 24 hour values presented above are for use with TR-55 only.
3. Table 501 adjustments not required.

Revision	Date

SIX HOUR DEPTH-AREA REDUCTION FACTORS

<u>Drainage Area (Square Miles)</u>	<u>Six-Hour Depth-Area Reduction Factor</u>
0.0	1.00
0.5	0.98
1.0	0.97
2.0	0.93
4.0	0.91
6.0	0.90
8.0	0.88
10.0	0.86
20.0	0.79
30.0	0.74
50.0	0.68
100.0	0.60
150.0	0.55
200.0	0.51
300.0	0.46
400.0	0.42
500.0	0.39

- NOTES: 1. A graphical representation of these factors is presented in Figure 514.
2. Consult with the local entity and/or the CCRFCD for guidance in using the Depth-Area Reduction Factors for drainage areas greater than 200 square miles.

<i>Revision</i>	<i>Date</i>

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

SIX-HOUR STORM DISTRIBUTIONS

Percent of Total Storm Depth				Percent of Total Storm Depth			
Storm Time (In Minutes)	SDN3	SDN4	SDN5	Storm Time (In Minutes)	SDN3	SDN4	SDN5
0	0.0	0.0	0.0	185	32.2	37.6	43.0
5	2.0	2.0	2.0	190	35.2	41.5	47.7
10	5.7	5.8	5.9	195	40.9	46.2	51.4
15	7.0	7.5	8.0	200	49.9	53.0	56.1
20	8.7	9.9	11.0	205	59.0	61.0	63.0
25	10.8	12.6	14.4	210	71.0	71.0	71.0
30	12.4	13.7	15.0	215	74.4	73.2	72.0
35	13.0	14.5	16.0	220	78.1	75.6	73.1
40	13.0	14.9	16.8	225	81.2	78.2	75.2
45	13.0	15.1	17.1	230	81.9	79.9	77.9
50	13.0	15.5	18.0	235	83.5	81.3	79.0
55	13.0	15.6	18.2	240	85.1	82.3	79.5
60	13.0	15.9	18.7	245	85.6	83.0	80.4
65	13.3	16.2	19.0	250	86.0	83.5	81.0
70	14.0	16.9	19.7	255	86.8	84.4	82.0
75	14.2	17.2	20.2	260	87.6	85.1	82.6
80	14.8	17.9	21.0	265	88.8	86.4	84.0
85	15.8	18.9	22.0	270	91.0	88.5	85.9
90	17.2	20.1	23.0	275	92.6	90.8	88.9
95	18.1	21.1	24.1	280	93.7	92.4	91.0
100	19.0	22.0	25.0	285	95.0	94.4	93.8
105	19.7	22.8	25.9	290	97.0	96.8	96.6
110	19.9	23.2	26.5	295	97.6	97.3	97.0
115	20.0	24.0	28.0	300	98.2	97.8	97.4
120	20.1	24.6	29.0	305	98.5	98.2	97.9
125	20.4	25.2	30.0	310	98.7	98.4	98.1
130	21.4	26.0	30.5	315	98.9	98.6	98.3
135	22.9	26.9	30.9	320	99.0	98.8	98.5
140	24.1	27.6	31.0	325	99.3	99.1	98.9
145	24.9	28.3	31.7	330	99.3	99.2	99.0
150	25.1	28.6	32.1	335	99.4	99.3	99.2
155	25.6	29.2	32.7	340	99.5	99.4	99.3
160	27.0	30.2	33.3	345	99.8	99.7	99.6
165	27.8	31.2	34.6	350	99.8	99.8	99.7
170	28.1	32.1	36.1	355	99.9	99.9	99.9
175	28.3	33.2	38.1	360	100.0	100.0	100.0
180	29.5	35.2	40.8				

- Notes
1. For drainage areas less than 8 square miles in size, use SDN 3.
 2. For drainage areas greater than or equal to 8 square miles and less than 12 square miles in size, use SDN 4.
 3. For drainage areas greater than or equal to 12 square miles, use SDN 5.
 4. A graphical representation of these values is presented on **Figure 515**.

Revision	Date

REFERENCE:

TABLE 503

HCDDM Runoff Curve Number Table 602

RUNOFF CURVE NUMBERS (URBAN AREAS¹)

Cover description		Curve numbers for hydrologic soil group—			
Cover type and hydrologic condition	Average percent impervious area ²	A	B	C	D
<i>Fully developed urban areas (vegetation established)</i>					
Open space (lawns, parks, golf courses, cemeteries, etc.) ³ :					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved: curbs and storm sewers (excluding right-of-way)		98	98	98	98
Paved: open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only) ⁴ ...		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94	95
Industrial	72	81	88	91	93
Residential districts by average lot size:					

See Table 602A

Developing urban areas

Newly graded areas (pervious areas only, no vegetation) ⁵	77	86	91	94
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1 Average runoff condition, and $I_p = 0.2S$.

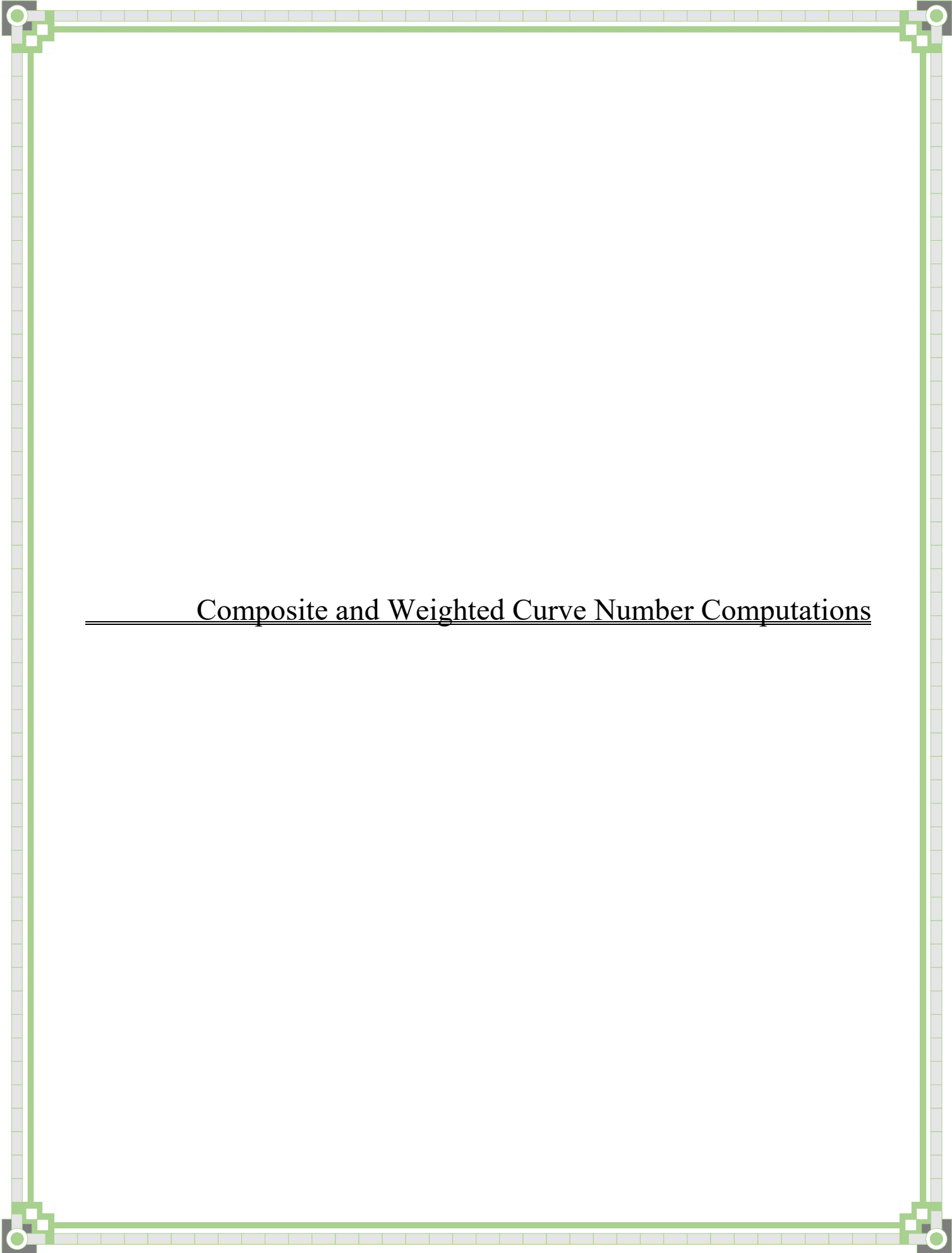
2 The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system. Impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using Figure 603.

3 CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

4 Composite CN's for natural desert landscaping should be computed using Figure 603 based on the impervious area percentage (CN #98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

5 Composite CN's to use for the design of temporary measures during grading and construction should be computed using Figure 603 based on the degree of development impervious area percentage) and the CN's for the newly graded pervious areas.

Revision	Date



Composite and Weighted Curve Number Computations

Soil Data & Curve Number Computation

Project Name & Number: Centennial 215 Plaza

Date: 8/18/2019

By: RFF

Data:
Reference:

 Exhibit D
NRCS Soil Data

Soil Type - Soil Survey Area & Version, Soil Description				A	B	C	D
LV	192	Las Vegas Valley 2016	Dalian-McCullough complex, 0 to 4 percent slopes	55%	35%	0%	10%

Land Use	A	B	C	D
Commercial	89	92	94	95
Newly Graded	77	86	91	94

*Commercial land use per Note 3

EXISTING CONDITION

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OSO	LV	191	3.3%	Roadway	100%	0%	0%	0%	98	98	98	98	0.02	3.27
OSO	LV	192	96.7%	Roadway	55%	35%	0%	10%	98	98	98	98	0.58	94.73
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									0.60	98.0

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
ONX1	LV	192	100.0%	Newly Graded	55%	35%	0%	10%	77	86	91	94	2.44	81.85
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									2.44	81.9

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
ONX2	LV	192	100.0%	Newly Graded	55%	35%	0%	10%	77	86	91	94	3.42	81.85
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									3.42	81.9

DEVELOPED CONDITION

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND1	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	0.72	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									0.72	90.7

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND2	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	0.74	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									0.74	90.7

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND3	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	1.13	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									1.13	90.7

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND4	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	2.41	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									2.41	90.7

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND5	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	1.01	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									1.01	90.7

Standard Form 4 Lag Time Computations



HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

TIME OF CONCENTRATION

Project Name: Centennial 215 Plaza

Project No.: 103114

File Name: Lag Time Standard Form 4.xls

By: TLD

Date: 8/18/2019

SUB-BASIN DATA				INITIAL / OVERLAND TIME (Ti)			TRAVEL TIME (Tt)				Tc		Tag							
DESIG:	DEV./EX. (D or E)	CN	K	AREA Ac	AREA Mi^2	INITIAL LENGTH Feet	SLOPE %	Ti Min	TRAVEL LENGTH Feet	SLOPE %	VELOCITY FPS	V1	VELOCITY FPS	V2	Tt Min	Tc Calc.	Total Length Feet	Tc Check	Urbanized Basins	Tag
			[1]		[2]			[3]				[4]			[5]	[6]	[7]	[8]	[9]	[10]
Existing Condition																				
OSO	D	98.0	0.904	0.60	0.0009	23	2.00	1.35	340	1.78	2.70	4.08	2.10	3.45	363	12.017	0.050			
ONX1	D	81.9	0.691	2.44	0.0038	188	1.81	8.28	442	1.72	2.65	4.01	2.78	11.06	630	13.500	0.111			
ONX2	D	81.9	0.691	3.42	0.0053	210	3.52	7.01	469	1.19	2.20	3.34	3.55	10.56	679	13.772	0.106			
Proposed Condition																				
OND1	D	90.7	0.807	0.72	0.0011	106	0.50	6.84	202	1.50	2.47	3.75	1.36	8.20	308	11.711	0.082			
OND2	D	90.7	0.807	0.74	0.0012	124	1.10	5.68	172	2.50	3.19	4.84	0.90	6.58	296	11.644	0.066			
OND3	D	90.7	0.807	1.13	0.0018	68	0.50	5.47	391	0.50	1.43	2.16	4.56	10.04	459	12.550	0.100			
OND4	D	90.7	0.807	2.41	0.0038	103	4.90	3.15	666	0.60	1.56	2.37	6.49	9.64	769	14.272	0.096			
OND5	D	90.7	0.807	0.86	0.0013	107	1.00	5.45	596	1.50	2.47	3.75	3.80	9.25	703	13.906	0.092			

[1] K = 0.0132 (CN) - 0.39

[2] A = Area/640

[3] Ti = (1.8 (1-K) L^0.5)/S^0.33

[4] For Existing Conditions: V1 = 14.8 * (S/100)^0.5

For Developed Conditions: V1 = 20.2 * (S/100)^0.5

[5] For Existing Conditions: V2 = 29.4 * (S/100)^0.5

For Developed Conditions: V2 = 30.6 * (S/100)^0.5

[6] Tt = L/(60*V)

[7] Tc = Ti + Tt

[8] Total L = Initial L + Travel L

[9] Tc = (L/180) + 10

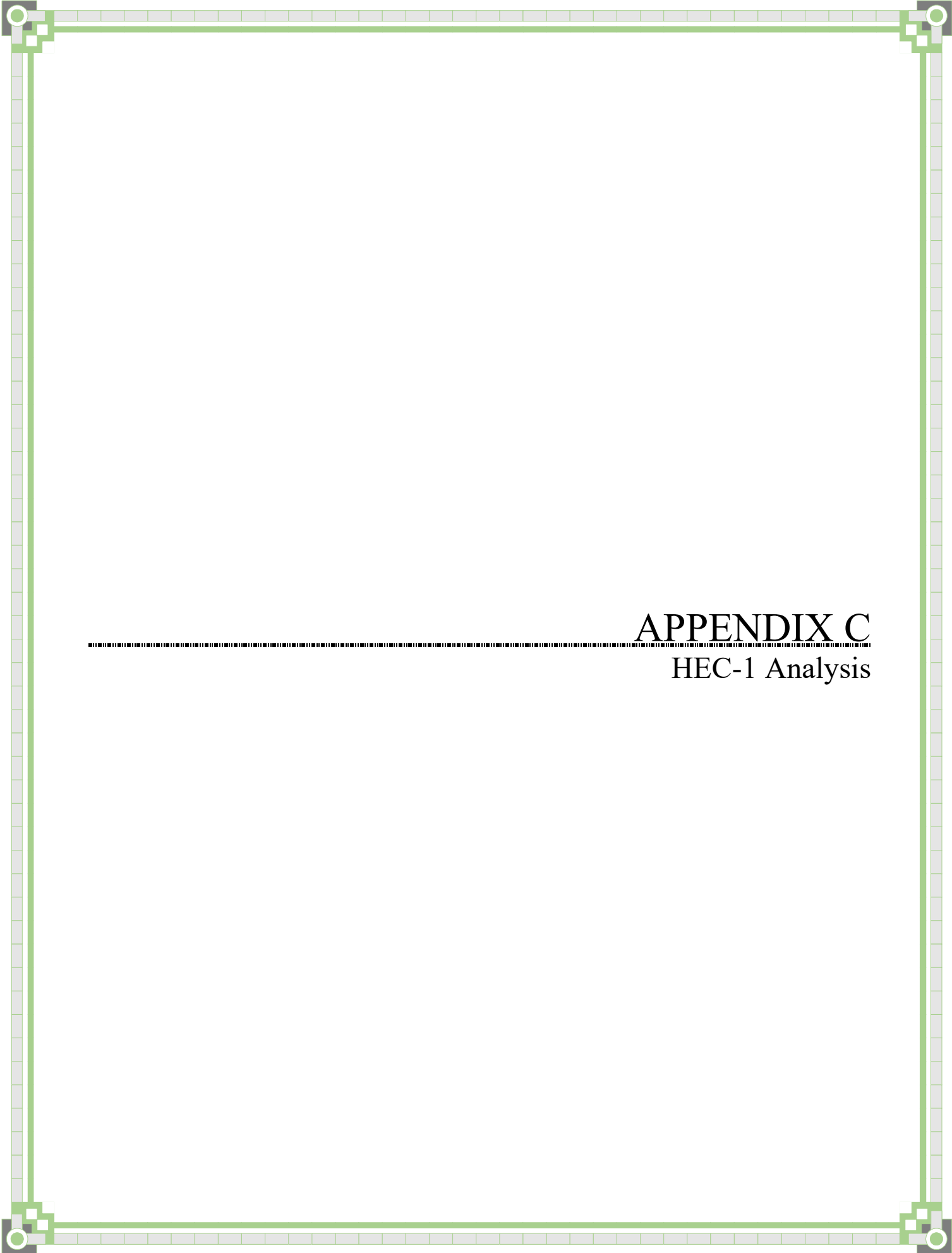
[10] Tlag = (0.6*Tc)/60

[11] Min Tlag = 0.05

Note: For Travel Time Calcs: V1 applies to first 500 feet and V2 applies to remaining distance.

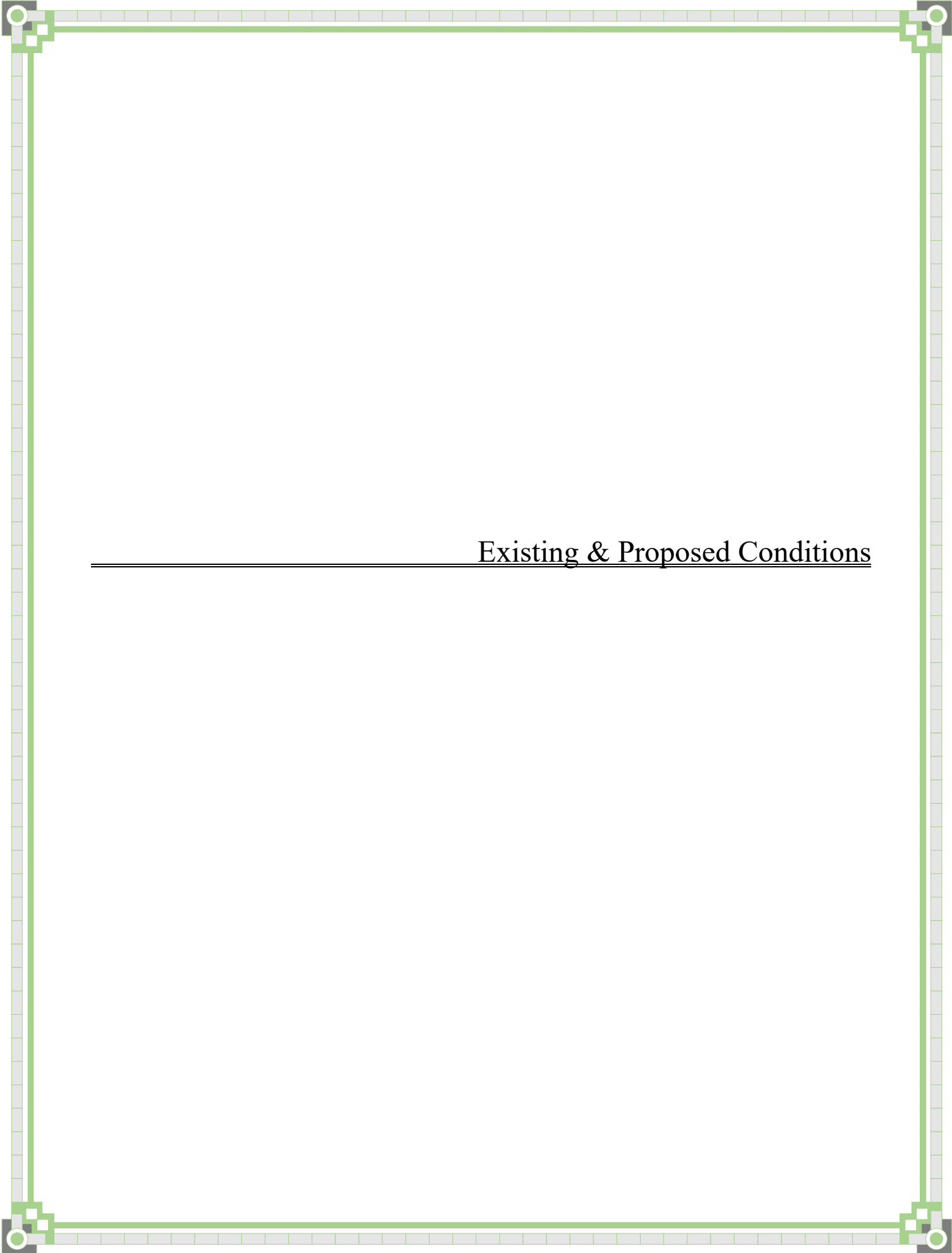
REFERENCE :

STANDARD FORM 4



APPENDIX C

HEC-1 Analysis



Existing & Proposed Conditions

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* JUN 1998 *
* VERSION 4.1 *
*
* RUN DATE 13AUG19 TIME 10:58:40 *
*
*****

```

```

*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 756-1104 *
*
*****

```

```

      X   X  XXXXXXX  XXXXX      X
      X   X  X      X   X      XX
      X   X  X      X   X      X
      XXXXXX XXXX  X      XXXXX  X
      X   X  X      X   X      X
      X   X  X      X   X      X
      X   X  XXXXXXX  XXXXX      XXX

```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
 NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
 DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
 KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1

HEC-1 INPUT

PAGE 1

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

```

*DIAGRAM
1 ID CENTENNIAL 215 PLAZA - TECHNICAL DRAINAGE STUDY
2 ID 10-YR & 100-YR, 6 HOUR STORM
3 ID PROPOSED CONDITION
4 ID @@@@@@@@@@@@@@@@@@
5 ID
6 ID Project Number: 103114
7 ID MOMENI ENGINEERS, LLC
8 ID 3110 S. DURANGO DRIVE, SUITE 205
9 ID LAS VEGAS, NEVADA 89117
10 ID
11 ID FILENAME ----- PR.H1
12 ID DATE ----- JULY 2019
13 ID MODELED BY ----- DHL
14 ID
15 ID *****
16 ID * SDN 3 VALUES - WITHIN McCARRAN AIRPORT RAINFALL AREA *
17 ID *****
18 ID
19 ID
20 IT 5 0 0 300
21 IO 5 0 0
22 IN 5 0 0
23 JR PREC 1.00 0.57
*

24 KK OSO
25 KM EXISTING RIGHT-OF-WAY
26 BA .0009
27 PB 2.77
28 PC 0 0.020 0.057 0.070 0.087 0.108 0.124 0.130 0.130 0.130
29 PC 0.130 0.130 0.130 0.133 0.140 0.142 0.148 0.158 0.172 0.181
30 PC 0.190 0.197 0.199 0.200 0.201 0.204 0.214 0.229 0.241 0.249
31 PC 0.251 0.256 0.270 0.278 0.281 0.283 0.295 0.322 0.352 0.409
32 PC 0.499 0.590 0.710 0.744 0.781 0.812 0.819 0.835 0.851 0.856
33 PC 0.860 0.868 0.876 0.888 0.910 0.926 0.937 0.950 0.970 0.976
34 PC 0.982 0.985 0.987 0.989 0.990 0.993 0.993 0.994 0.995 0.998
35 PC 0.998 0.999 1.000
36 LS 0 98.0
37 UD 0.050
*

38 KK OND1
39 KM DEVELOPED ONSITE BASIN
40 BA .0011
41 LS 0 90.7
42 UD 0.082
*

43 KK OND2
44 KM DEVELOPED ONSITE BASIN
45 BA .0012
46 LS 0 90.7

```

LINE

ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

48

KK

OND3

49

KM

DEVELOPED ONSITE BASIN

50

BA

.0018

51

LS

0 90.7

52

UD

0.100

*

53

KK

OND4

54

KM

DEVELOPED ONSITE BASIN

55

BA

.0038

56

LS

0 90.7

57

UD

0.096

*

58

KK

CP1

59

KM

COMBINE ONSITE BASINS IN STORM DRAIN

60

HC

3

*

61

KK

OND5

62

KM

DEVELOPED ONSITE BASIN

63

BA

.0013

64

LS

0 90.7

65

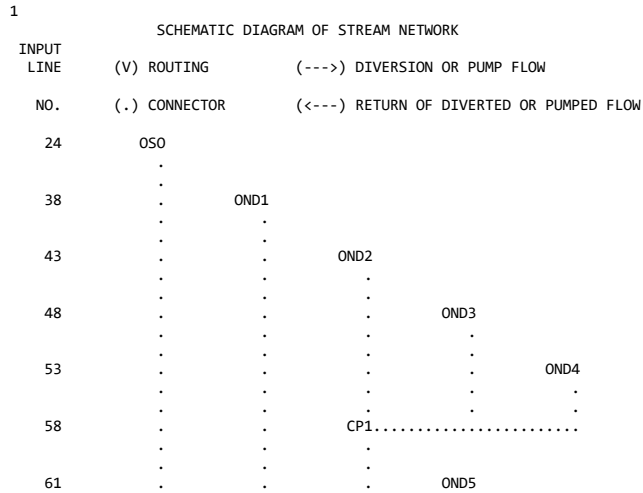
UD

0.092

*

66

ZZ



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1*****

FLOOD HYDROGRAPH PACKAGE (HEC-1)

JUN 1998

VERSION 4.1

RUN DATE 13AUG19

TIME 10:58:40

U.S. ARMY CORPS OF ENGINEERS

HYDROLOGIC ENGINEERING CENTER

609 SECOND STREET

DAVIS, CALIFORNIA 95616

(916) 756-1104

CENTENNIAL 215 PLAZA - TECHNICAL DRAINAGE STUDY

10-YR & 100-YR, 6 HOUR STORM

PROPOSED CONDITION

@@@@@@@@@@@@@@@@@@

Project Number: 103114

MOMENI ENGINEERS, LLC

3110 S. DURANGO DRIVE, SUITE 205

LAS VEGAS, NEVADA 89117

FILENAME ----- PR.H1

DATE ----- JULY 2019

MODELED BY ----- DHL

* SDN 3 VALUES - WITHIN MCCARRAN AIRPORT RAINFALL AREA *

21 IO OUTPUT CONTROL VARIABLES
 IPRNT 5 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
 NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME
 ICENT 19 CENTURY MARK

 COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

 ENGLISH UNITS
 DRAINAGE AREA SQUARE MILES
 PRECIPITATION DEPTH INCHES
 LENGTH, ELEVATION FEET
 FLOW CUBIC FEET PER SECOND
 STORAGE VOLUME ACRE-Feet
 SURFACE AREA ACRES
 TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION
 NPLAN 1 NUMBER OF PLANS

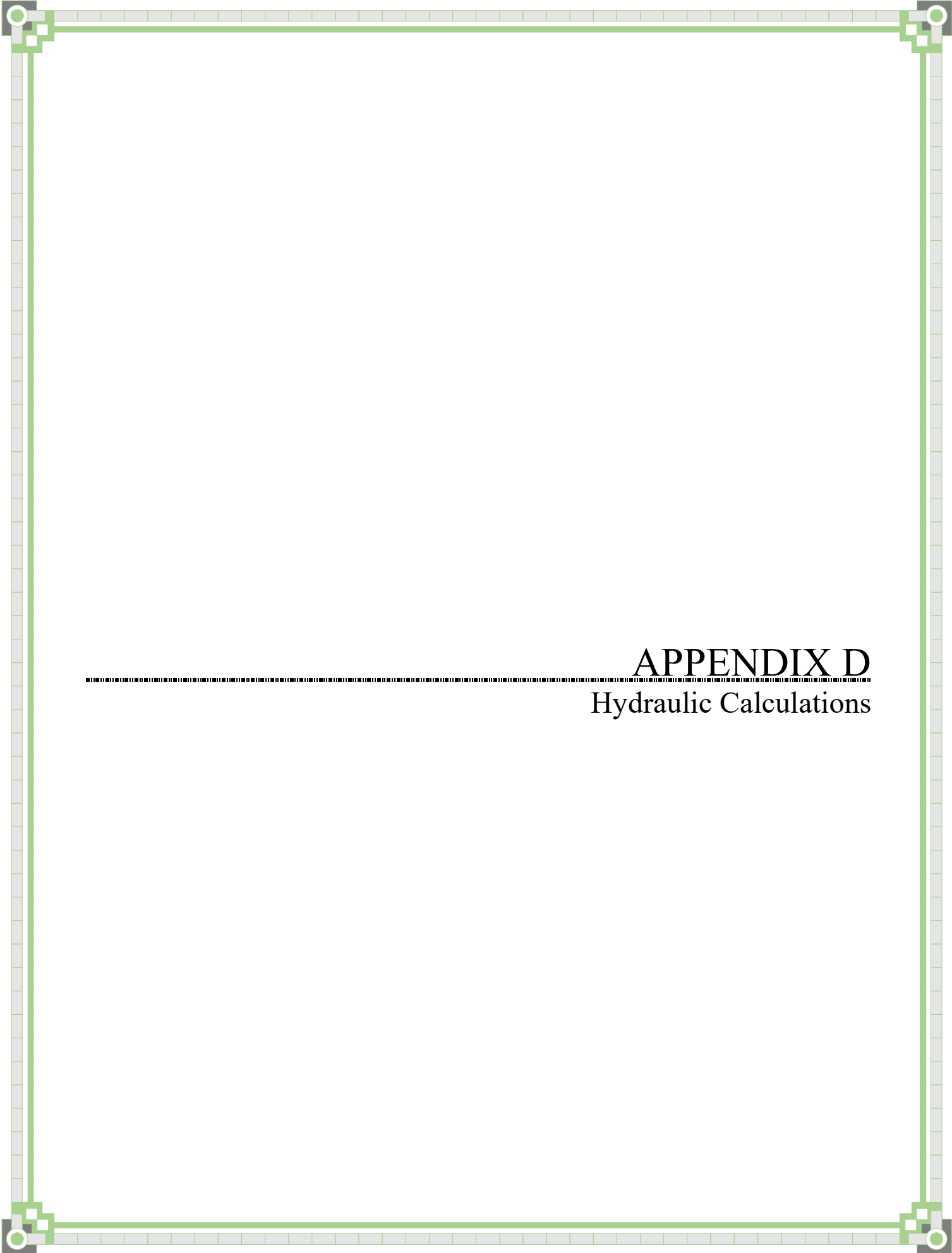
JR MULTI-RATIO OPTION
 RATIOS OF PRECIPITATION
 1.00 .57

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
 FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
 TIME TO PEAK IN HOURS

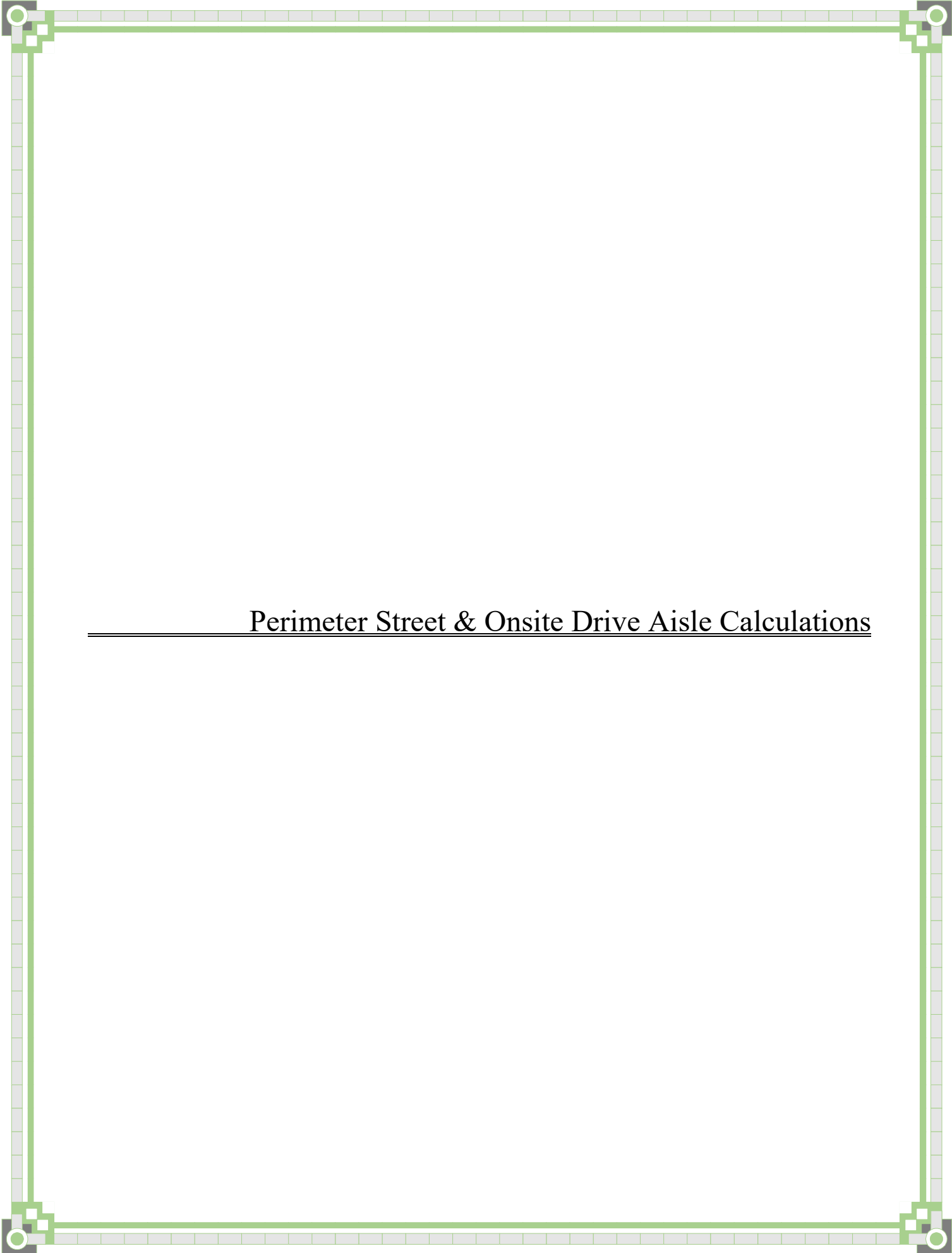
OPERATION	STATION	AREA	PLAN	RATIOS APPLIED TO PRECIPITATION	
				RATIO 1	RATIO 2
				1.00	.57
HYDROGRAPH AT					
+	OSO	.00	1 FLOW	2.	1.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND1	.00	1 FLOW	2.	1.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND2	.00	1 FLOW	2.	1.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND3	.00	1 FLOW	3.	1.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND4	.00	1 FLOW	6.	3.
			TIME	3.50	3.50
3 COMBINED AT					
+	CP1	.01	1 FLOW	11.	5.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND5	.00	1 FLOW	2.	1.
			TIME	3.50	3.50

*** NORMAL END OF HEC-1 ***



APPENDIX D

Hydraulic Calculations



Perimeter Street & Onsite Drive Aisle Calculations

Worksheet for Section - 2b

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 0.500 %
Discharge 3.00 ft³/s
Section Definitions

Station (ft)	Elevation (ft)
0+00.00	30.70
0+00.00	30.20
0+10.50	29.78
0+12.00	29.70
0+13.50	29.78
0+24.00	29.91
0+24.00	30.41

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00.00, 30.70)	(0+00.00, 30.20)	0.013
(0+00.00, 30.20)	(0+10.50, 29.78)	0.016
(0+10.50, 29.78)	(0+13.50, 29.78)	0.013
(0+13.50, 29.78)	(0+24.00, 29.91)	0.016
(0+24.00, 29.91)	(0+24.00, 30.41)	0.013

Options

Current Roughness weighted Pavlovskii's Method
Method
Open Channel Weighting Method Pavlovskii's Method
Closed Channel Weighting Method Pavlovskii's Method

Results

Normal Depth 0.24 ft
Elevation Range 29.70 to 30.70 ft

Worksheet for Section - 2b

Results

Flow Area	1.93	ft ²
Wetted Perimeter	17.55	ft
Hydraulic Radius	0.11	ft
Top Width	17.51	ft
Normal Depth	0.24	ft
Critical Depth	0.23	ft
Critical Slope	0.00763	ft/ft
Velocity	1.56	ft/s
Velocity Head	0.04	ft
Specific Energy	0.28	ft
Froude Number	0.83	
Flow Type	Subcritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0.24	ft
Critical Depth	0.23	ft
Channel Slope	0.500	%
Critical Slope	0.00763	ft/ft

Cross Section for Section - 2b

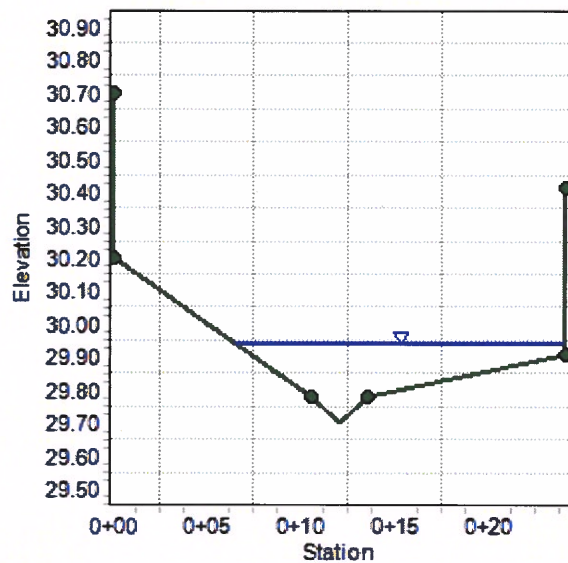
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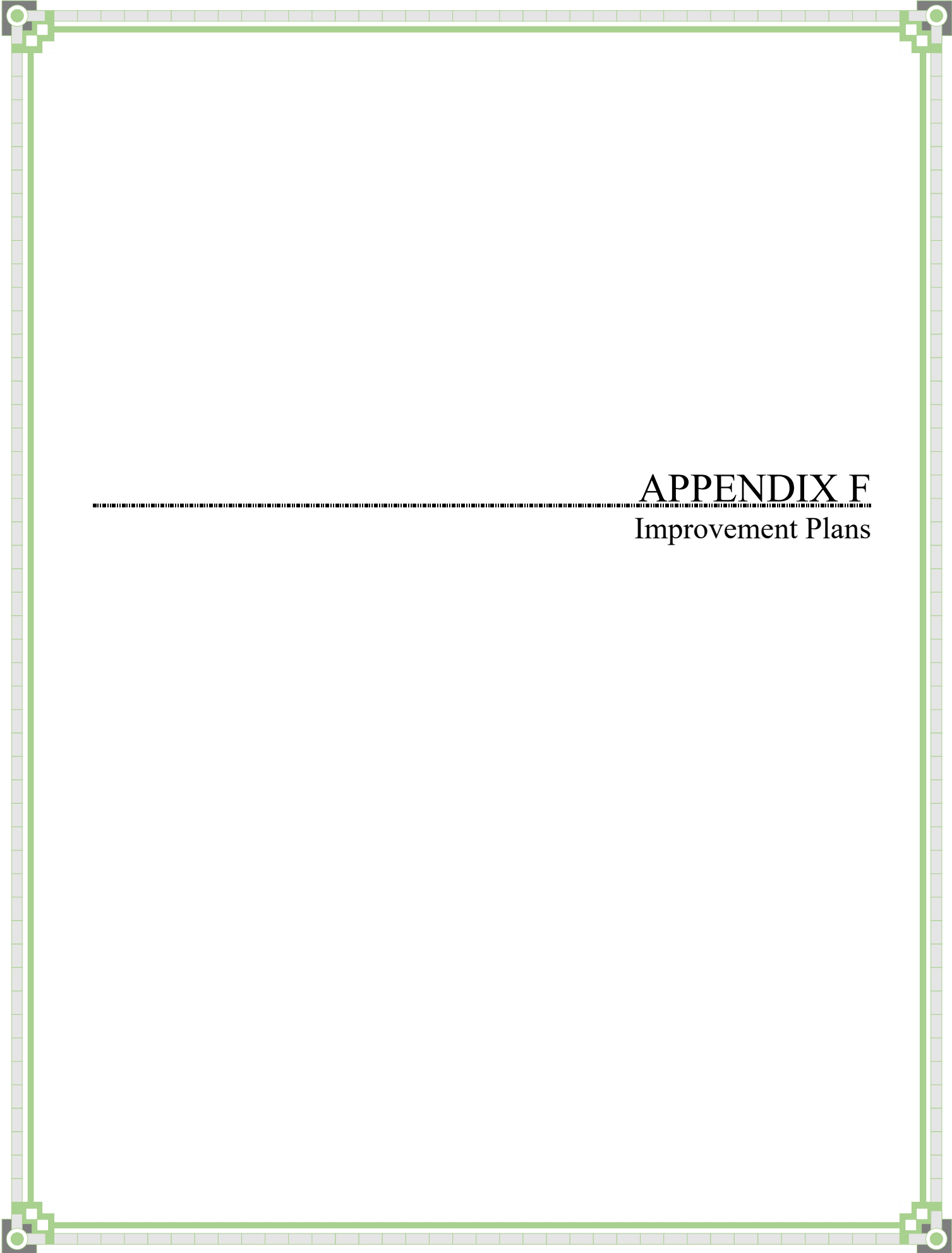
Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.500	%
Normal Depth	0.24	ft
Discharge	3.00	ft ³ /s

Cross Section Image

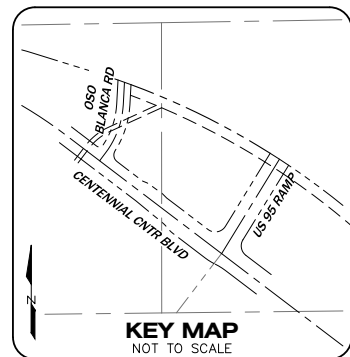




APPENDIX F

Improvement Plans

APN: 125-28-510-001
5.86± ACRES



CENTENNIAL 215 PLAZA
8350 W SAHARA #210
LAS VEGAS, NV 89117
CONTACT: MATT HUSS
EMAIL: Matt@GreatAC.com
TEL: 702 253-5371
FAX: 702 255-4556

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS ZONE (LOW DISTORTION PROJECTION), NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

THE BEARING EQUATION FOR THIS PROJECT WOULD BE THE CENTERLINE OF CENTENNIAL CENTER BOULEVARD HAVING A BEARING S 85° 00' 00" E, ALSO BEING 255.07' AS SHOWN ON MAP THEREOF ON FILE IN BOOK 95 OF PLATS, PAGE 45, OFFICIAL RECORDS, CLARK COUNTY NEVADA.

CITY OF LAS VEGAS BENCHMARK "5LV9028N4", BEING A RIVET
PLATE IN THE TOP OF CURB AT NW CORNER OF CENTENNIAL
CENTER PARKWAY & OSO BLANCA

WATER:	LAS VEGAS VALLEY WATER DISTRICT
SEWER:	CITY OF LAS VEGAS
GAS:	SOUTHWEST GAS CORPORATION
ELECTRIC:	NEVADA POWER COMPANY
TELEPHONE:	CENTRAL TELEPHONE COMPANY, d/b/a CENTURYLINK
CABLE:	COX COMMUNICATIONS OF LAS VEGAS, INC.
TRASH:	REPUBLIC SERVICES OF NEVADA

GEOTECHNICAL REPORT PREPARED BY: GEOTEK
6835 S ESCONDIDO ST SUITE A LAS VEGAS, NV 89119
PROJECT NO.: 15058-LV
DATED: 9/28/2019

momeni ENGINEERS, LLC
CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117
TEL: (702) 902-2444 FAX: (702) 248-8495 | LMOE@MHWENGINEERS.COM

TEL: (702) 902-2444 | FAX: (702) 248-8495 | MOE@MHMEENGINEERS.COM

APPROVAL OF THESE PLANS IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS, EXCEPT THOSE SPECIFICALLY LISTED UNDER DEVIATIONS FROM STANDARD. THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN DEVIATIONS FROM STANDARDS IN FAVOR OF THE UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS CLARK COUNTY AREA NEVADA

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. _____ FIRST APPROVAL DATE: _____

LVVWD APPROVED FIRE FLOW: TOTAL 2,750 GPM / ON-SITE 2,750 GPM

SHEETS: C-1, C-2, U-M, U-1, U-2

NV ENERGY COMPANY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY COMPANY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

THE AFFIXED CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

1.	COVER AND APPROVALS SHEET.	C-1
2.	NOTE SHEET.	C-2
3.	REMOVAL AND DEMOLITION PLAN.	R-1
4.	MASTER GRADING PLAN.	G-M
5.	GRADING PLAN (1 OF 2).	G-1
6.	GRADING PLAN (2 OF 2).	G-2
7.	DETAIL SHEET (1 OF 2).	D-1
8.	DETAIL SHEET (2 OF 2).	D-2
9.	MASTER UTILITY AND FIRE ACCESS PLAN.	U-M
10.	UTILITY PLAN (1 OF 2).	U-1
11.	UTILITY PLAN (2 OF 2).	U-2
12.	HORIZONTAL CONTROL PLAN.	H-1
13.	TRAFFIC AND STREETLIGHTING PLAN (1 OF 2).	T-1
14.	TRAFFIC AND STREETLIGHTING PLAN (2 OF 2).	T-2

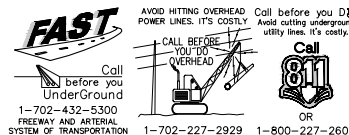


2/07/20
DATE
103114
PROJECT NUMBER
LB
DRAWN BY
MM
CHECKED BY

SHEET:

C-1

1 OF 14

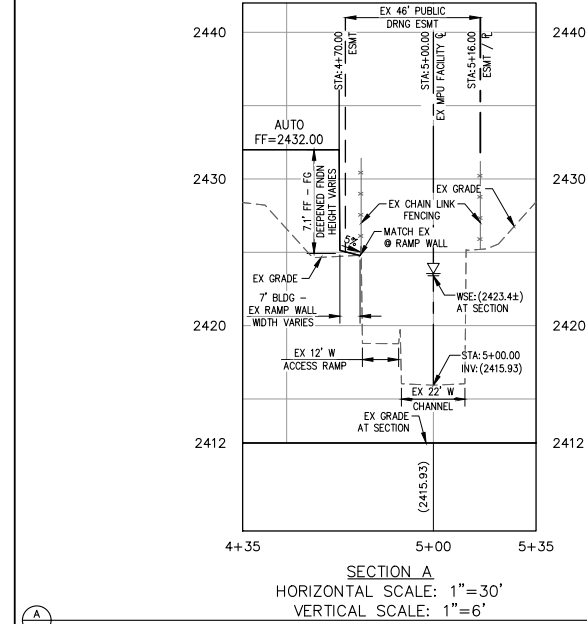
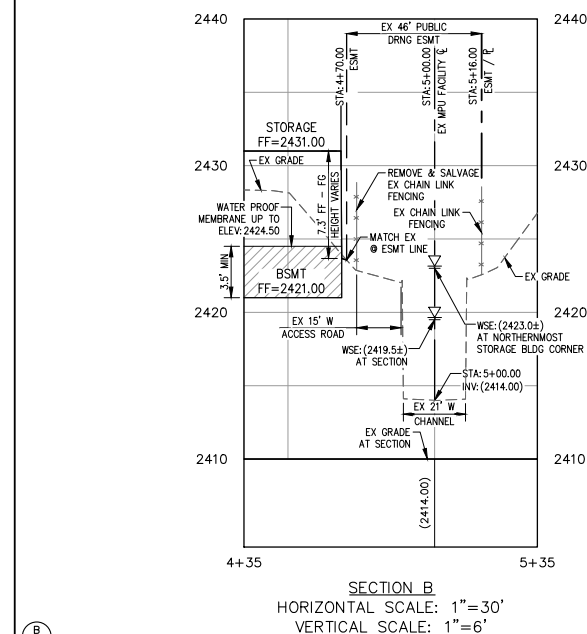
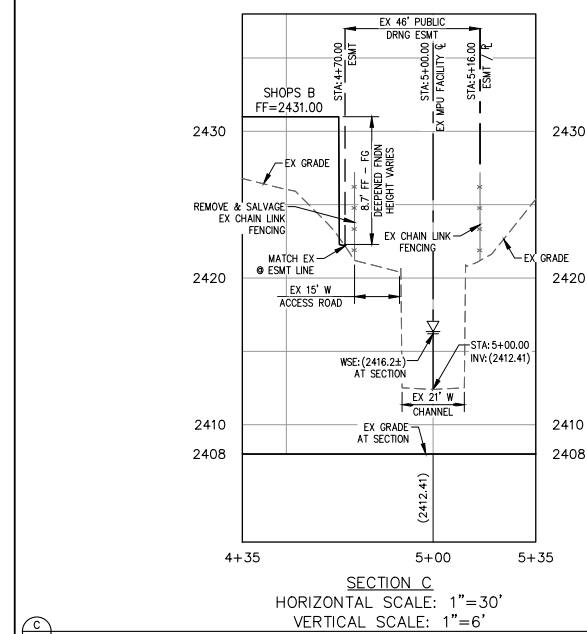
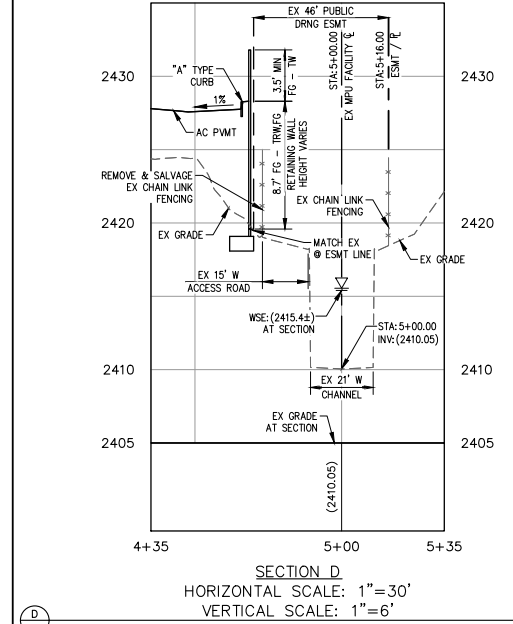
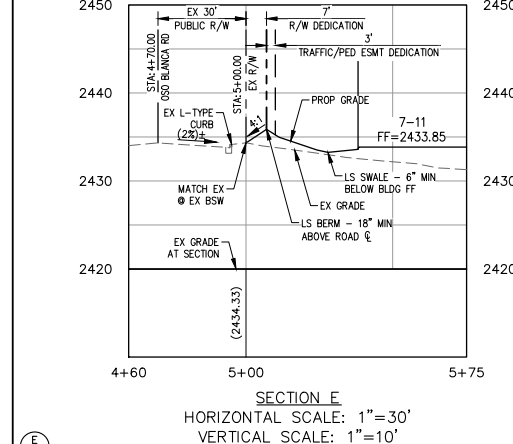
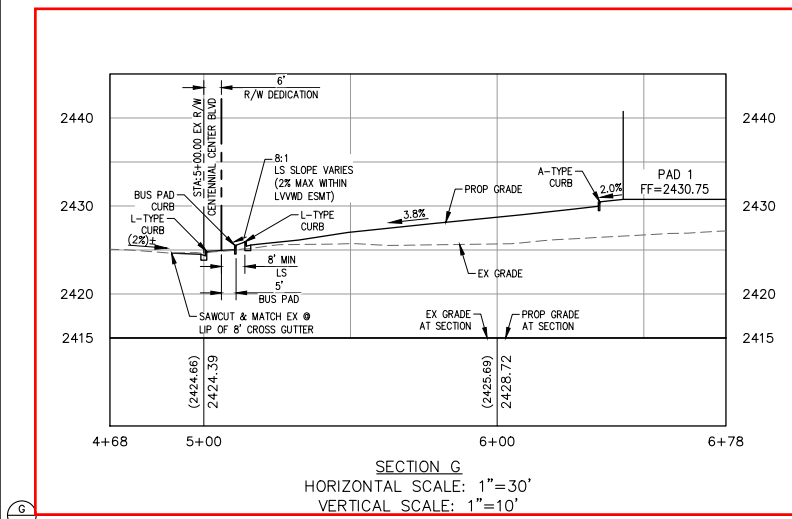
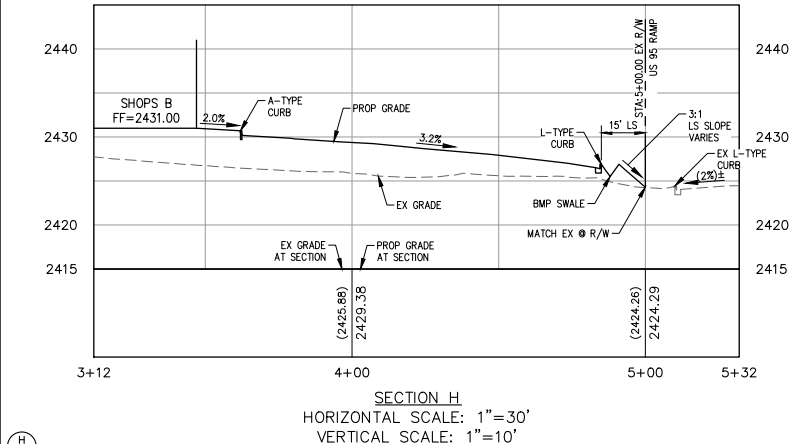
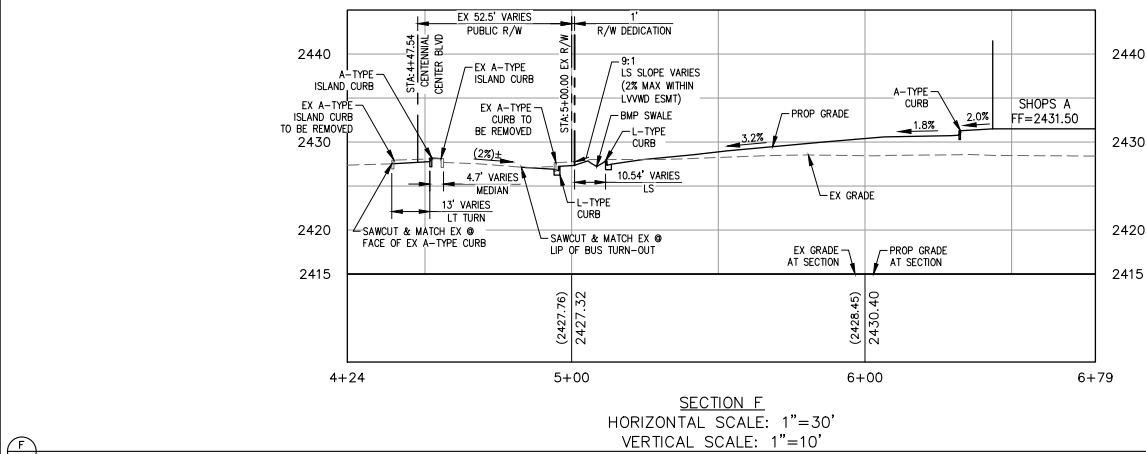


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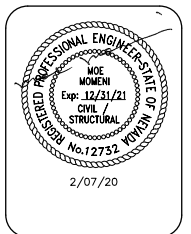
NOT USED
NOT TO SCALE

NOT USED
NOT TO SCALE



#	DATE	BY	DESCRIPTION	APPROVAL

momeni ENGINEERS, LLC
CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117
TEL: (702) 902-2444 | FAX: (702) 248-8495 | MCE@MMEENGINEERS.COM



2/07/20
DATE
103114
PROJECT NUMBER
LB
DRAWN BY
MM
CHECKED BY

**CENTENNIAL
215 PLAZA**
CITY OF LAS VEGAS, NV
**DETAIL SHEET
(2 OF 2)**

SHEET:
D-2
8 OF 14

Appendix C – Improvement Plans



CIVIL IMPROVEMENT PLANS

FOR

CHICK-FIL-A RESTAURANT NO. 04548

US 95 & CENTENNIAL

APN: A PORTION OF 125-28-510-001

CITY OF LAS VEGAS, NEVADA

PROJECT CONTACTS

DEVELOPER
CHICK-FIL-A
5200 BUFFINGTON RD
ATLANTA, GA 30349-2998
CONTACT: STEVE SCHWARTZ
(303) 519-4834

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BOULEVARD SOUTH, SUITE 320
LAS VEGAS, NEVADA 89119
CONTACT: TREASEA WOLF
(702) 862-3600

PROJECT SURVEYOR
TRUE POSITION LAND SURVEYING-NEVADA LLC
865 BUFFWOOD AVE
LAS VEGAS, NV 89123
CONTACT: CHRISTOPHER ALBERS
(702) 897-2910

PROJECT ARCHITECT
CORE STATES
20101 SOUTHWEST BIRCH ST SUIT 260
NEWPORT BEACH, CA 92660
CONTACT: KEITH GROWE
(T) (949) 432-6860

OWNER
CENTENNIAL 215 PLAZA LLC
8350 WEST SAHARA #210
LAS VEGAS, NV 89117
CONTACT: MATT HUSS
(T) (702) 253-5371

PROJECT INFORMATION

NUMBER OF LOTS: 1
ACREAGE: ±5.86 ACRES
LEASED ACREAGE: ±1.49 ACRES
DISTURBED: ±0.53 ACRES
ZONING: (C-2) GENERAL COMMERCIAL

BENCHMARK

THE ELEVATION DATA SHOWN HEREON IS U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88) CITY OF LAS VEGAS VERTICAL CONTROL NETWORK, RE-OBSERVED 2005-2007, BASED ON:
MONUMENT ID 57V9028N66
SECTION 28, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M.

DESCRIPTION: RIVET & PLATE IN TOP OF CURB AT NW CORNER OF CENTENNIAL CENTER PARKWAY & US 95 SOUTHBOUND OFF RAMP.

ELEVATION: 738.593 METERS
2423.20 U.S. SURVEY FEET

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THE SURVEY SHOWN HEREON IS SOUTH 53°05'47" EAST AS DEFINED BY THE MONUMENTS SHOWN HEREON, BEING THE CONTROL LINE OF CENTENNIAL CENTER BOULEVARD AS DERIVED BY BOOK 95 OF PLATS, PAGE 45, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.

LEGAL DESCRIPTION

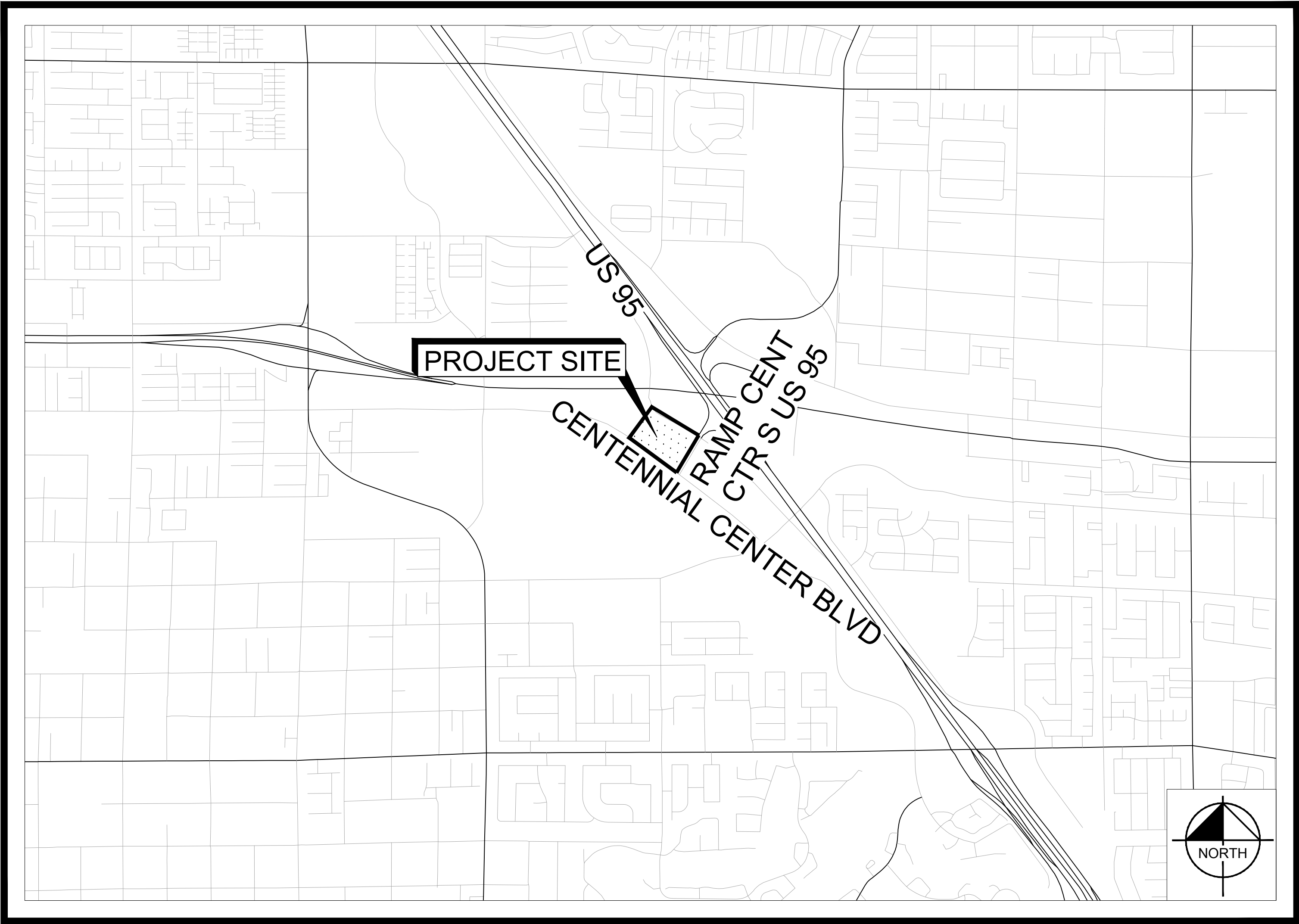
ISSUING OFFICE FILE NUMBER: CENTENNIAL 95 PLAZA FSU #04548
THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF CLARK, STATE OF NEVADA, AND DESCRIBED AS FOLLOWS:
LOT TWO (2) OF CENTENNIAL CENTRE UNIT 2 (A COMMERCIAL SUBDIVISION), AS SHOWN BY MAP THEREOF ON FILE IN BOOK 95 OF PLATS, PAGE 45, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) PANEL NUMBER 32003C1745E, REVISED SEPTEMBER 27, 2002 INDICATE THAT THE PROJECT SITE IS LOCATED IN ZONE 'X'. ZONE 'X' IS DEFINED BY FEMA AS 'AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.'

SHEET INDEX:

PG	SHEET	DESCRIPTION
1	C1.0	COVER SHEET
2	C1.1	GENERAL NOTES
3	C1.2	QUANTITIES
4	C2.0	SITE & HORIZONTAL CONTROL PLAN
5	C3.0	GRADING PLAN
6	C3.1	TYPICAL SECTIONS
7	C4.1	TYPICAL DETAILS 1
8	C4.2	TYPICAL DETAILS 2
9	C4.3	TYPICAL DETAILS 3
10	C5.0	UTILITY PLAN



PROJECT VICINITY MAP
NTS

GEOTECHNICAL REPORT

ALL GRADING AND PAVEMENT SECTIONS SHALL CONFORM TO THE GEOTECHNICAL REPORT:

ENGINEER: TERRACON
DATED: 3/9/2020
PROJECT No: 64205019

UTILITY NOTE

KIMLEY-HORN AND ASSOCIATES TAKES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN HEREIN. THE EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY OTHER PARTIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY THE LOCATIONS AND INVERTS OF THE EXISTING WITHIN THE VICINITY OF CONSTRUCTION ACTIVITIES. IF A CONFLICT IS FOUND TO EXIST, THE CONTRACTOR SHALL COORDINATE THE PROJECT ENGINEER, PROJECT ARCHITECT, AND THE OWNER IMMEDIATELY.

REFERENCE INFORMATION:

TECHNICAL DRAINAGE STUDY: DS5190
TRAFFIC STUDY: TIA 76072
BUILDING PERMIT: XXX
ENTITLEMENTS: VAR-77252, SUP-77188, SUP-77189, SUP-77190, SUP-77193, SUP-77194, SUP-77314, SUP-77315, SDR-77191, TMP-77192

APPROVALS

CITY OF LAS VEGAS

"APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHTS-OF-WAY AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIFICALLY LISTED UNDER "DEVIATIONS FROM STANDARDS" THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN "DEVIATION FROM STANDARDS" IN FAVOR OF THE SUMMERLIN IMPROVEMENT STANDARDS AND SPECIFICATIONS CLARK COUNTY AREA NEVADA".

CITY OF LAS VEGAS FIRE AND RESCUE DATE

CENTRAL TELEPHONE COMPANY D/B/A CENTURYLINK DATE

THE AFFIXED CENTRAL TELEPHONE COMPANY D/B/A CENTURYLINK NEVADA APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

COX COMMUNICATIONS LAS VEGAS, INC. DATE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO.: XXXX FIRST APPROVAL DATE:
LVWVD APPROVED FIRE FLOW: TOTAL 1500 GPM/ONSITE 1500 GPM

NV ENERGY DATE

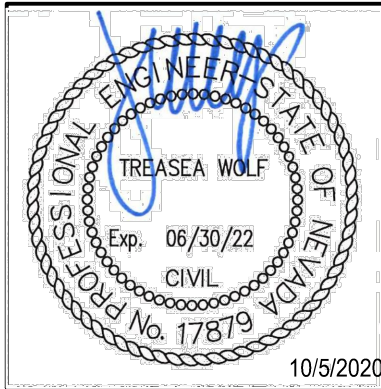
NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NEVADA POWER COMPANY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

SOUTHWEST GAS CORPORATION SWG IUD DATE

CLV #:



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998



CHICK-FIL-A
CENTENNIAL 95 PLAZA
6410 CENTENNIAL CENTER BLVD.
LAS VEGAS, NV 89146

FSR# 4548

REVISION SCHEDULE
NO. DATE DESCRIPTION

AGENCY # TBC
PROJECT # 09290802
PRINTED FOR AGENCY SUBMITTAL
DATE 10/5/2021
DESIGN BY JZ
DRAWN BY CJ

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SHEET
COVER SHEET

SHEET NUMBER

C1.0

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CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" LATEST EDITION, CLARK COUNTY AREA, NEVADA, LATEST EDITION, THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS" CONSTRUCTION, CLARK COUNTY AREA, NEVADA, LATEST EDITION, THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE UNIFORM BUILDING CODE, AND LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½) ABOVE UP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMP AND CROSS GUTTERS.
9. CURB AND GUTTER DUD TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY TERRACON, PROJECT NO 64185122, MARCH 28, 2019, APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC., TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE: AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 06/04/2018

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION. ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

A. PAVEMENT AREA SUBGRADE	0.1+/-	HORIZONTAL	+0.0' TO -0.1'	SEE SOILS REPORT
B. ENGINEERED FILL	0.5+/-	VERTICAL	+0.1' TO -0.1'	SEE SOILS REPORT

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH AN ITEM AT THE CONTRACTOR'S OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/2010



LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

- LVVWD PROJECT NO. TBD
1. NO WORK SHALL BEGIN UNTIL THE PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
 2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS). THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
 3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
 4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
 5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SADDLES.
 6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
 7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
 8. ALL WATER AND STORM DRAIN AND SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
 9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
 10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
 11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUT DOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
 12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED MATERIALS PRODUCT'S LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
 13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
 14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.
 15. ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.
 15. NO LEAD COMPLIANCE NOTE:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. xxx FIRST APPROVED DATE:

SWPPP NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVED ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF LAS VEGAS AND CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE OR DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR SHALL MAINTAIN AND UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTION MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

DEVIATION FROM STANDARDS

NONE

LAS VEGAS FIRE & RESCUE GENERAL NOTES FOR HYDRANTS AND ACCESS

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6631 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [FC 105.6.15]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [FC 3310, 3312]
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [FC 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [FC 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [FC 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [FC 507]
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [FC 507.5.7.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [FC 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [FC C102]

RESIDENTIAL - 500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
COMMERCIAL - 300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1,000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [FC C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION [FC C102.10]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AND APPROVED ROUTE. [FC C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE [FC C102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [FC C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ON SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. [FC C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [FC 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [FC 503.2.7, 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [FC. 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. [FC 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33FT WITH PARKING ON BOTH SIDES MEASURED TO FACE OF CURB. NOT LESS THAN 28 FT WIDE WITH PARKING RESTRICTED TO ONE SIDE MEASURED TO FACE OF CURB. NOT LESS THAN 24 FT WIDE WITH NO PARKING ON EITHER SIDE MEASURED TO THE FACE OF CURB. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [FC. 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. [FC 503.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. CLV REGULATION AND MOU.
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LINES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. CLV REGULATION.
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [FC 503.3]
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. [FC 503.6]
29. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNT OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET OF THE PROPOSED DEVELOPMENT. CLV REGULATION.

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USSF), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623.3 OF THE USS.
4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623.6.03.01 OF THE USS.
5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623.6.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
7. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWINGS NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
8. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

REVISED JUNE 4, 2018 (LD VERSION)

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBSTRUCTION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTO), IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED JUNE 4, 2018

SOUTHERN NEVADA- SOUTHWEST GAS CORPORATION GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.

ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES.

3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION
4. IN THE EVENT OF NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099

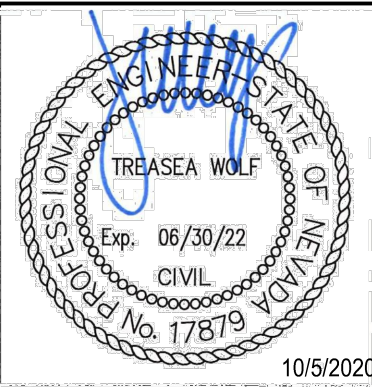
CAUTION: HIGH PRESSURE GAS!
CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION

APPROVED FOR CONSTRUCTION		
SOUTHWEST GAS CORPORATION	SWG IUD	DATE



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FSR# 4548

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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AGENCY # TBD

PROJECT # 092908028

PRINTED FOR

DATE	AGENCY SUBMITTAL
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DESIGN BY JZ

DRAWN BY CT

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SHEET

GENERAL NOTES

SHEET NUMBER

CLV #:

C1.1

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CONSTRUCTION NOTES QUANTITIES

		UNIT	PRIVATE	PUBLIC
①	CONSTRUCT "L" TYPE CURB & GUTTER PER DETAIL 17 OPTION B, SHEET C4.2	LF	459	—
②	CONSTRUCT "A" TYPE CURB PER DETAIL 7, SHEET C4.1	LF	384	—
③	CONSTRUCT SIDEWALK PER DETAIL 12, SHEET C4.1	SF	2290	—
④	CONSTRUCT CONCRETE PAVING DRIVE—THRU LANE PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 20, SHEET C4.2	SF	784	—
⑤	CONSTRUCT STANDARD AC PAVEMENT PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 16, SHEET C4.2	SY	343	—
⑥	DRIVE—THRU ISOMETRIC PLAN VIEW PER DETAILS 13 & 14, SHEET C4.2	SF	240	—
⑦	CONSTRUCT 0" CURB	SF	36	—
⑧	CONSTRUCT 0" TO 6" TRANSITION PER DETAIL 15, SHEET C4.2	LF	117	—
⑨	CONSTRUCT CONCRETE/AC EDGE PER DETAIL 19, SHEET C4.2	LF	59	—
⑩	CONSTRUCT ONSITE ADA RAMP PER DETAIL 10, SHEET C4.1	EA	1	—
⑪	CONSTRUCT CONTRACTION JOINT (C-J) PER DETAIL 18, SHEET C4.2	LF	96	—
⑫	CONSTRUCT EXPANSION JOINT (E-J) PER DETAIL 27, SHEET C4.3	LF	48	—
⑬	DRIVE—THRU ISLAND CURB PER DETAIL 23, SHEET C4.3	EA	1	—
⑭	CONSTRUCT SIDEWALK WITH 6" CURB SECTION PER DETAIL 13, SHEET C4.1	SF	261	—
⑮	CONSTRUCT TRUNCATED DOMES PER DETAIL 11, SHEET C4.1	EA	—	—
⑯	INSTALL CURB—O—LET DRAINS AND OUTLET AT CURB FACE PER DETAIL 24, SHEET C4.3	EA	2	—
⑰	CONSTRUCT 2.0' CURB OPENING PER DETAIL 22, SHEET C4.2	EA	1	—
⑱	PROPOSED LANDSCAPING PER SEPARATE LANDSCAPE PLANS			
⑲	MATCH EXISTING			
⑳	EXISTING SIGHT VISIBILITY ZONE			

ON-SITE SIGNAGE & TRAFFIC QUANTITIES

		UNIT	PRIVATE	PUBLIC
①	INSTALL "WATCH FOR VEHICLES" SIGN PER DETAIL 6 ON SHEET C4.1	EA	2	—
②	INSTALL "PEDESTRIAN CROSSING" SIGN PER DETAIL 6 ON SHEET C4.1	EA	2	—
③	INSTALL ADA ACCESSIBLE SIGN PER DETAIL 6, SHEET C4.1	EA	2	—
④	INSTALL FLAG POLE PER SIGN PLAN DONE BY CFA	EA	4	—
⑤	INSTALL DIRECTIONAL ARROWS PER DETAIL 1, SHEET C4.1	EA	17	—
⑥	INSTALL ADA ACCESSIBLE STRIPING PER DETAIL 5, SHEET C4.1	SF	324	—
⑦	INSTALL PAINTED ACCESSIBILITY SYMBOL PER DETAIL 4, SHEET C4.1	EA	2	—
⑧	INSTALL MENU BOARD PER DETAIL 25, SHEET C4.3	EA	2	—
⑨	INSTALL DIRECTIONAL SIGNAGE PER DETAIL 6, SHEET C4.1	EA	4	—
⑩	INSTALL CROSSWALK PER DETAIL 9, SHEET C4.1	EA	2	—
⑪	ADD MULTI-LANE DIRECTIONAL GRAPHICS PER DETAIL 8, SHEET C4.1	EA	1	—
⑫	LANDSCAPE			

ON-SITE SEWER QUANTITIES

		UNIT	PRIVATE	PUBLIC
①	CONNECT TO EXISTING 6" LATERAL (PRIVATE)—CONTRACTOR TO VERIFY INVERT PRIOR TO CONSTRUCTION	EA	1	—
②	INSTALL 6" PVC SDR-35 SEWER LATERAL PER DCSWCS SD-21 (PRIVATE)	LF	21	—
③	INSTALL 6" CLEAN OUT WITH TRAFFIC RATED LID PER DCSWCS SD-24 (PRIVATE)	EA	2	—
④	INSTALL WYE & 45° BEND PER DCSWCS SD-21 (PRIVATE)	EA	2	—
⑤	END CIVIL SEWER LATERAL — SEE PLUMBING PLANS FOR CONTINUATION	EA	—	—
⑥	INSTALL 1500 GAL GREASE INTERCEPTOR—JENSEN MODEL #P1500EE-G OR EQUIVALENT—SEE DETAIL 27, SHEET C4.3 (PER PLUMBING PLAN OR SEPARATE PERMIT)	EA	1	1
⑦	INSTALL SAMPLE BOX WITH PIPE CONNECTION—JENSEN MODEL 2432-Z OR EQUIVALENT—SEE DETAIL 28, SHEET C4.3	EA	1	1

MASTER LEGEND

	STREET CENTERLINE		EXISTING PARKING STRIPING
	PROPERTY LINE		PROPOSED ROAD STRIPING
	ADJACENT PROPERTY LINE		PROPOSED PARKING STRIPING
	EXISTING LOT LINE		EXISTING CONTOUR
	EXISTING EASEMENT		PROPOSED CONTOUR
	EXISTING PATENT EASEMENT		CUT FILL TRANSITION
	EXISTING PROPERTY LINE TO BE VACATED		ADA ACCESS
	EXISTING PATENT EASEMENT TO BE VACATED		SAWCUT LIMITS
	EXISTING WALL		RIDGE
	PROPOSED RETAINING & SCREEN WALL		GRADE BREAK
	PROPOSED SCREEN WALL		FLOW LINE
	EXISTING FENCE		EXISTING STORM DRAIN
	PROPOSED FENCE		EXISTING STORM DRAIN TO BE REMOVED
	EXISTING BUILDING		EXISTING SEWER LINE
	PROPOSED BUILDING		EXISTING WATER LINE
	PROPOSED CONCRETE BARRIER RAIL		EXISTING GAS LINE
	EXISTING CURB & GUTTER		PROPOSED SEWER
	EXISTING CURB		PROPOSED SEWER LATERAL
	EXISTING SIDEWALK		PROPOSED WATER LINE
	EXISTING VALLEY GUTTER		PROPOSED STREET LIGHT CONDUIT
	PROPOSED CURB & GUTTER		PROPOSED TRAFFIC CONDUIT
	PROPOSED CURB		EXISTING SIGN
	PROPOSED SIDEWALK		PROPOSED SIGN
	EXISTING EDGE OF PAVEMENT		EXISTING HANDICAP PARKING
	PROPOSED EDGE OF PAVEMENT		PROPOSED HANDICAP PARKING
	EXISTING EDGE OF PAVEMENT TO BE REMOVED		EXISTING STORM DRAIN MANHOLE
	EXISTING ROAD STRIPING		PROPOSED SIDEWALK DRAIN
	PROPOSED BOLLARD		EXISTING DROP INLET
	PROPOSED DOOR		EXISTING SEWER MANHOLE
	SCARP		PROPOSED SEWER MANHOLE
	SLOPE		EXISTING FIRE HYDRANT
	EXISTING GRADE		PROPOSED CLEAN OUT
	PROPOSED GRADE		PROPOSED FIRE HYDRANT
	SLOPE		EXISTING WATER VALVE
	EXISTING GRADE		PROPOSED WATER VALVE
	PROPOSED GRADE		PROPOSED BLUE REFLECTIVE PAVMT MARKING
	SLOPE		EXISTING MISCELLANEOUS MANHOLE
	EXISTING GRADE		EXISTING POLE
	PROPOSED GRADE		EXISTING STREET LIGHT
	SLOPE		EXISTING AREA LIGHT
	EXISTING GRADE		PROPOSED AREA LIGHT
	PROPOSED GRADE		

ABBREVIATIONS

⑨	AT	E/W	EAST/WEST or EACH WAY	PT	POINT OF TANGENCY
AB	AGGREGATE BASE	F-F	FACE OF CURB TO FACE OF CURB	PVC	POLYVINYL CHLORIDE
AC	ASPHALTIC CONCRETE	FG	FINISHED GROUND	PVI	POINT OF VERTICAL INFLECTION
ADA	AMERICANS WITH DISABILITIES ACT	FF	FINISHED FLOOR	R	RADIUS
AVE	AVENUE	FH	FIRE HYDRANT	RCB	REINFORCED CONCRETE BOX
BC	BACK OF CURB	FS	FINISHED SURFACE	RCP	REINFORCED CONCRETE PIPE
BCR	BEGIN CURB RETURN	FL	FLOWLINE	RT	RIGHT
BLVD	BOULEVARD	FT	FOOT or FEET	R/W	RIGHT OF WAY
BM	BENCHMARK	GB	GRADE BREAK	S	SOUTH
BVC	BEGIN VERTICAL CURVE	H	HEIGHT	SD	STORM DRAIN
BW	BOTTOM OF WALL	HDPE	HIGH-DENSITY POLYETHYLENE	SF	SQUARE FOOT or FEET
B/S	BACKSIDE	HP	HIGH POINT	SS	SANITARY SEWER
CALC	CALCULATED	INT	INTERSECTION	SSMH	SANITARY SEWER MANHOLE
CC	CLARK COUNTY	INV	INVERT	ST	STREET
CCAUUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING	L	LENGTH	STL	STEEL
CCFD	CLARK COUNTY FIRE DEPARTMENT	LA	LANDSCAPE ARCHITECT	STD	STANDARD
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	LF	LINEAR FEET	SY	SQUARE YARDS
		L/S	LANDSCAPE	TC	TOP OF CURB
		LT	LEFT	TG	TOP OF GRATE
		LVVWD	LAS VEGAS VALLEY WATER DISTRICT	TYP	TYPICAL
CJ	CONTRACTION JOINT	MAX	MAXIMUM	TW	TOP OF WALL
CL	CENTERLINE	ME	MATCH EXISTING	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
CLV	CITY OF LAS VEGAS	MEP	MECHANICAL, ELECTRICAL AND PLUMBING		
CO	CLEAN OUT	MH	MANHOLE	VERT	VERTICAL
CONN	CONNECTION	MIN	MINIMUM	W	WEST OR WATER
CTV	CABLE TELEVISION	N	NORTH	WL	WATERLINE
CY	CUBIC YARD	NTS	NOT TO SCALE	WTR	WATER
Δ	DELTA (DIFFERENCE) / ANGLE	N/S	NORTH/SOUTH	XFF	EXISTING FINISHED FLOOR ELEVATION
D	DEPTH	OC	ON CENTER	±	PLUS or MINUS
DG	DECOMPOSED GRANITE	P.A.E.	PUBLIC ACCESS EASEMENT		
DI	DUCTILE IRON	PC	POINT OF CURVATURE		
E	EAST	PCC	POINT OF COMPOUND CURVATURE		
EA	EACH	PR	PROPOSED		
ECR	END CURB RETURN	PRC	POINT OF REVERSE CURVATURE		
EJ	EXPANSION JOINT				
ELEV	ELEVATION				
ELEC	ELECTRICAL				
EP	EDGE OF PAVEMENT				
EVC	END VERTICAL CURVE				
EX	EXISTING				

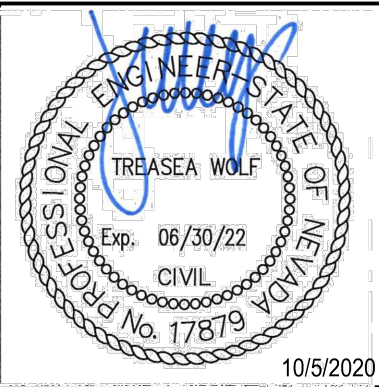


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6410 CENTENNIAL CENTER BLVD.
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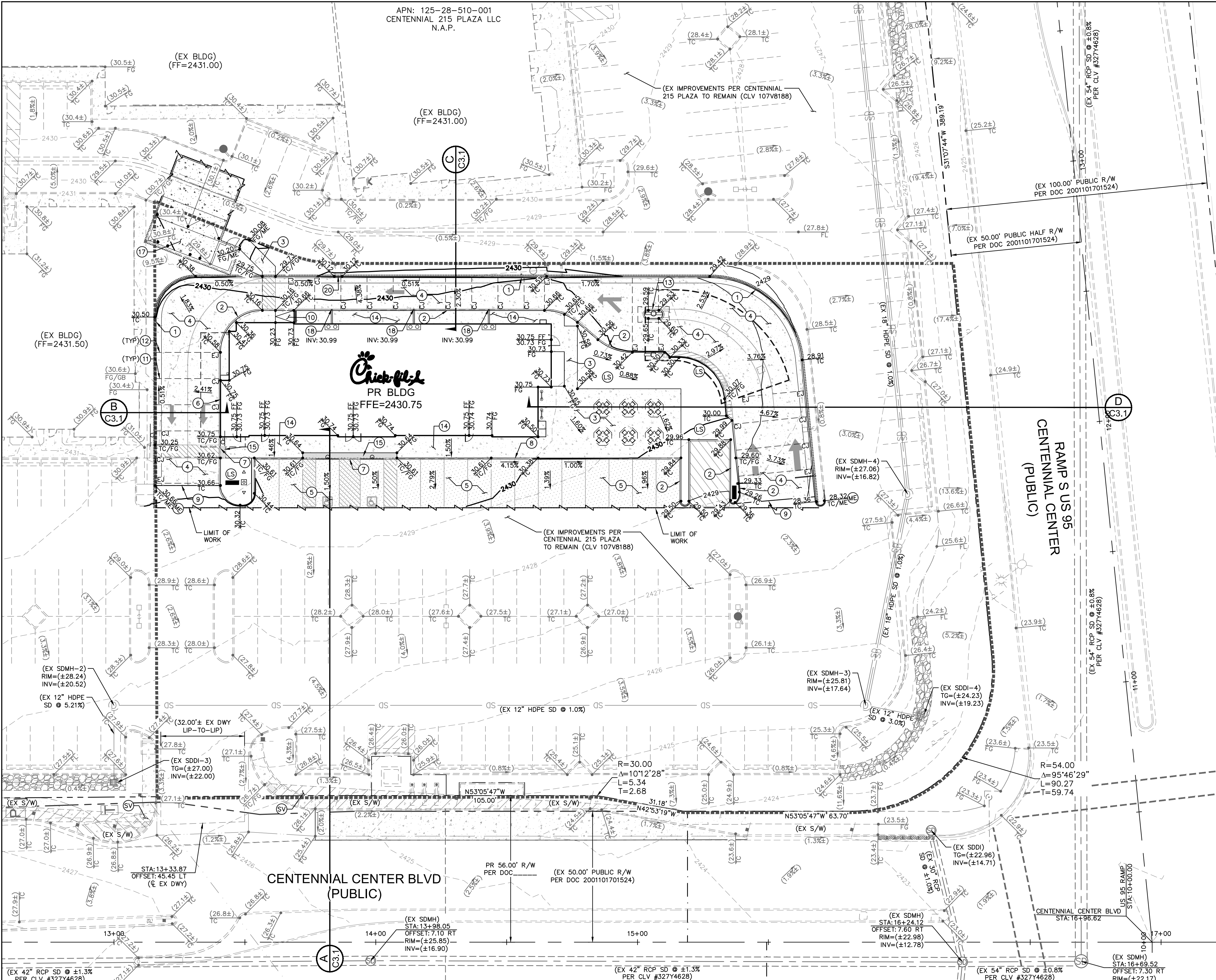
FSR# 4548

REVISION SCHEDULE	
NO.	DATE DESCRIPTION

AGENCY #	TBD
PROJECT #	092908028
PRINTED FOR	AGENCY SUBMITTAL
DATE	10/5/2020
DESIGN BY	JZ
DRAWN BY	CT
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SHEET QUANTITIES	
SHEET NUMBER	

C1.2

K:\A\1\20200803\Chick-fil-A Centennial 95 Plaza (44)C302\Drawings\20200803\CD.dwg Sheet No. C3.0 Saved by cary jester: Thursday, November 08, 2023 11:58 AM Printed by: cary jester: Thursday, November 11, 2023 02:58 AM



GRAPHIC SCALE IN FEET
0 10 20 40
SCALE: 1" = 20'

LEGEND

- RIGHT-OF-WAY
- PROPERTY LINE
- LEASE LINE
- LIMITS OF WORK
- GRADE BREAK
- PR SAWCUT LINE
- PR RETAINING WALL
- PR SWALE/FLOW LINE
- PR TYPE 'L' CURB & GUTTER
- PR TYPE 'A' CURB
- EX STREETLIGHT
- EX SIGHT VISIBILITY ZONE (SVZ)
- PR PAVEMENT
- PR CONCRETE

CONSTRUCTION NOTES

- CONSTRUCT "L" TYPE CURB & GUTTER PER DETAIL 17 OPTION B, SHEET C4.2
- CONSTRUCT "A" TYPE CURB PER DETAIL 7, SHEET C4.1
- CONSTRUCT SIDEWALK PER DETAIL 12, SHEET C4.1
- CONSTRUCT CONCRETE PAVING DRIVE-THRU LANE PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 20, SHEET C4.2
- CONSTRUCT STANDARD AC PAVEMENT PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 16, SHEET C4.2
- DRIVE-THRU ISOMETRIC PLAN VIEW PER DETAILS 13 & 14, SHEET C4.2
- CONSTRUCT 0" CURB
- CONSTRUCT 0" TO 6" TRANSITION PER DETAIL 15, SHEET C4.2
- CONSTRUCT CONCRETE/AC EDGE PER DETAIL 19, SHEET C4.2
- CONSTRUCT ONSITE ADA RAMP PER DETAIL 10, SHEET C4.1
- CONSTRUCT CONTRACTION JOINT (CJ) PER DETAIL 18, SHEET C4.2
- CONSTRUCT EXPANSION JOINT (EJ) PER DETAIL 27, SHEET C4.3
- DRIVE-THRU ISLAND CURB PER DETAIL 23, SHEET C4.3
- CONSTRUCT SIDEWALK WITH 6" CURB SECTION PER DETAIL 13, SHEET C4.1
- CONSTRUCT TRUNCATED DOMES PER DETAIL 11, SHEET C4.1
- CONSTRUCT REFUSE ENCLOSURE PER DETAIL 26, SHEET C4.3
- INSTALL CURB-0-LET DRAINS AND OUTLET AT CURB FACE PER DETAIL 24, SHEET C4.3
- CONSTRUCT 2.0' CURB OPENING PER DETAIL 22, SHEET C4.2
- PROPOSED LANDSCAPING PER SEPARATE LANDSCAPE PLANS
- MATCH EXISTING
- EXISTING SIGHT VISIBILITY ZONE

LEGEND & ABBREVIATIONS

SEE SHEET C1.2 FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION

NOTES:

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSOBELED DURING CONSTRUCTION.

STORMWATER MANAGEMENT NOTES

- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY BE DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS BUILDING ADMINISTRATIVE CODE 24-40 AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.5.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

ENGINEER'S NOTES:

- ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY TERRACON, DATED MARCH 28, 2019, NO. 64185122.
- ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" LATEST EDITION.
- FINAL ASPHALTIC CONCRETE (AC PAVEMENT SURFACES SHALL BE FLUSH WITH THE LIP OF GUTTER (INCLUDING OPEN GRADE).
- CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
- THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE GOVERNMENT AGENCIES.
- ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY.
- MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
- THIS PROJECT IS PART OF A PROPOSED COMMERCIAL SUBDIVISION.
- ALL ON-SITE STORM DRAINS AND THE ASSOCIATED STORM WATER FACILITIES ARE PRIVATELY OWNED AND PRIVATELY MAINTAINED.

GRADING NOTE:

PER THE SOILS REPORT, POSITIVE DRAINAGE OF 5% MINIMUM IN LANDSCAPE AREAS AND 2% MINIMUM ELSEWHERE SHALL BE MAINTAINED FOR AREAS ADJACENT TO STRUCTURES. THE 2% SHOULD BE MAINTAINED A DISTANCE OF 10' IN AREAS WHERE ADA IS ADJACENT TO THE BUILDING, SLOPES LESS THAN 2% ARE ACCEPTABLE.

SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED LESS THAN 24 INCHES IN HEIGHT MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL, OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

ELEVATION NOTE:

ADD 2400 FEET TO ALL SPOT ELEVATIONS, EXCEPT FINISHED FLOOR ELEVATIONS AND CONTOURS.

BENCHMARK

THE ELEVATION DATA SHOWN HEREON IS U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88) CITY OF LAS VEGAS VERTICAL CONTROL NETWORK, RE-OBSERVED 2005-2007, BASED ON:

MONUMENT ID 57V9028N66

SECTION 28, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M.

DESCRIPTION: RIVET & PLATE IN TOP OF CURB AT NW CORNER OF CENTENNIAL CENTER PARKWAY & US 95 SOUTHBOUND OFF RAMP.

ELEVATION: 738.593 METERS
2423.20 U.S. SURVEY FEET

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THE SURVEY SHOWN HEREON IS SOUTH 53°05'47" EAST AS DEFINED BY THE MONUMENTS SHOWN HEREON, BEING THE CONTROL LINE OF CENTENNIAL CENTER BOULEVARD AS DERIVED BY BOOK 95 OF PLATS, PAGE 45, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) PANEL NUMBER 32003C1745E, REVISED SEPTEMBER 27, 2002 INDICATE THAT THE PROJECT SITE IS LOCATED IN ZONE 'X'. ZONE 'X' IS DEFINED BY FEMA AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, DS-5100

TREASEA WOLF, PE No. 17879 DATE:

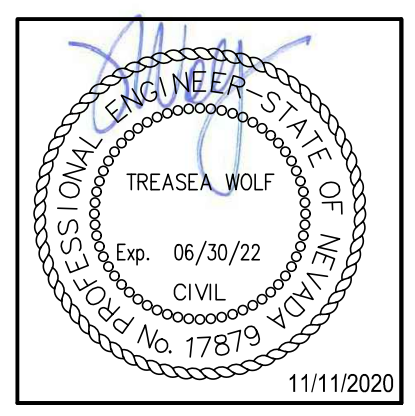
CLV #:

C3.0



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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PHONE: 702-882-3600
WWW.KIMLEY-HORN.COM



CHICK-FIL-A
CENTENNIAL 95 PLAZA
6410 CENTENNIAL CENTER BLVD.
LAS VEGAS, NV 89149

FSR# 4548

REVISION SCHEDULE	
NO.	DATE DESCRIPTION

AGENCY #	TBD
PROJECT #	092908026
PRINTED FOR	AGENCY SUBMITTAL
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SHEET GRADING PLAN	
SHEET NUMBER	

NTS

CONSTRUCTION NOTES

- ① CONSTRUCT "L" TYPE CURB & GUTTER PER DETAIL 17 OPTION B, SHEET C4.2
- ② CONSTRUCT "A" TYPE CURB PER DETAIL 7, SHEET C4.1
- ③ CONSTRUCT SIDEWALK PER DETAIL 12, SHEET C4.1
- ④ CONSTRUCT CONCRETE PAVING DRIVE—THRU LANE PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 20, SHEET C4.2
- ⑤ CONSTRUCT STANDARD AC PAVEMENT PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 16, SHEET C4.2
- ⑦ CONSTRUCT 0' CURB
- ⑧ CONSTRUCT TRUNCATED DOMES PER DETAIL 11, SHEET C4.1
- ⑬ PROPOSED LANDSCAPING PER SEPARATE LANDSCAPE PLANS

ME MATCH EXISTING

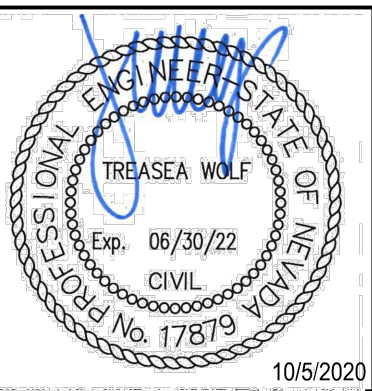
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NTS



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CENTENNIAL 95 PLAZA
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FSR# 4548

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

AGENCY #	TBD
PROJECT #	092908028
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DATE	10/5/2020
DESIGN BY	JZ
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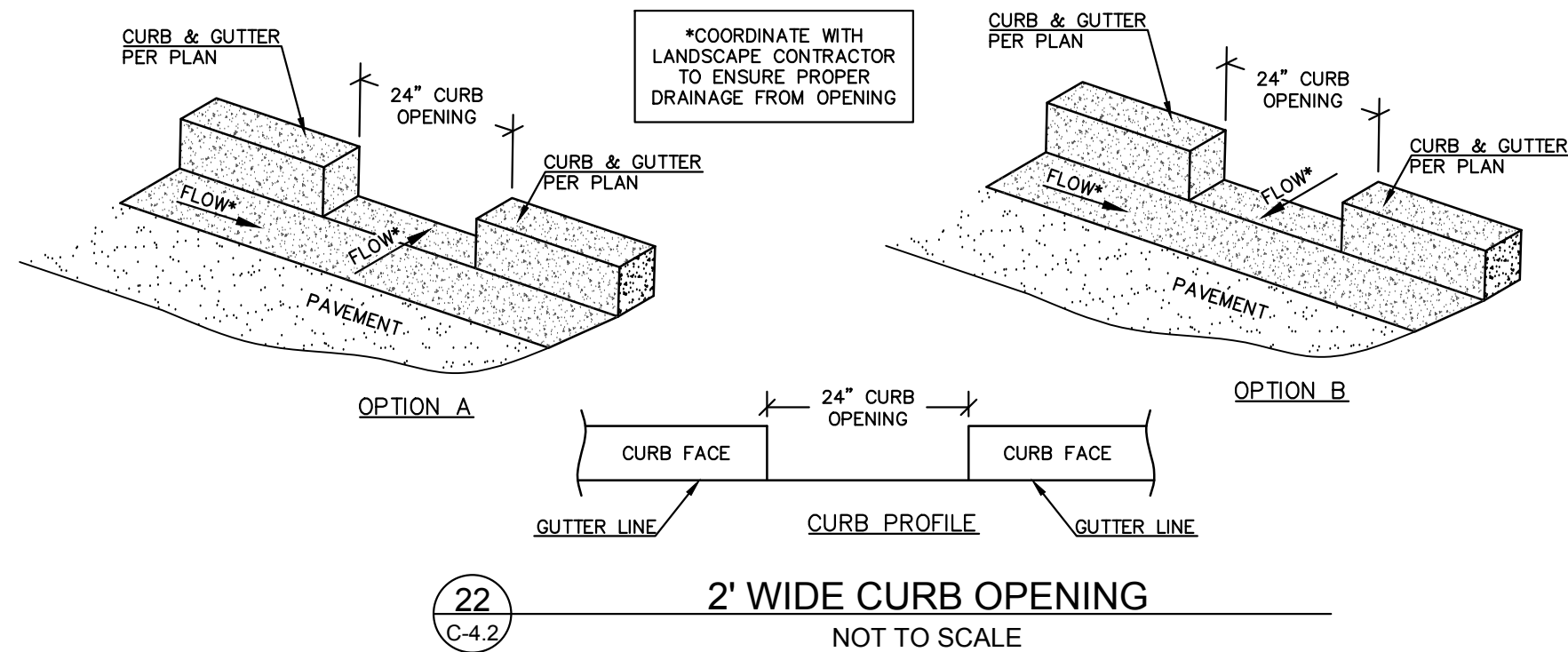
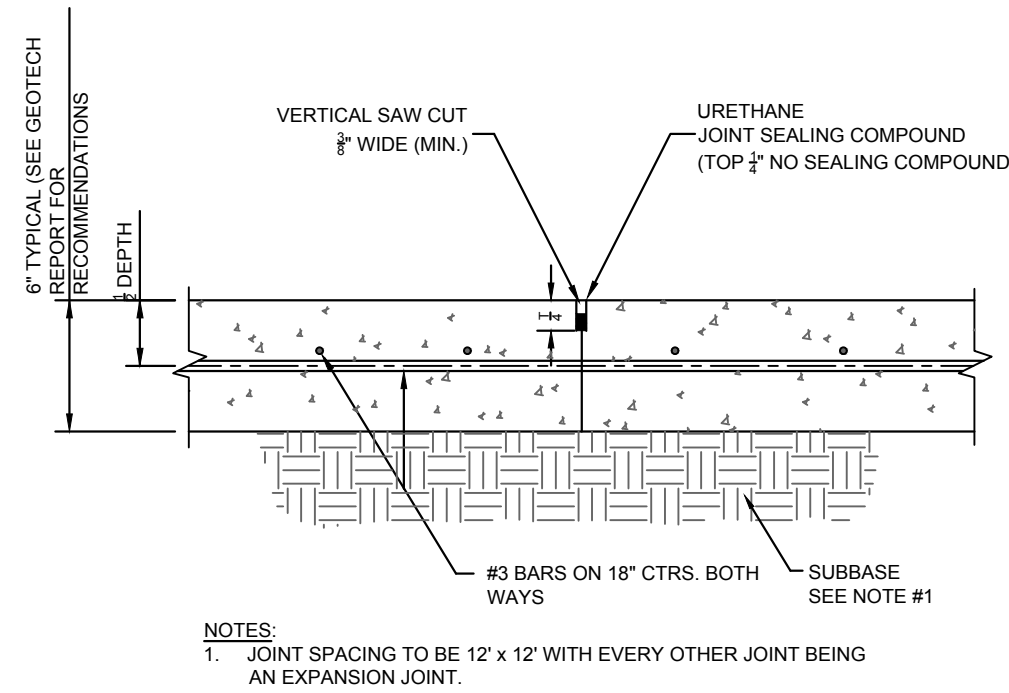
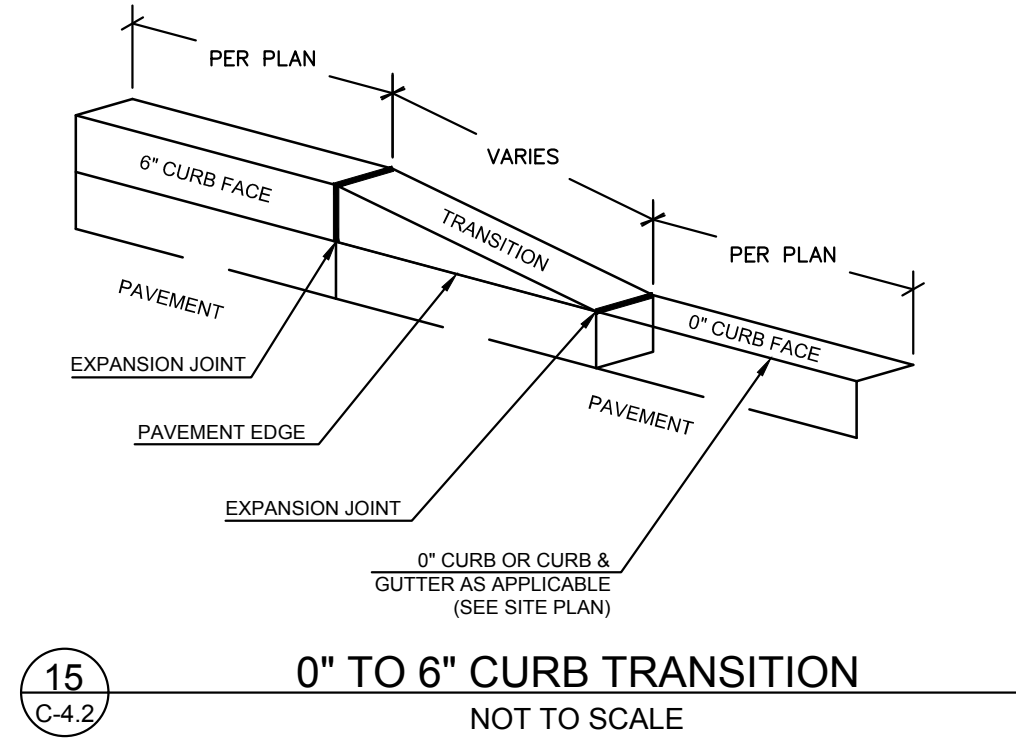
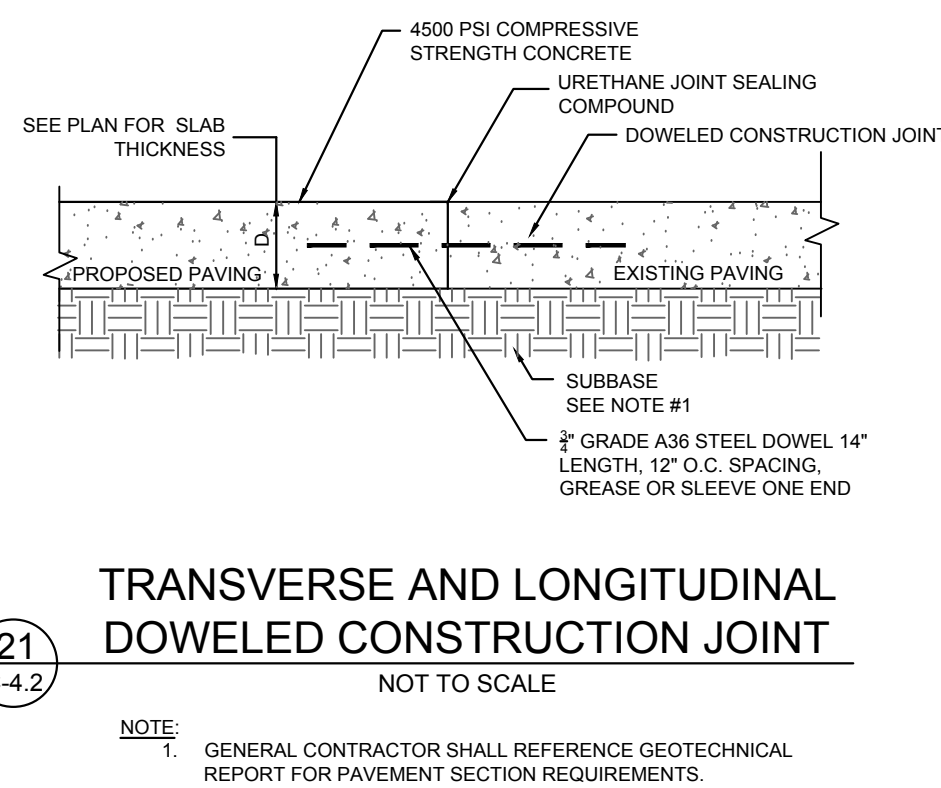
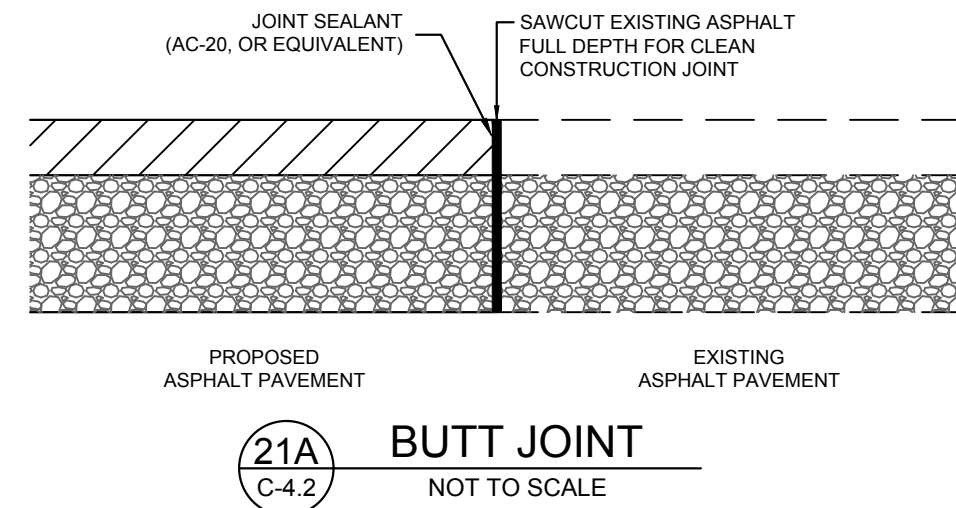
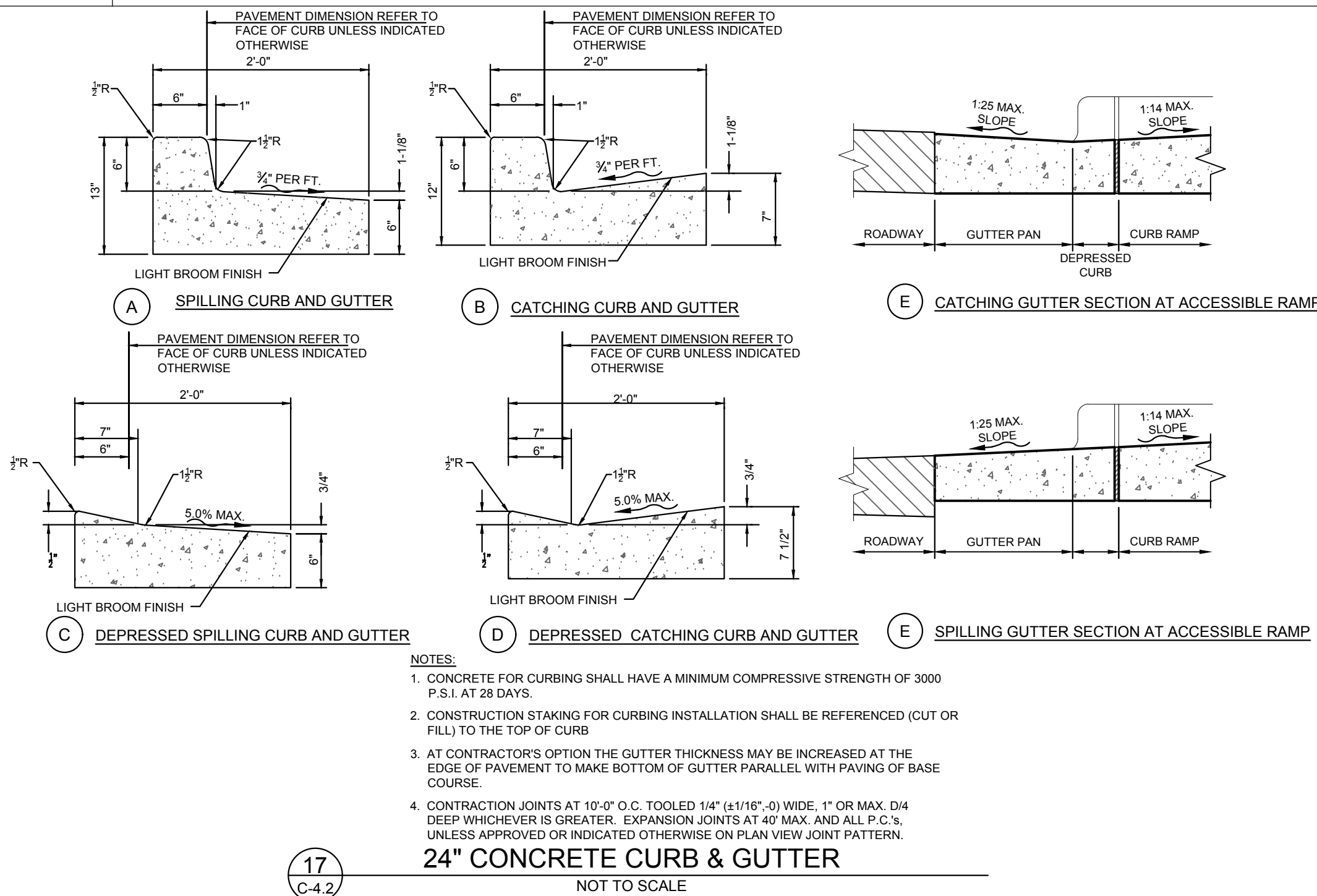
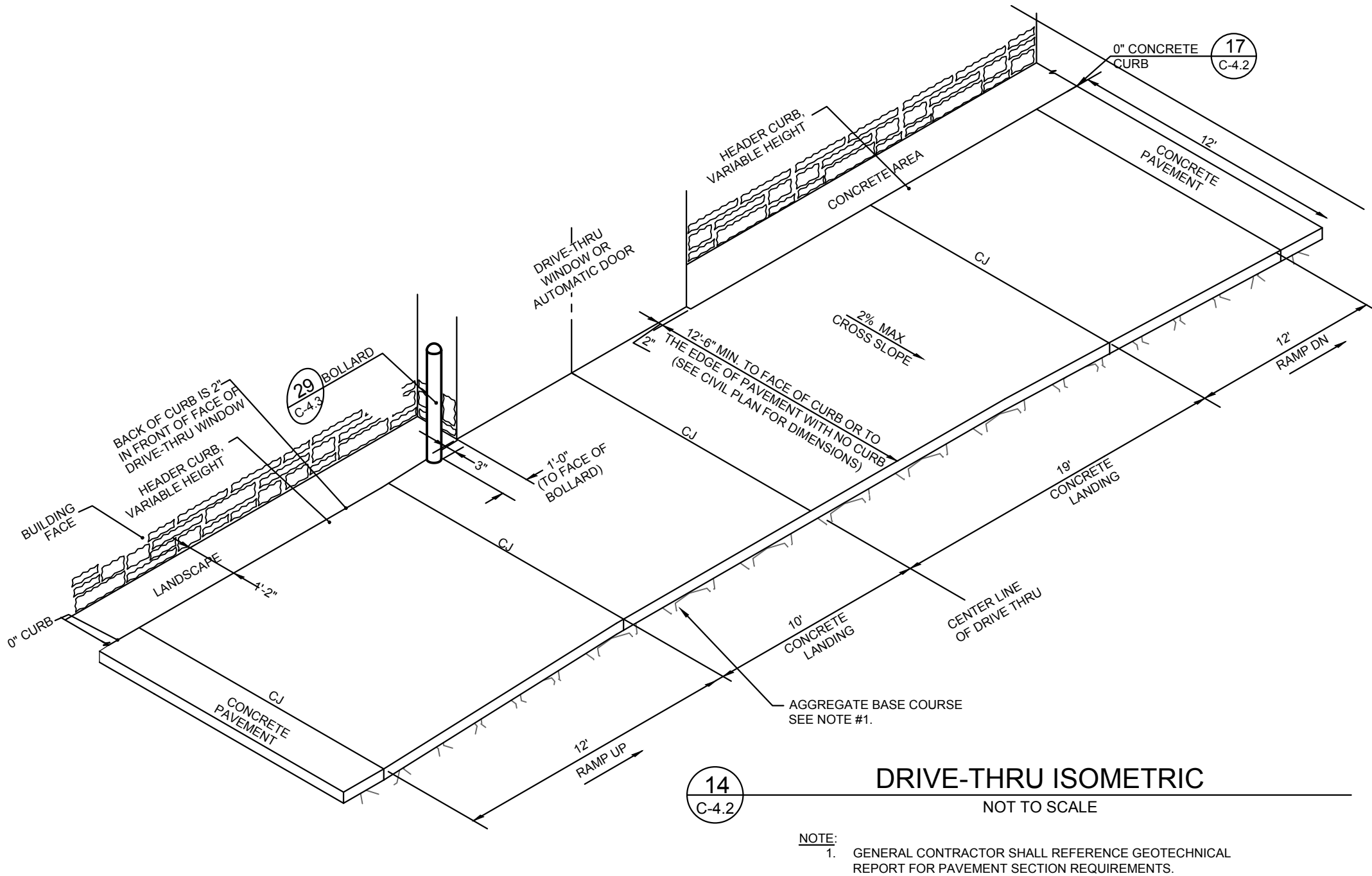
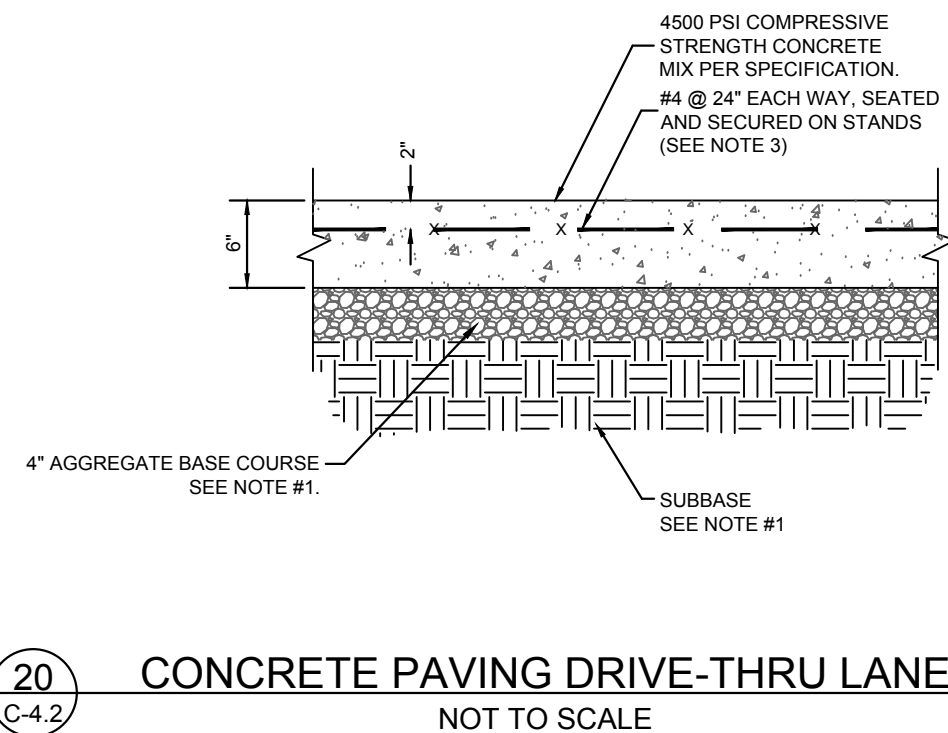
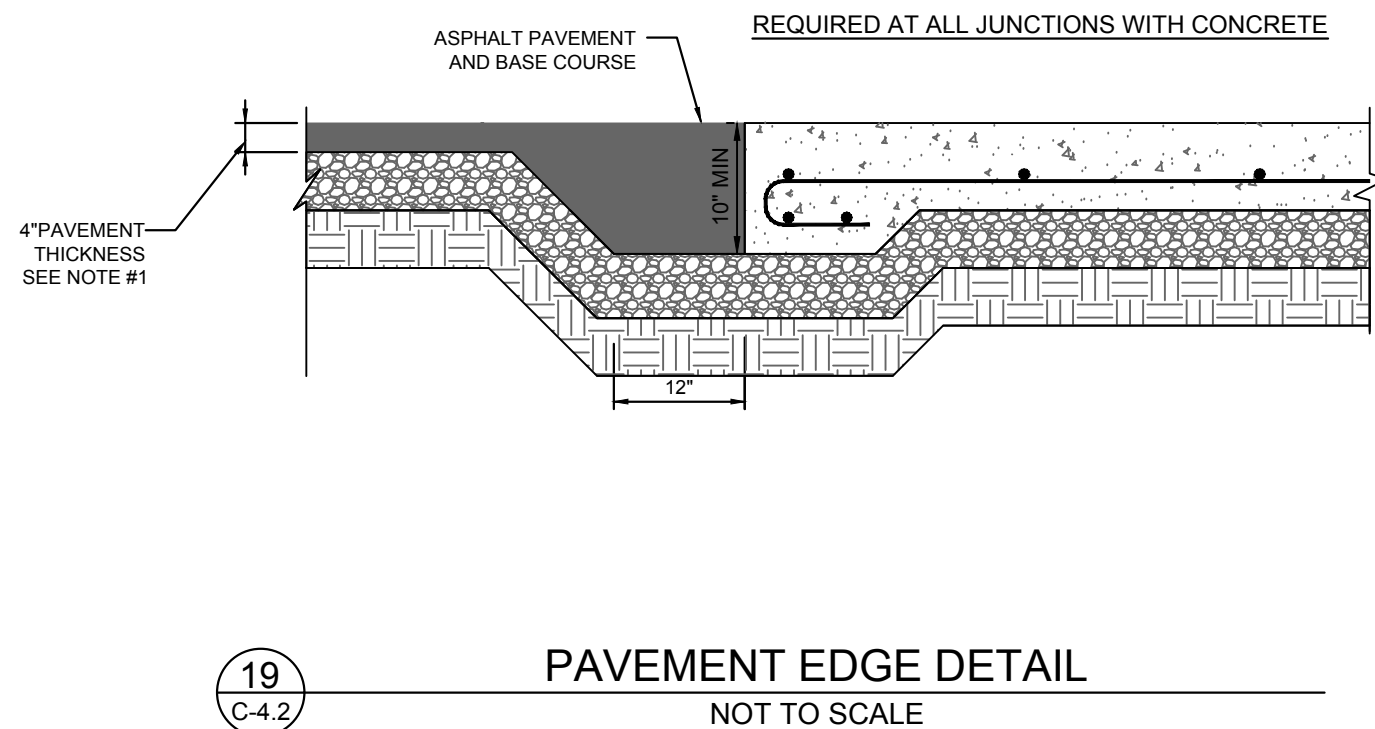
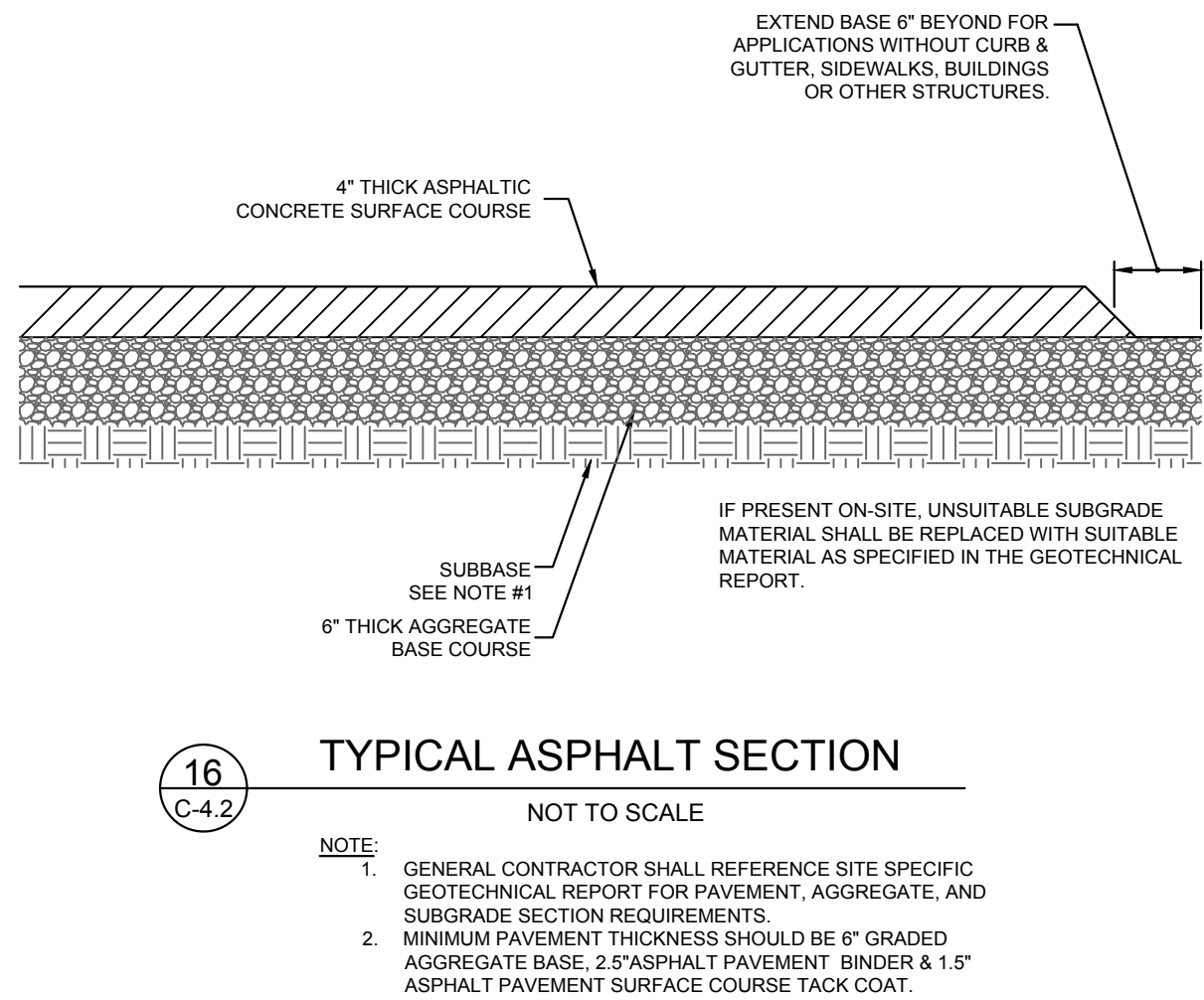
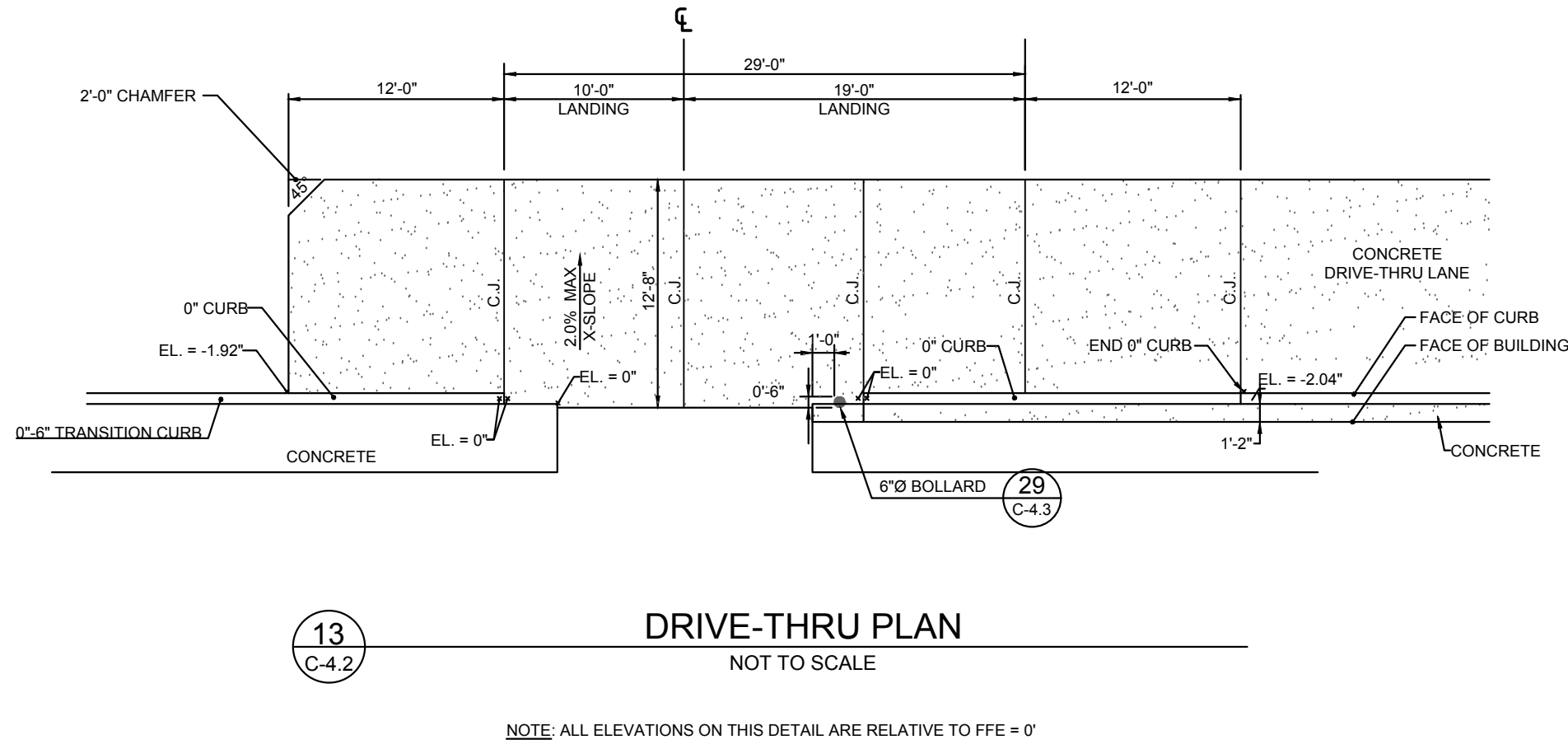
SHEET
TYPICAL
SECTIONS

SHEET NUMBER

C3.1

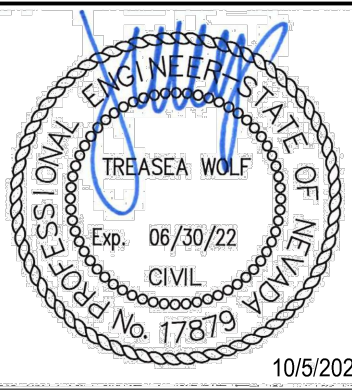
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LAS VEGAS, NV 89149

FSR# 4548

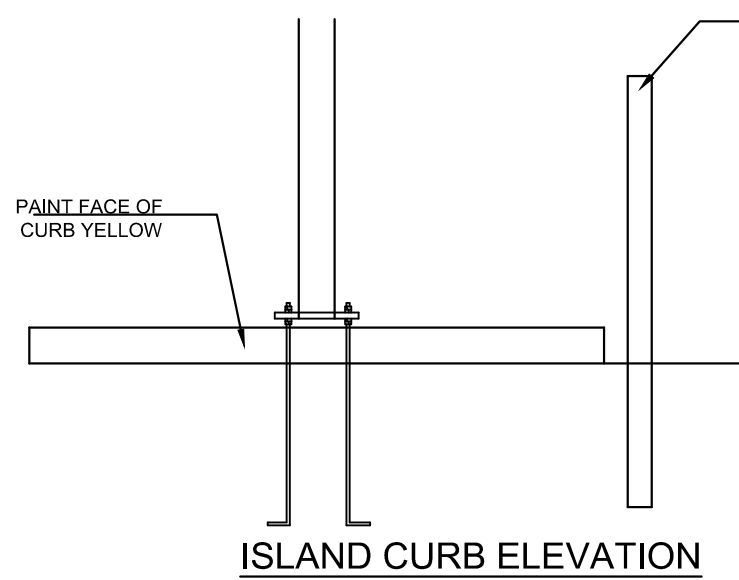
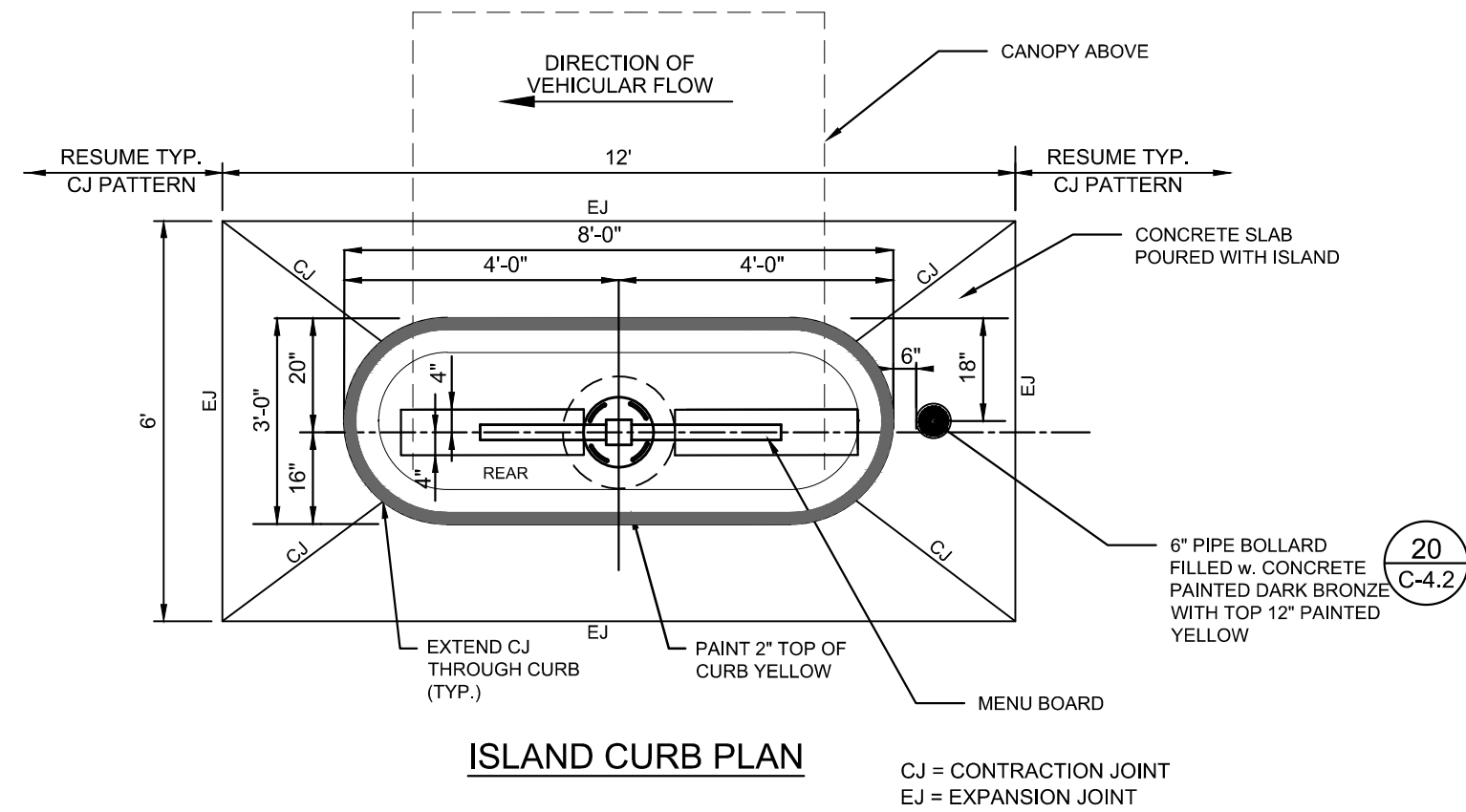
REVISION SCHEDULE
NO. DATE DESCRIPTION

AGENCY # TBD
PROJECT # 092908028
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DATE 10/5/2020
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SHEET TYPICAL DETAILS 2
SHEET NUMBER

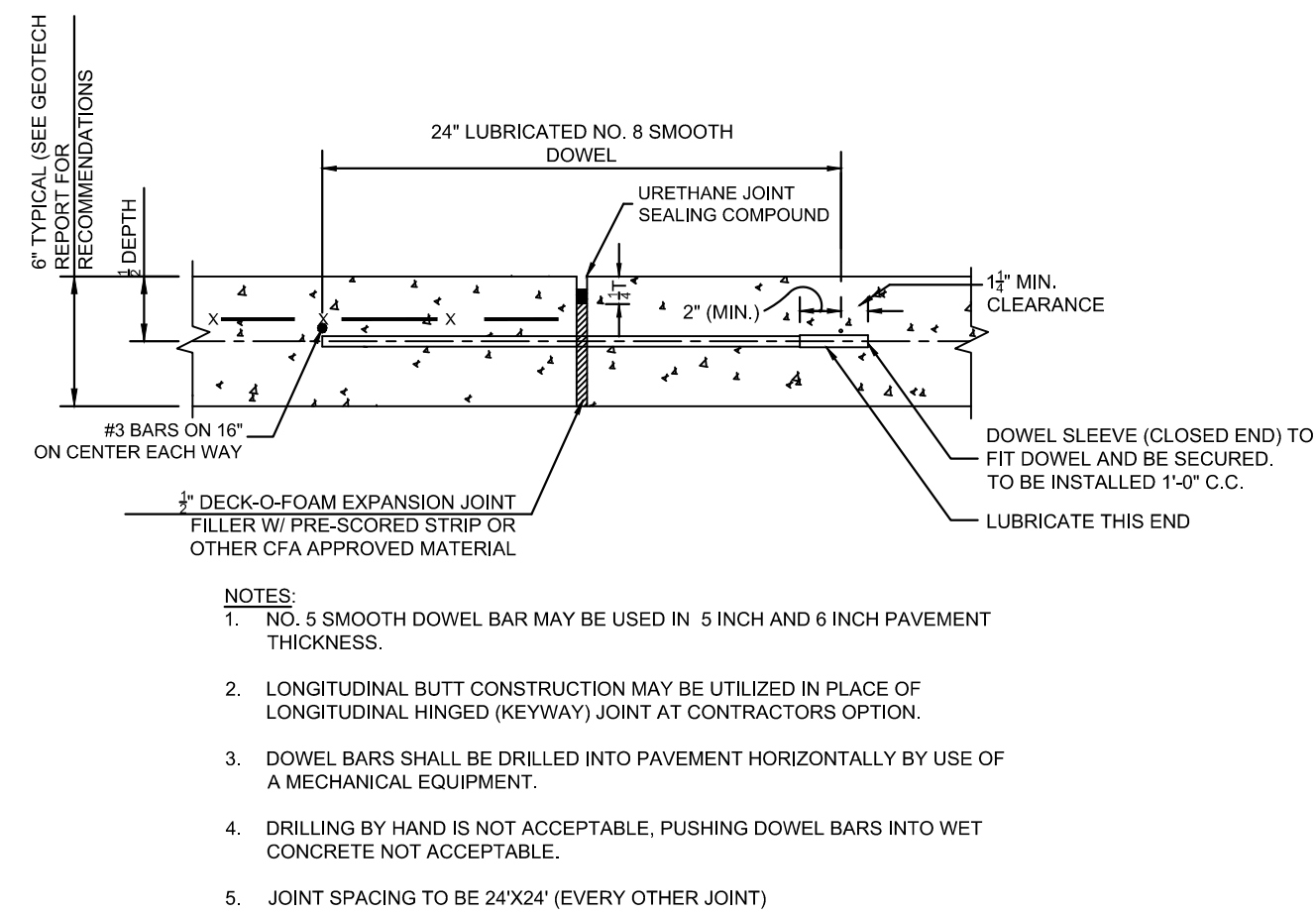
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C4.2

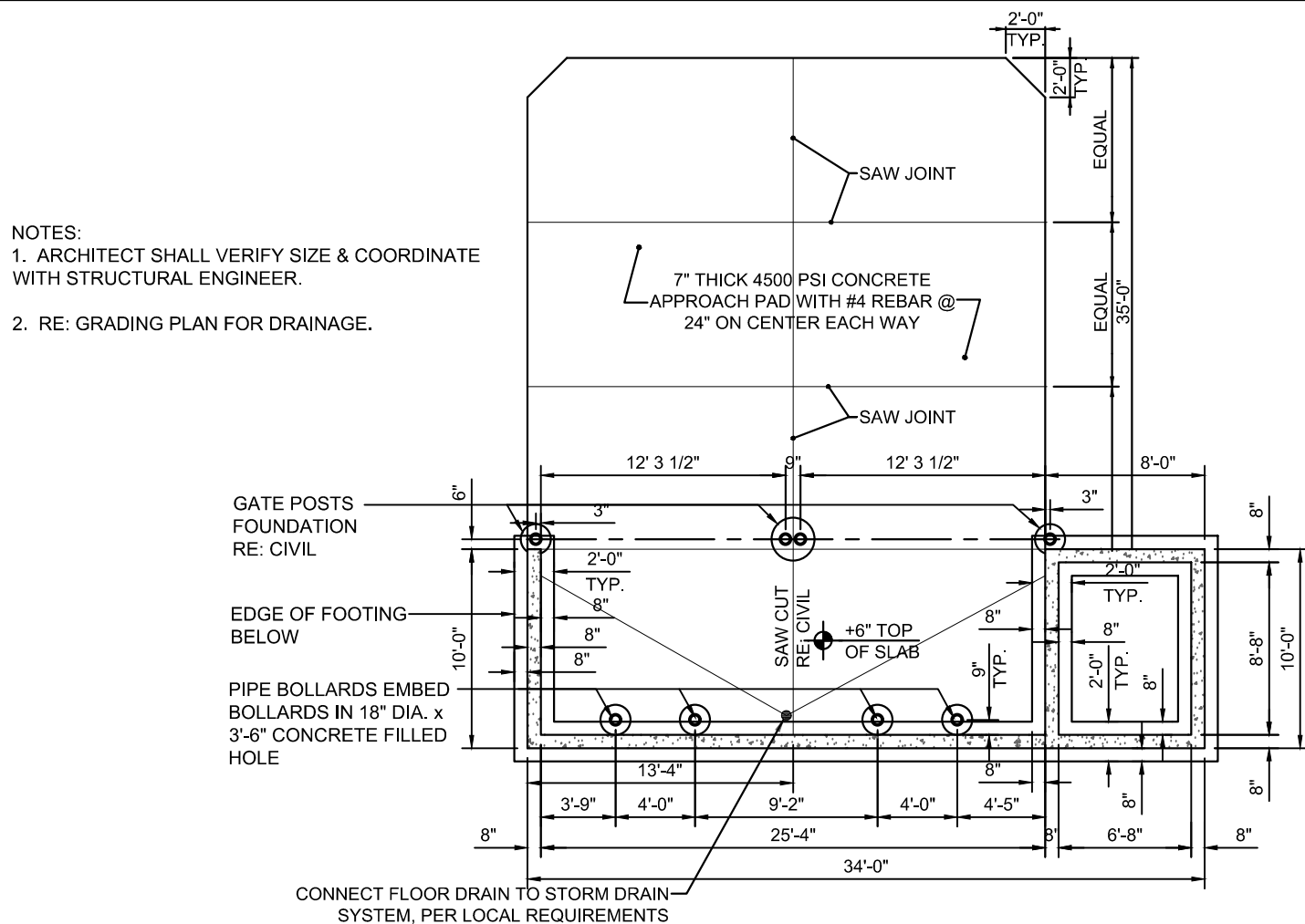
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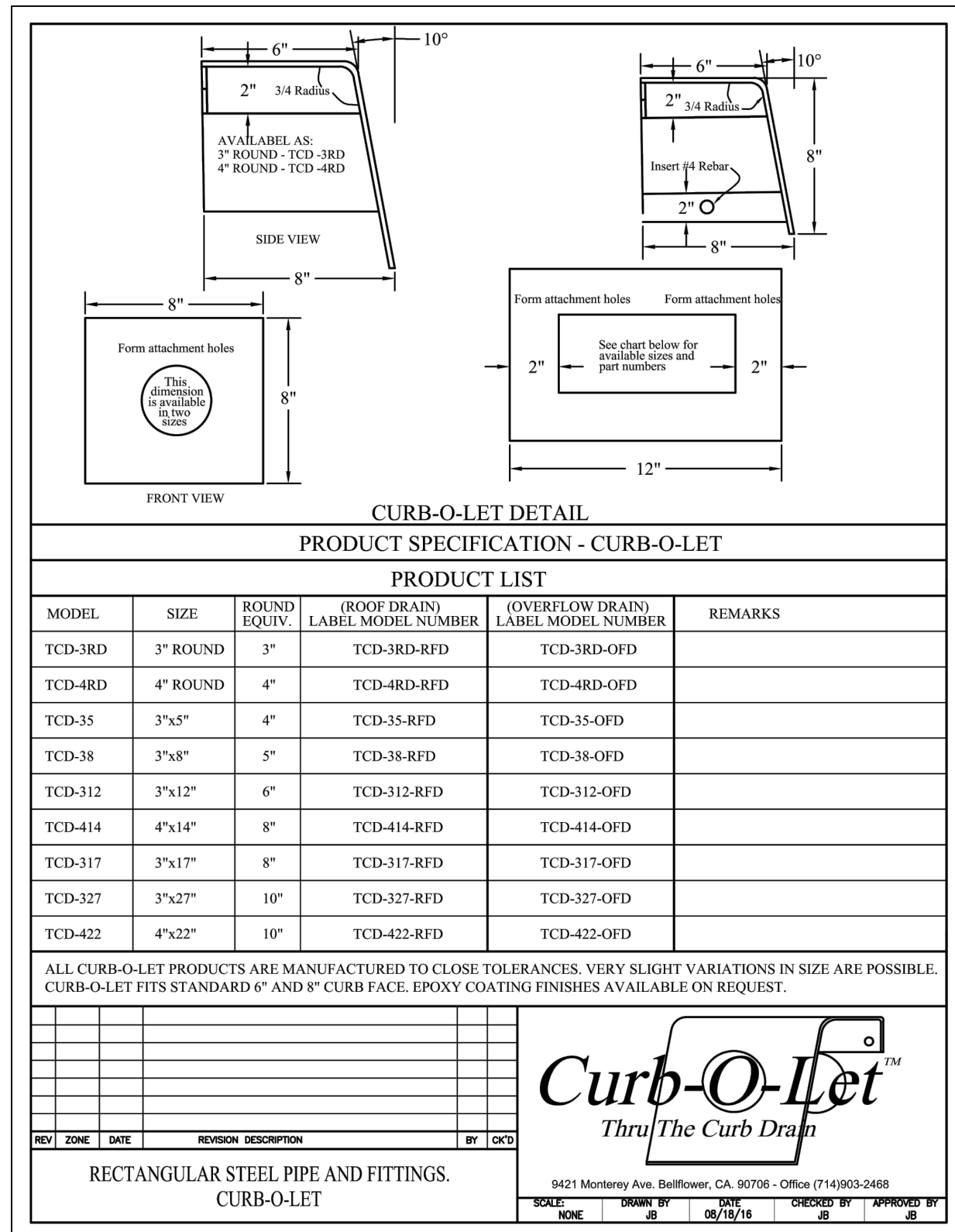
23 C-4.3 DRIVE THRU ORDER POINT ISLAND CURB
NOT TO SCALE



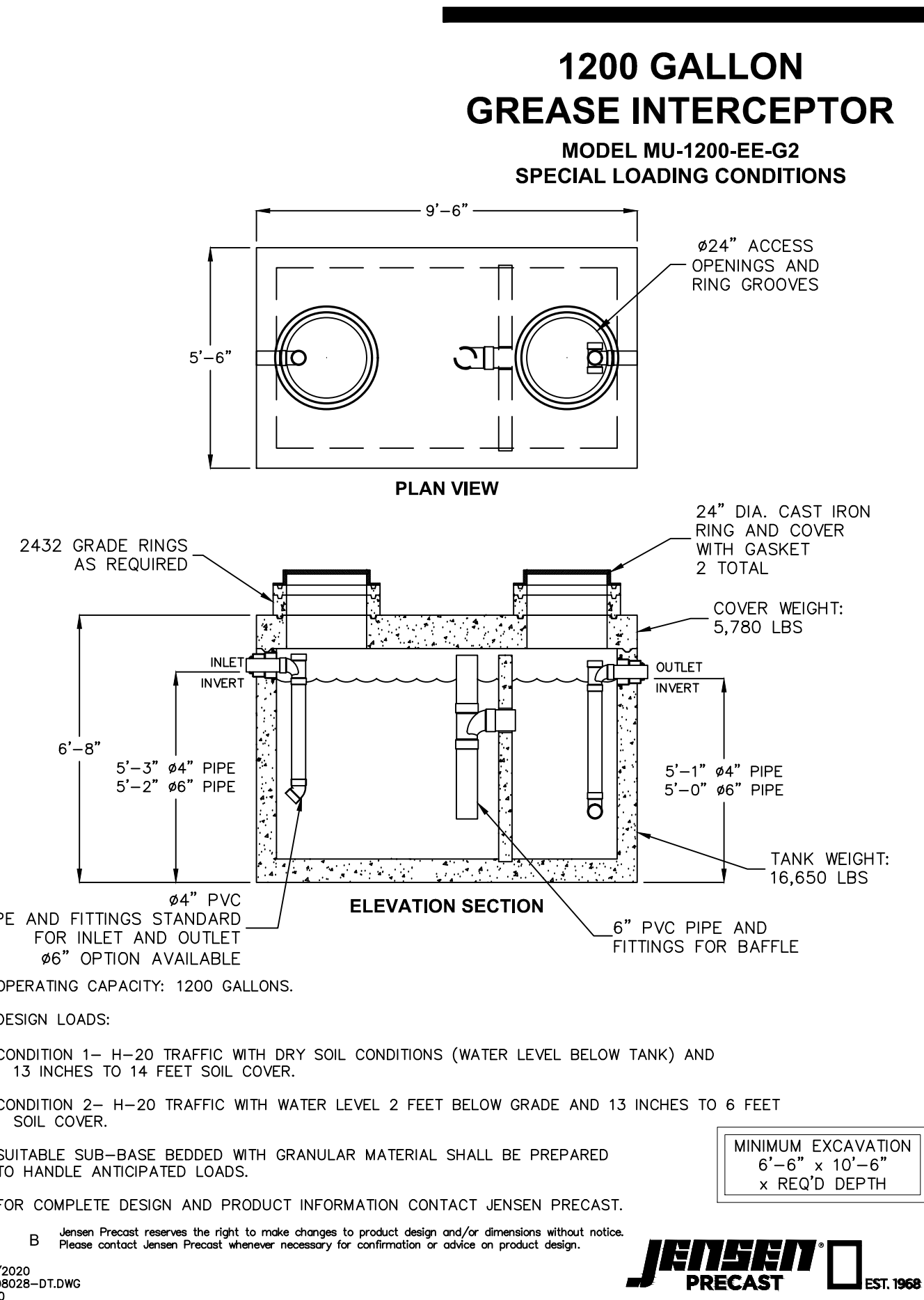
27 C-4.3 EXPANSION JOINT
NOT TO SCALE



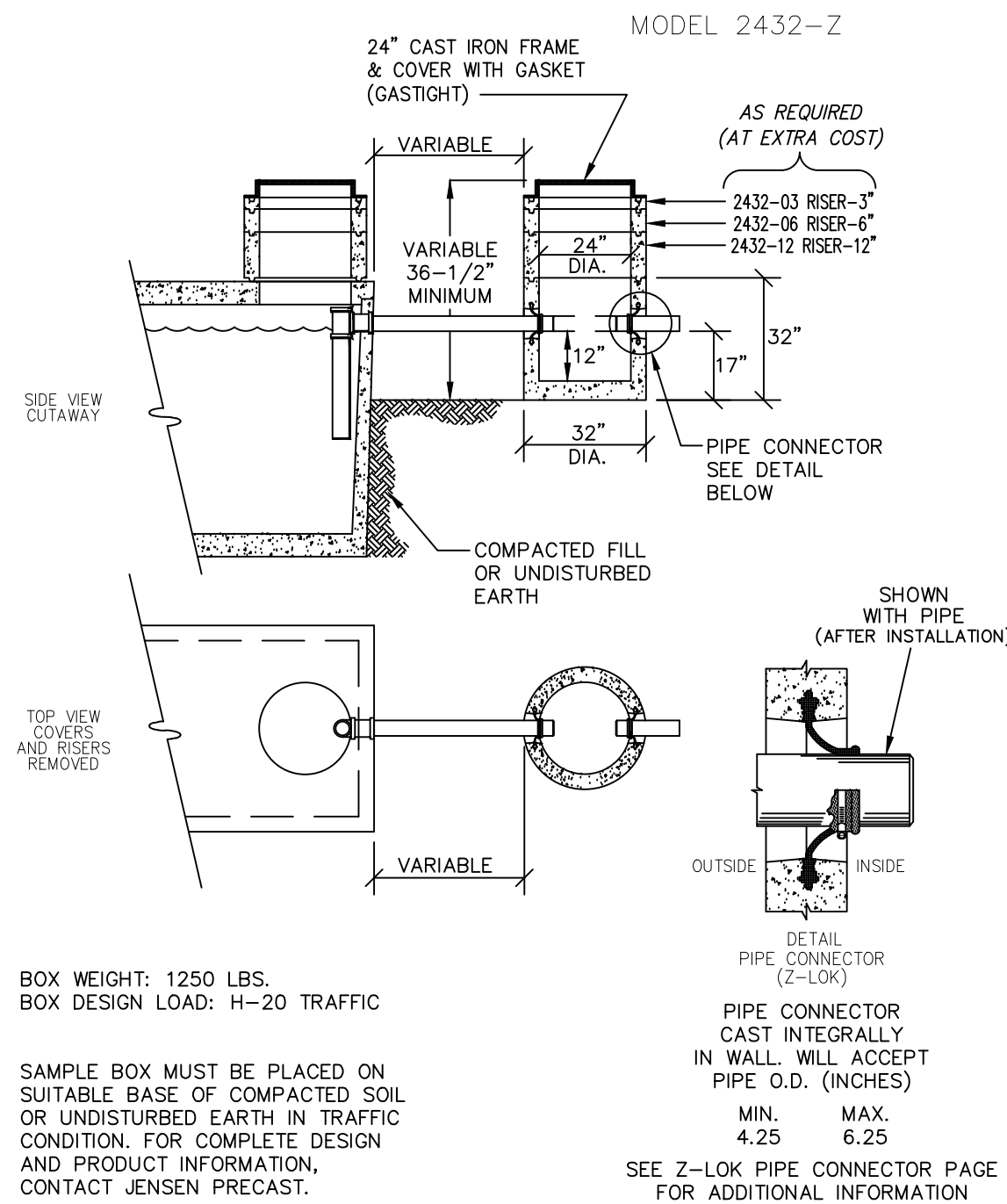
26 C-4.3 REFUSE ENCLOSURE
NOT TO SCALE



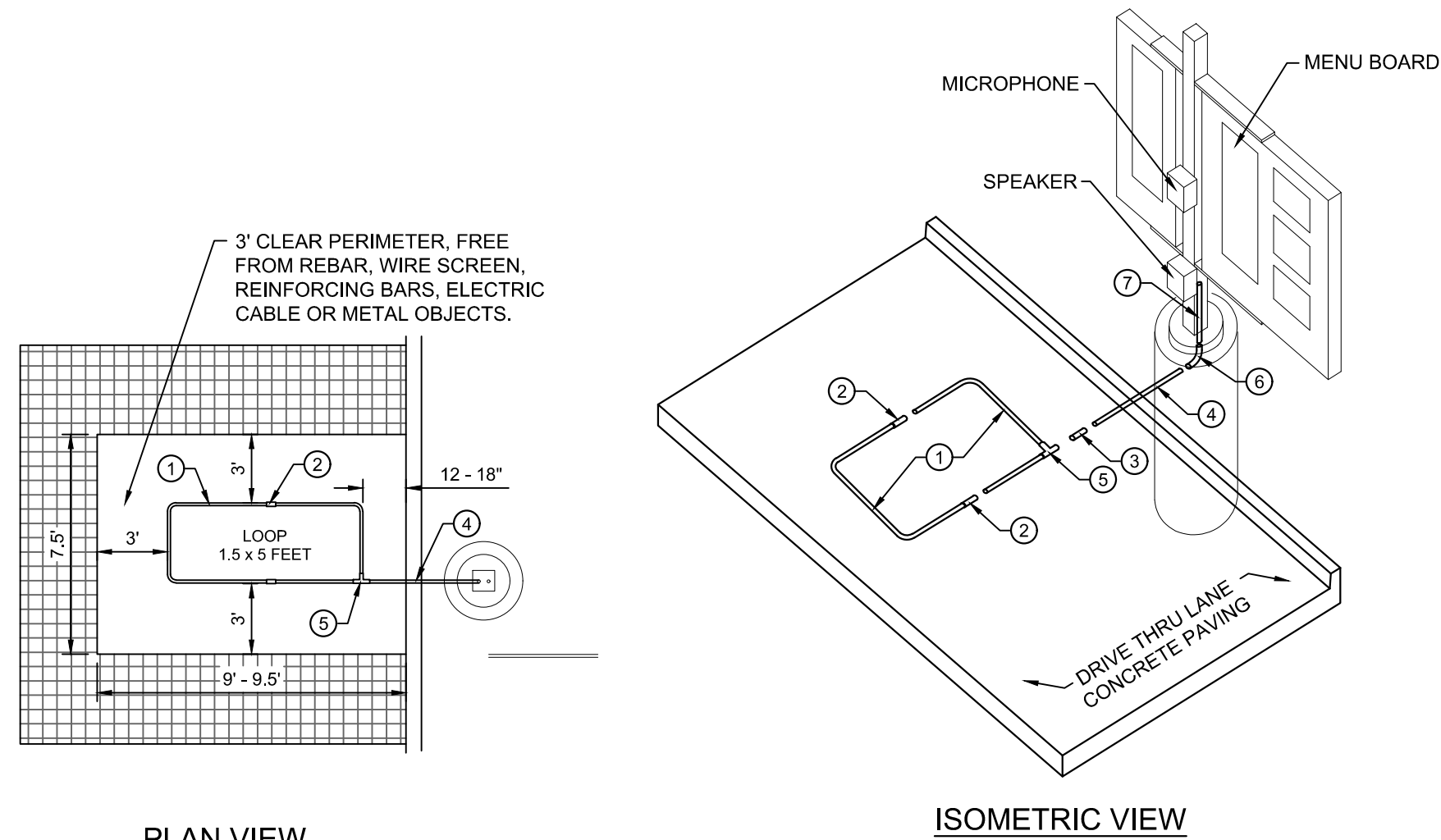
24 C-4.3 CURB-O-LET
NOT TO SCALE



27 C-4.3 1500 GALLON GREASE INTERCEPTOR
NOT TO SCALE

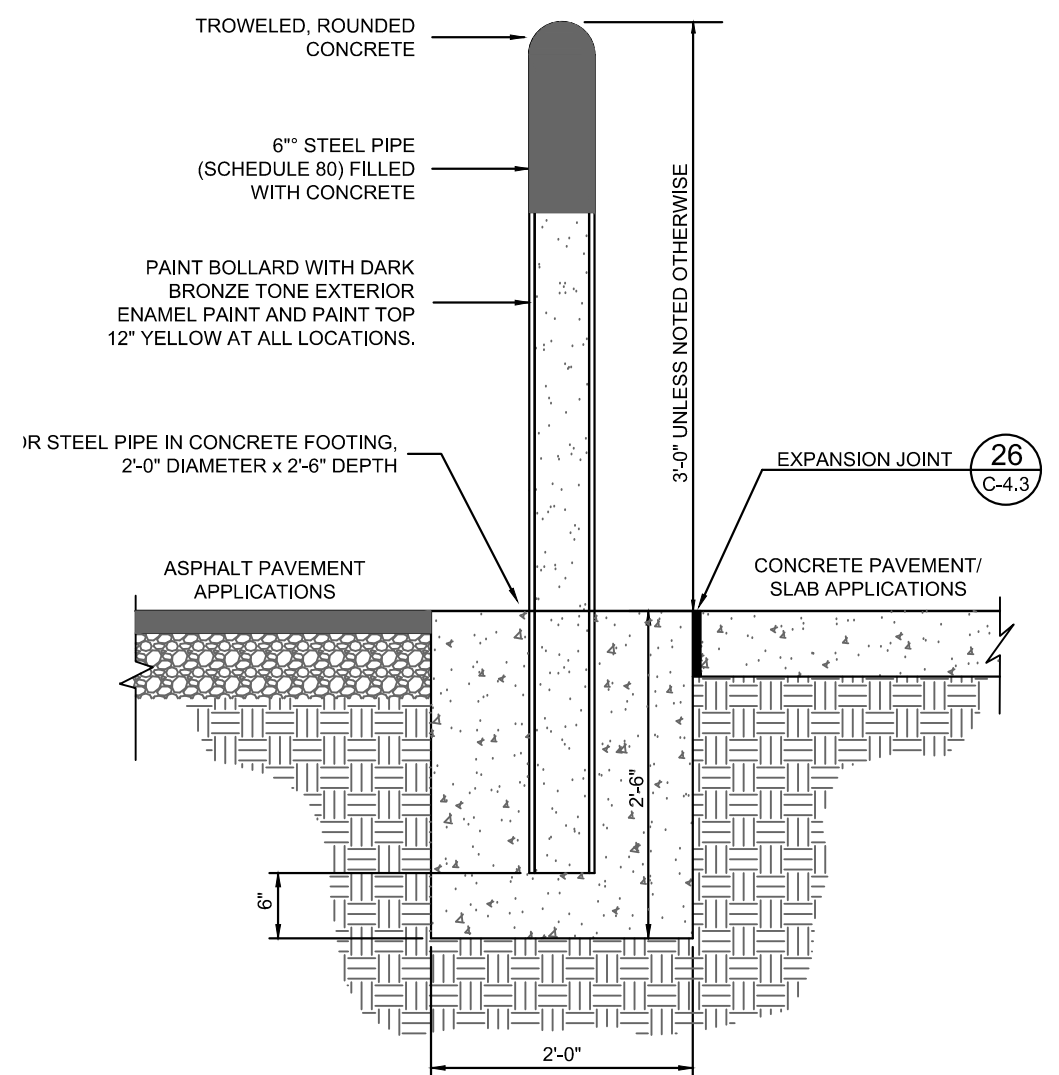


28 C-4.3 JENSEN SAMPLE BOX
NOT TO SCALE



25 C-4.3 MENU BOARD LOOP DETECTION SYSTEM
NOT TO SCALE

- NOTES:
1. LOOP DETECTOR IS MODEL NO. VDL100 VEHICLE DETECTION LOOP MANUFACTURED BY MH ELECTRONICS, INC.
 2. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.



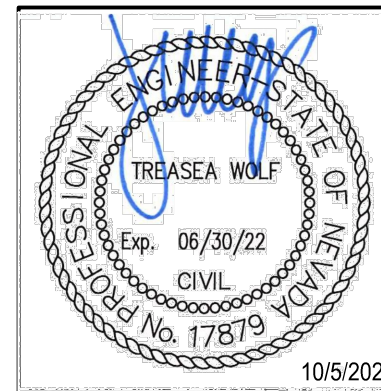
29 C-4.2 CONCRETE BOLLARD
NOT TO SCALE

NOTE: BOLLARD HEIGHT SHALL BE 5'-0" AT DRIVE-THRU WINDOW AND INSIDE DUMPSTER ENCLOSURE



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CENTENNIAL 95 PLAZA
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LAS VEGAS, NV 89149

FSR# 4548

REVISION SCHEDULE
NO. DATE DESCRIPTION

AGENCY # TBD
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SHEET
TYPICAL
DETAILS 3
SHEET NUMBER

C4.3

CLV #:

Appendix D – Data CD



**Update to the
Technical Drainage Study
for**

Centennial 215 Plaza

Date Prepared:
October 2020

Prepared for:
Chick-fil-A
5200 Buffington RD
Atlanta, GA 30349
303.519.4834

Prepared by:
Kimley-Horn and Associates, Inc.
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, NV 89119
702.862.3600

Kimley»Horn

HYDROLOGIC CRITERIA AND DRAINAGE MANUAL
DRAINAGE STUDY INFORMATION FORM

Name of Development: Chick-fil-A @ Centennial & US 95 Date: October 2020

Location of Development: a) Descriptive (Cross Streets) North/South: US 95 Ramp
East/West: Centennial Center Boulevard

b) Section: 28 Township: 19S Range: 60E

c) APN : 125-28-510-001

Name of Owner: Centennial 215 Plaza LLC/Chick-fil-A

Telephone No.: 702.253.5371 Fax No.: N/A E-Mail Address: N/A

Address: 8350 West Sahara #210; Las Vegas, NV 89117

Contact Person-Name: Michael Schwab, P.E. Telephone No.: 702.790.0206

* E-Mail Address: michael.schwab@kimley-horn.com Fax No.: _____

Firm: KIMLEY-HORN

Address: 6671 Las Vegas Boulevard South, Suite 320 Las Vegas, NV 89119

Type of Land Development/Land Disturbance Process:

☐	Rezoning	☐	Subdivision Map	☐	Clearing and Grading Only
☐	Parcel Map	☐	Planned Unit Development	☒	Other (Please specify below)
☐	Large Parcel Map	☒	Building Permit	GRADING PERMIT	

1. Total Owned Land Area: At Site: +/- 5.86 acres Being Developed/Disturbed: +/- 0.53 acres

2. Is a portion or all of the subject property located in a designated FEMA Flood Hazard Area? ☐ Yes** ☒ No

3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? ☐ Yes** ☒ No

4. Proposed type of development (Residential, Commercial, Etc.): Commercial

5. Approximate upstream land area which drains to the subject site: N/A

6. Has the site drainage been evaluated in the past? ☒ YES ☐ NO If yes, please identify documentation: Technical Drainage Study for Centennial 215 Plaza; Momeni Engineering, March 2020

7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: US 95 Ramp

8. Briefly describe your proposed schedule for the subject project: ASAP

Submit this form as part of the required drainage study to the local entity which has jurisdiction over the subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

***New Required Field**

****Review and concurrence of the Clark County Regional Flood Control District is required.**

Local Entity File No.	Revision	Date

Engineer's Seal

REFERENCE:

STANDARD FORM 1



October 6, 2020

Mr. Albert Sung, P.E.
City of Las Vegas Flood Control
333 Rancho Drive
Las Vegas, NV 89106

RE: *Update to the Technical Drainage Study for Centennial 215 Plaza*

Dear Mr. Sung,

This letter certifies that all items provided on the *Update to the Technical Drainage Study for Centennial 215 Plaza* electronic submittal matches the paper version bound into the study.

With Kimley-Horn, you should expect more and will experience better. Please contact me at (702) 790-0206 or michael.schwab@kimley-horn.com should you have any questions or concerns.

Sincerely,

Michael Schwab, P.E.

**Update to the
Technical Drainage Study
for**

Centennial 215 Plaza

Date Prepared:
October 2020

Prepared for:
Chick-fil-A
5200 Buffington RD
Atlanta, GA 30349
303.519.4834

Prepared by:
Kimley-Horn and Associates, Inc.
6671 Las Vegas Boulevard South, Suite 320
Las Vegas, NV 89119
702.862.3600



October 6, 2020

Mr. Albert Sung, P.E.
City of Las Vegas Flood Control
333 Rancho Drive
Las Vegas, NV 89106

RE: *Update to the Technical Drainage Study for Centennial 215 Plaza (DS-5190)*

Dear Mr. Sung,

The purpose of this letter is to serve as the **Update** to the subject project. The *Technical Drainage Study for Centennial 215 Plaza* (hereinafter referred to as **TDS**) was approved by CLV on March 25, 2020. Pertinent reference material has been included in **Appendix B**. The **Update** included herein, is intended to supersede data contained in previous studies.

Since approval of **TDS**, some site revisions have been made in the area of **Pad 1**, which is a proposed building for a Chick-fil-A, as shown on the referenced grading plans and referenced **Figure DR2 – Developed Condition Drainage Map** found in **Appendix B**. The proposed revisions include:

- Added a sidewalk adjacent to the north side of the building.
- Moved the gutter along the west side of the building to west side of the drive thru to allow runoff to drain away from the building.
- Removed a loading zone east of the building and replaced with a parking stall and landscape.
- Revised trash enclosure and provided a sidewalk path to trash enclosure.
- Revised the sidewalk south of the building to slope away from the building at 1.50% or less and changed the curb to 0" curb.
- Added a patio area to the east side of the building and revised the sidewalk path to the door on the east side of the building.

The proposed project generally maintains existing drainage patterns and the proposed buildings meet finished floor elevation criteria. The methodologies and calculations presented in this report are in compliance with the CCRFCD Hydrologic Criteria and Drainage Design Manual (Manual).

The proposed revisions did not require any revisions the hydrology as the revised grading does not change the drainage patterns from the approved **TDS**. Furthermore, none of the hydraulic sections used to check the finished floor elevations of **Pad 1** in the approved **TDS** have changed with the proposed revisions. The pertinent reference material from the approved **TDS** has been included in **Appendix B**.

The Clark County Regional Flood Control District requirement for the finish floor elevation (FF) is that it must be 18 inches above the centerline grade of the adjacent street or be elevated to twice the depth of flow up to 18 inches above the water surface elevation (WSE). Additional criteria requires the finished floor elevation to be 6 inches above adjacent on-site flowline high point. The finished floor of the proposed building is elevated more than 18 inches above centerline grade of Centennial Center

Boulevard and the US 95 ramp. The proposed building is also elevated a minimum of 6-inches above the adjacent flowline highpoint. Please refer to **Appendix C** for the grading plans.

In general, the overall drainage patterns for the site are consistent with the original **TDS** and the proposed site plan does not significantly alter existing peak flows or the character of flows downstream of the development and do not pose any negative impacts on the downstream facilities and development.

With Kimley-Horn, you should expect more and will experience better. Please contact me at (702) 790-0206 or michael.schwab@kimley-horn.com should you have any questions.

Sincerely,

Michael Schwab, P.E.



LIST OF APPENDICES

Appendix A – Documents

- Assessor's Parcel Map
- Planning Approval

Appendix B – Reference Material

- Technical Drainage Study for Centennial 215 Plaza; Prepared by Momeni Engineering, LLC. Approved March 25, 2020. DS-5190.

Appendix C – Improvement Plans

Appendix D – Data CD

Appendix A – Documents

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Appendix C – Improvement Plans

Appendix D – Data CD

NOTES

This map is for assessment use only and does NOT represent a survey.

No liability is assumed for the accuracy of the data delineated herein. Information on roads and other non-assessed parcels may be obtained from the Road Document Listing in the Assessor's Office.

This map is compiled from official records, including surveys and deeds, but only contains the information required for assessment. See the recorded documents for more detailed legal information.

USE THIS SCALE (FEET) WHEN MAP REDUCED FROM 11X17 ORIGINAL

0 100 200 400 600 800

ASSESSOR'S PARCELS - CLARK COUNTY, NV.

Briana Johnson - Assessor

MAP LEGEND

—	PARCEL BOUNDARY	□	CONDOMINIUM UNIT	001	ROAD PARCEL NUMBER
- - -	SUB BOUNDARY	□	AIR SPACE PCL	001	PARCEL NUMBER
—	PM/LD BOUNDARY	□	RIGHT OF WAY PCL	1.00	ACREAGE
—	ROAD EASEMENT	□	SUB-SURFACE PCL	202	PARCEL SUB/SEQ NUMBER
- - -	MATCH / LEADER LINE			PB 24-45	PLAT RECORDING NUMBER
- - -	HISTORIC LOT LINE			5	BLOCK NUMBER
- - -	HISTORIC SUB BOUNDARY			5	LOT NUMBER
- - -	HISTORIC PM/LD BOUNDARY			GL5	GOV. LOT NUMBER
- - -	SECTION LINE				

BOOK T19S R60E

099	100	101
126	125	124
137	138	139

Scale: 1" = 200'

SEC. 28

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

MAP N 2 NE 4

8	4	8	4
5	1	5	1
6	2	6	2
7	3	7	3
8	4	8	4
5	1	5	1

125-28-5



DS #:

5190

APN:

125-28-510.001

PROJECT:

Conkinnia 215 Plaza

SUBMITAL:

1st

SCANNED BY/DATE:

CHECKED BY/DATE:



CITY OF LAS VEGAS INTER-OFFICE MEMORANDUM

DATE:

March 25, 2020

TO:
Land Development Services
Department of Building & Safety

FROM:
Jennifer Shinn, P.E. 
Flood Control, Engr. Associate
Department of Public Works

SUBJECT: Drainage Study for:
Centennial 215 Plaza

COPIES TO:
Momeni Engineers

Cross Streets: NEC of Centennial Center Blvd & US95

Jazz Trust/Great American Capital

File Number: F:\Depot\DSMemos\DS5190D.doc

Bart Anderson, P.E., DevCo

Parcel Number: 125-28-510-001

CCRFCD

Zoning Action: SDR-77191

FEMA Flood Zone YES NO X

Proposed Storm Drain YES X NO

HISTORY	DATE RECEIVED	DATE REVIEWED	COMMENTS	REVIEW FEES	FEES PAID Payment Trn #
1 st Submittal	9/4/2019	9/26/2019	See Comments Below	\$400.00	3571923: \$400
2 nd Submittal	12/2/2019	12/16/2019	Conditionally Approved	\$400.00	3658785: \$400
3 rd Submittal	2/13/2020	3/11/2020	CCRFCD Comments	\$400.00	3744093: \$400
4 th Submittal	3/23/2020	3/25/2020	Approved	N/C	N/C
TOTAL FEES (LDDRS):				\$1200.00	----

REMARKS:

The Drainage Study for the subject project has been reviewed and:

X	is approved subject to conformance to all City standards and the following conditions:
	must be resubmitted or supplemented including the following:
	is conditionally approved subject to Clark County Regional Flood Control District concurrence.
	is conditionally approved subject to Clark County Public Works Department concurrence.

NOTE: Any future changes to the proposed design (or design assumptions) as outlined in the approved drainage study and attached preliminary grading plan which affect drainage must be addressed in a Drainage Study Update and accepted by the *City of Las Vegas Flood Control Section*. Additionally, conditional acceptance of a drainage study is valid for a period of one (1) year. If the proposed construction has not been completed in that time period, the *City of Las Vegas* reserves the right to require additional conditions and/or submission and acceptance of a complete drainage study update prior to further construction of a project.

NOTE: Please be advised that all land surface area disturbances over 1 acre or any area adjacent to a water way must submit to the *Nevada Division of Environmental Protection* a "Notice of Intent" to discharge that certifies a stormwater pollution prevention plan has been developed and is maintained on site; for inclusion in the Stormwater General Permit No. NVR100000. A phased construction unit in a contiguous subdivision is considered under construction until all stripped or disturbed surface areas have been covered by paving, building construction or planting. For more information, including forms and applications see <http://ndep.nv.gov/bwpc/storm01.htm> or call (775) 687-9429.

END OF REMARKS

jks

T/R/S: T19S/R60E/28

AREA G-28

**Technical Drainage Study
For
Centennial 215 Plaza
City of Las Vegas, Nevada**

Prepared For:

Great American Capital
8350 W. Sahara Avenue, Suite 210
Las Vegas, Nevada 89117
(702) 255-4558

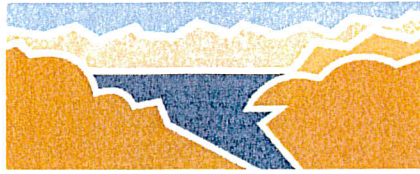
Prepared By:

Momeni Engineers, LLC.
3110 S. Durango Drive, Suite 205
Las Vegas, Nevada 89117
(702) 902-2444

Project Number 103114

August 2019

REGIONAL FLOOD CONTROL DISTRICT



Steven C. Parrish, P.E.
General Manager/Chief
Engineer

BOARD OF DIRECTORS

Lawrence L. Brown, III
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Clark County

Mayor Debra March
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City of Las Vegas

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City of North Las Vegas

Mayor Kiernan McManus
City of Boulder City

March 23, 2020

Mr. Oh Sang Kwon, P.E.
City of Las Vegas Department of Public Works
333 North Rancho Drive
Las Vegas, NV 89106

**DISTRICT CONCURRENCE: CENTENNIAL 215 PLAZA
(DS5190B) (RFCD No. 20-11427)**

Dear Mr. Kwon:

Clark County Regional Flood Control District (District) reviewed Technical Drainage Study dated September 4, 2019, Addendum No. 1 dated December 2, 2019, and Addendum No. 2 dated February 13, 2020 for above-mentioned project as submitted by MOMENI ENGINEERS, LLC. In addition, District is in receipt of the Conditional Letter of Acceptance from City of Las Vegas Department of Public Works dated March 11, 2020.

District concurs with acceptance of this Technical Drainage Study by City of Las Vegas Department of Public Works with the following condition(s):

Note that per District's Policies and Procedures Manual, Section VIII.D.13 Uniform Regulations for the Control of Drainage, the Lead Entity shall provide As-Built plans or record drawings to the District after completion and final inspection of such privately installed flood control facilities that have a regional flood control significance.

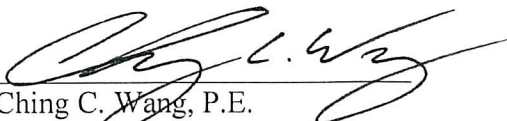
District's review of this project was limited to issues of Regional Flood Control Significance as defined in *Uniform Regulations for the Control of Drainage*.



Mr. Oh Sang Kwon, P.E.
March 23, 2020
Page 2

Please be aware that as additional information becomes available and/or restudies of Flood Insurance Studies are performed, information submitted by MOMENI ENGINEERS, LLC. may be superseded. Compliance with regulatory elements and design standards specified in *Uniform Regulations for the Control of Drainage* does not imply a guarantee that properties will be free from flooding or flood damage. The District, its officials, or employees assume no liability for information, data, or conclusions presented by consulting engineers. We, therefore, make no warranties, either expressed or implied, in conducting this review.

STEVEN C. PARRISH, P.E.
General Manager/Chief Engineer

BY: 
Ching C. Wang, P.E.
Senior Civil Engineer

CCW:jb

c: Moe Momeni, P.E., Momeni Engineers, LLC

P:\Letters and Memos\Local Drainage\Land Development & Drainage\2020\L-20-11427as_built.doc

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL
DRAINAGE STUDY INFORMATION FORM

Name of Development: _____ Date: August 201
 Location of Development: a) Descriptive (Cross Streets): _____ North/South: so Blanca Road
 East/West: Centennial Center Boule ard
 b) Section: 28 Township: 1 S Range: 60
 c) APN: 125-28-510-001

Name of Owner: _____
 Telephone No.: 02-253-53 1 Fax No.: 02-255- 556 E-mail Address: att reatAC.com
 Address: _____

Contact Person – Name: _____ Telephone No.: _____
 *E-mail Address: _____ Fax No.: _____
 Firm: _____
 Address: _____

Type of Land Development/Land Disturbance Process:

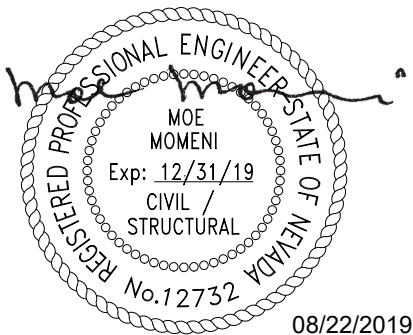
☐ Rezoning	☐ Subdivision Map	☐ Clearing and grading Only
☐ Parcel Map	☐ Planned Unit Development	☐ Other (Please specify below)
☐ Large Parcel Map	☒ Building Permit	☐

1. Total Owned Land Area: At Site: 5.86+/- Ac Being Developed/Disturbed: 5.86+/- Ac
2. Is a portion or all of the subject property located in a FEMA Flood Hazard Area? ☐ Yes** ☒ No
3. Is the property bordered or crossed by an existing or proposed Clark County Regional Flood Control District Master Planned Facility? ☒ Yes** ☐ No
4. Proposed type of development (Residential, Commercial, Etc.): Commercial
5. Approximate upstream land area which drains to the subject site: 22.30 +/- Ac
6. Has the site drainage been evaluated in the past? ☒ Yes** ☐ No If yes, please identify documentation: _____

Technical Drainage Study Update #2 to the Hydrology Study and Flood Control Pre-Design for Centennial Centre (DS 2515)

7. If known, please briefly identify the proposed discharge point(s) of runoff from the site: North into the Ranch Road System - Beltway
.....CCRFCF facility adjacent to the site thru onsite storm drains

8. Briefly describe your proposed schedule for the subject project: ASAP



Submit this form as part of the required drainage study to the local entity which has jurisdiction over The subject property. This form may provide sufficient information to serve as the Conceptual Drainage Study.

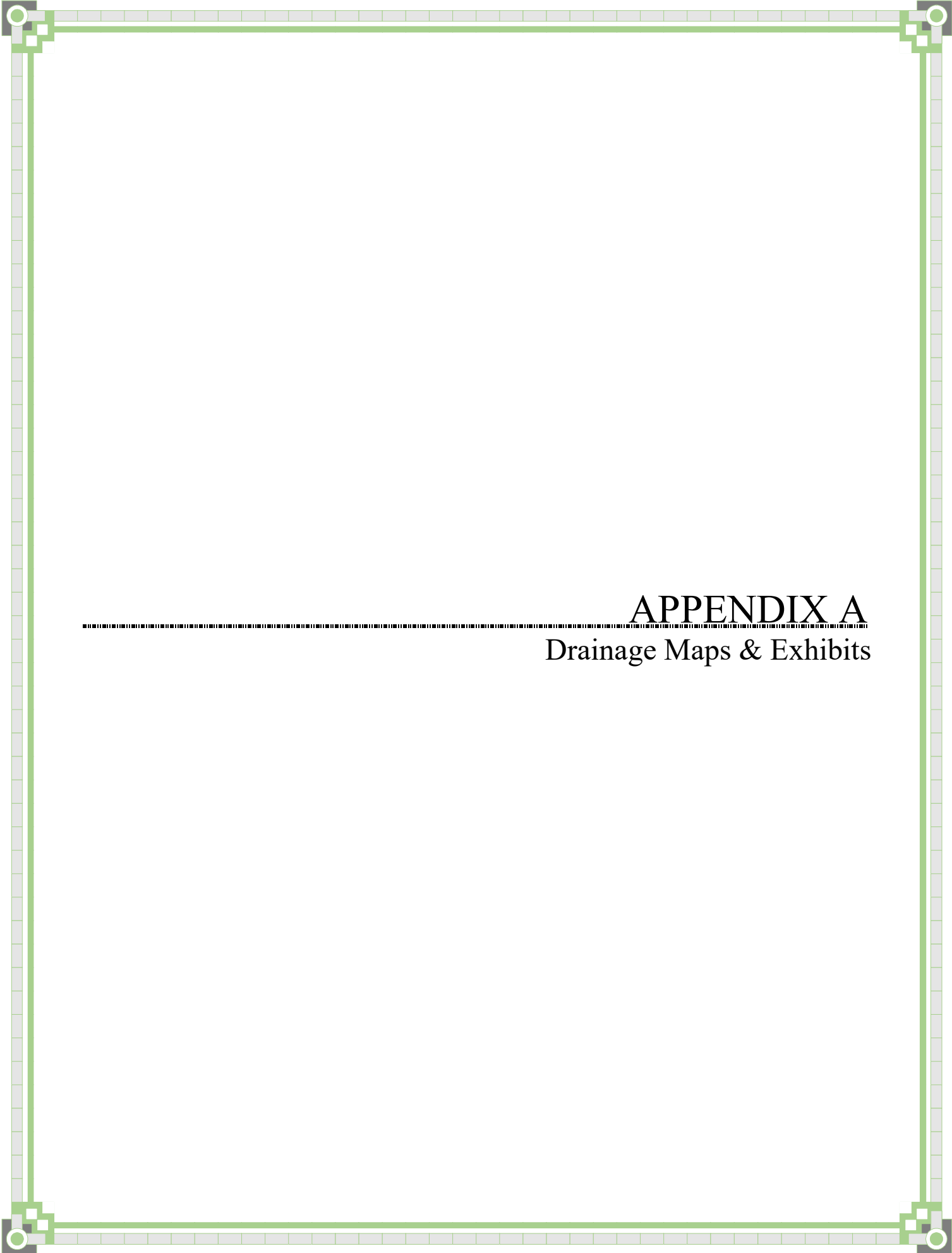
***Newly Required Field**

****Review and concurrence of the Clark County Regional Flood Control District is required**

Local Entity File No.	Revision	Date

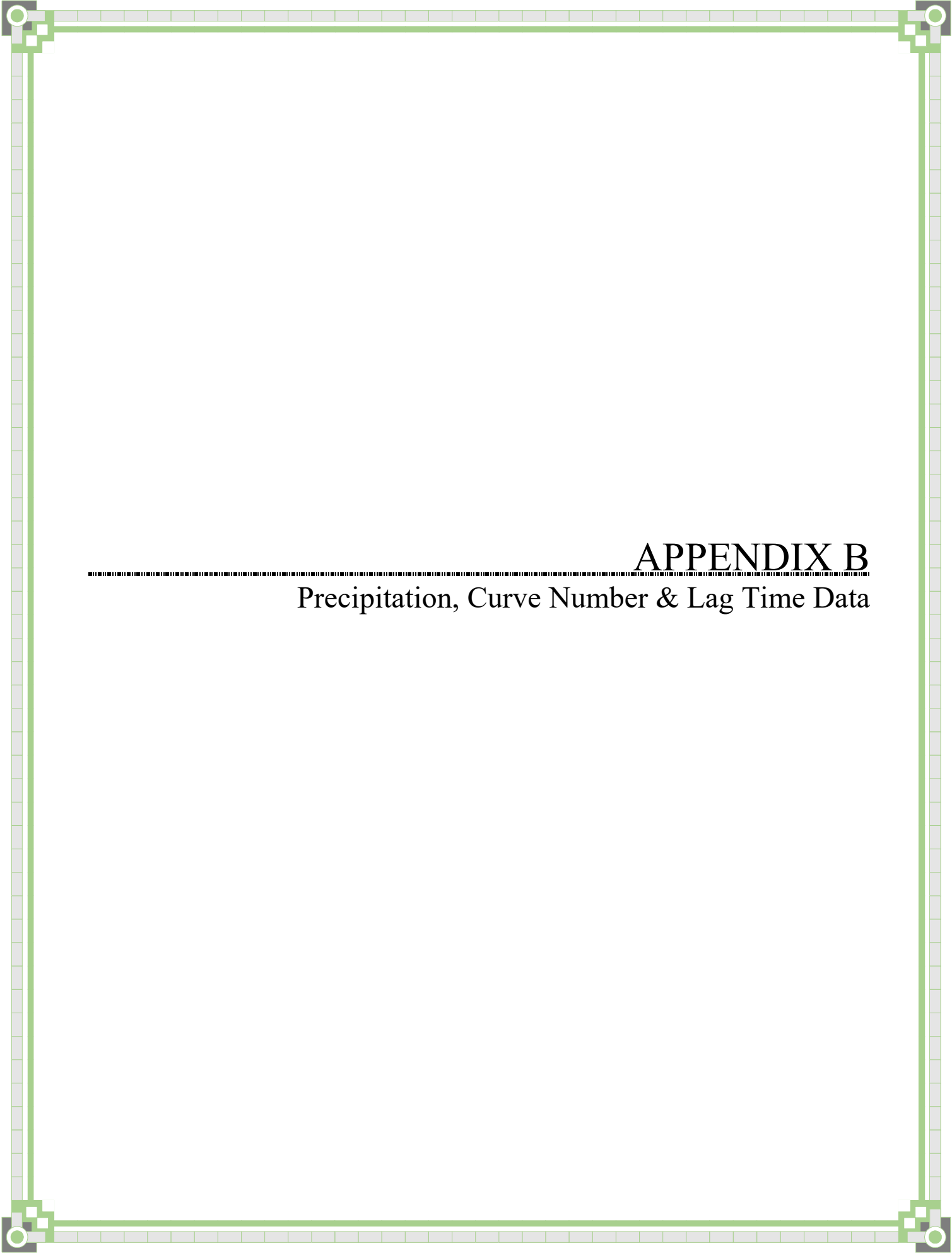
REFERENCE: _____ STANDARD FORM 1

Updated 05/01/2008



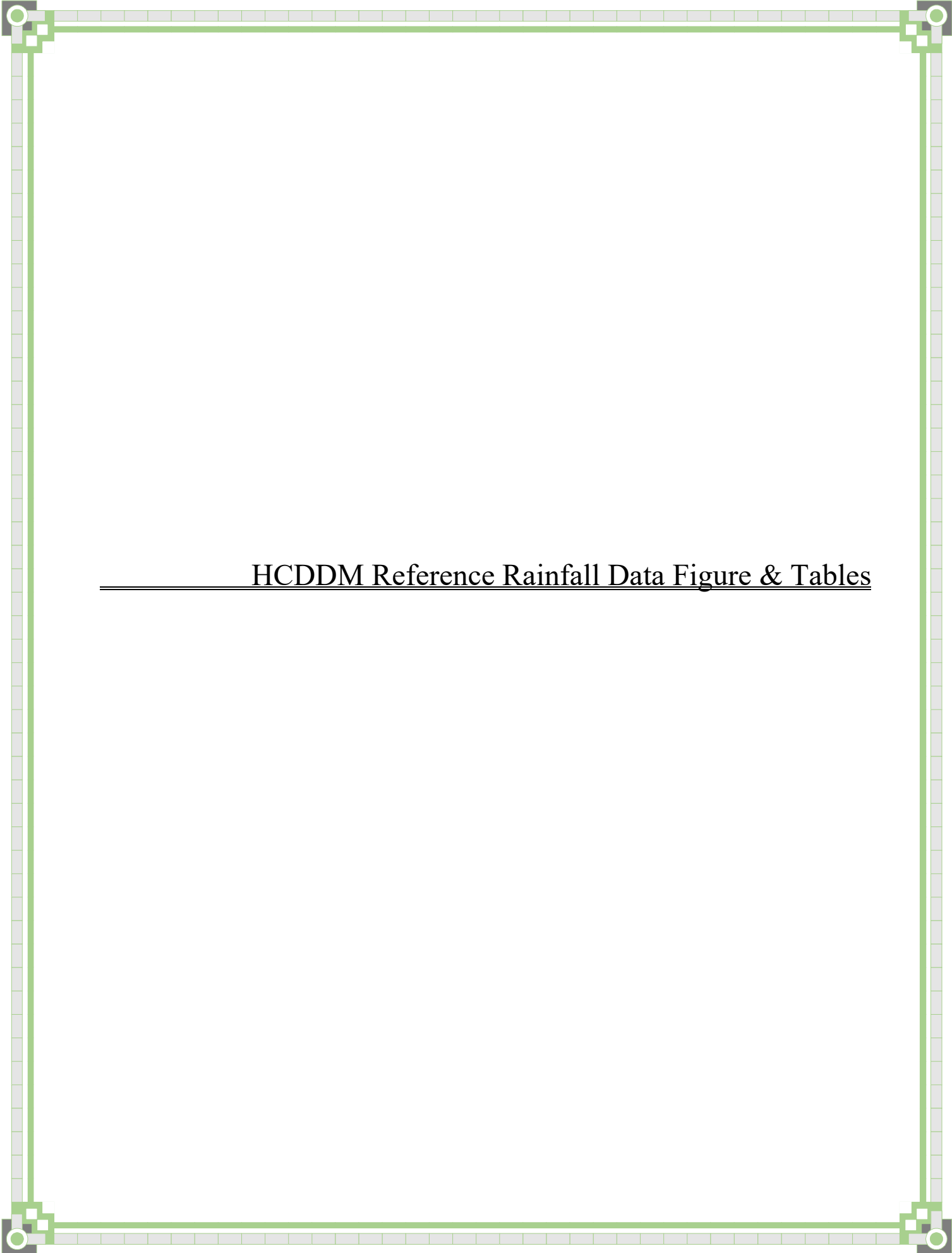
APPENDIX A

Drainage Maps & Exhibits



APPENDIX B

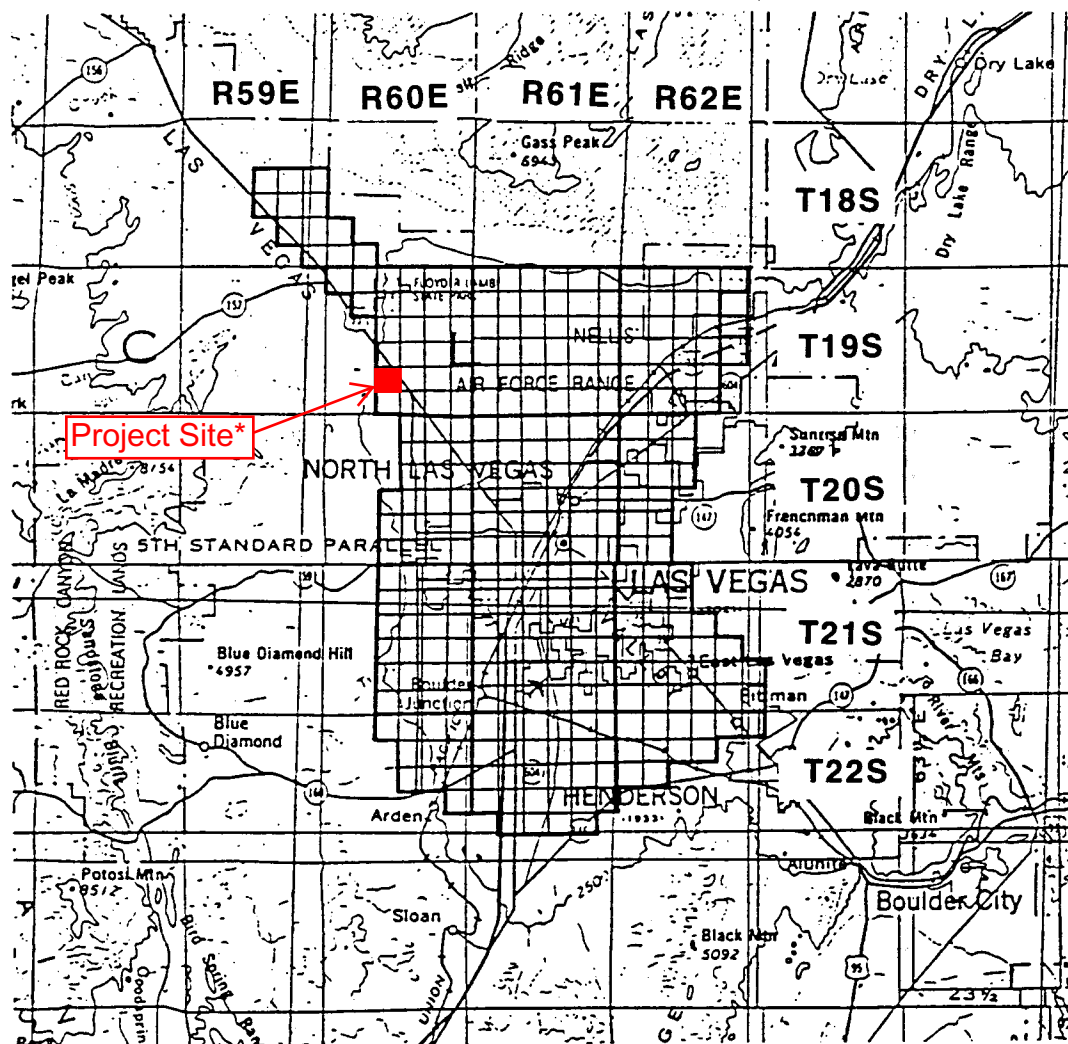
Precipitation, Curve Number & Lag Time Data



HCDDM Reference Rainfall Data Figure & Tables

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

McCARRAN AIRPORT RAINFALL AREA



TOWNSHIP RANGE SECTIONS

18 South	59 East	13-15,22-26,36
18 South	60 East	30-32
19 South	60 East	1-6,8-16,21-28,33-36
19 South	61 East	ALL SECTIONS
19 South	62 East	2-11,14-23,27-34
20 South	60 East	1-3,10-15,21-28,33-36
20 South	61 East	ALL SECTIONS

TOWNSHIP RANGE SECTIONS

20 South	62 East	4-9,16-20,29-32
21 South	60 East	1-4,9-16,21-28,33-36
21 South	61 East	ALL SECTIONS
21 South	62 East	4-9,15-23, 25-36
22 South	60 East	1-4,10-15,24
22 South	61 East	1-24,26-29
22 South	62 East	1-10,17-18

Notes:

1. Refer to Table 505 and Figure 516 Depth-Duration- Frequency values in the McCarran Airport Rainfall Area.
2. Refer to Table 506 and Figure 517 for Time-Intensity-Frequency values on the McCarran Airport Rainfall Area.

Revision	Date

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

DEPTH-DURATION-FREQUENCY VALUES FOR McCARRAN AIRPORT RAINFALL AREA (IN INCHES)

TIME	RECURRENCE INTERVAL					
	2-YR	5-YR	10-YR	25-YR	50-YR	100-YR
5 min.	0.15	0.27	0.35	0.46	0.54	0.63
10 min.	0.25	0.44	0.57	0.74	0.89	1.02
15 min.	0.33	0.57	0.74	0.97	1.15	1.32
30 min.	0.44	0.78	1.01	1.31	1.55	1.79
1 hour	0.52	0.89	1.15	1.50	1.78	2.06
2 hour	0.59	1.01	1.30	1.70	2.01	2.30
3 hour	0.64	1.08	1.39	1.82	2.15	2.48
6 hour	0.72	1.22	1.58	2.05	2.41	2.77
24 hour (TR-55)	1.20	1.60	1.80	2.40	2.70	2.96

- NOTE: 1. Refer to Figure 513 for a description and drawing of the area included in the McCarran Airport Rainfall Area.
2. The 24 hour values presented above are for use with TR-55 only.
3. Table 501 adjustments not required.

Revision	Date

SIX HOUR DEPTH-AREA REDUCTION FACTORS

<u>Drainage Area (Square Miles)</u>	<u>Six-Hour Depth-Area Reduction Factor</u>
0.0	1.00
0.5	0.98
1.0	0.97
2.0	0.93
4.0	0.91
6.0	0.90
8.0	0.88
10.0	0.86
20.0	0.79
30.0	0.74
50.0	0.68
100.0	0.60
150.0	0.55
200.0	0.51
300.0	0.46
400.0	0.42
500.0	0.39

- NOTES: 1. A graphical representation of these factors is presented in Figure 514.
2. Consult with the local entity and/or the CCRFCD for guidance in using the Depth-Area Reduction Factors for drainage areas greater than 200 square miles.

<i>Revision</i>	<i>Date</i>

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

SIX-HOUR STORM DISTRIBUTIONS

Percent of Total Storm Depth				Percent of Total Storm Depth			
Storm Time (In Minutes)	SDN3	SDN4	SDN5	Storm Time (In Minutes)	SDN3	SDN4	SDN5
0	0.0	0.0	0.0	185	32.2	37.6	43.0
5	2.0	2.0	2.0	190	35.2	41.5	47.7
10	5.7	5.8	5.9	195	40.9	46.2	51.4
15	7.0	7.5	8.0	200	49.9	53.0	56.1
20	8.7	9.9	11.0	205	59.0	61.0	63.0
25	10.8	12.6	14.4	210	71.0	71.0	71.0
30	12.4	13.7	15.0	215	74.4	73.2	72.0
35	13.0	14.5	16.0	220	78.1	75.6	73.1
40	13.0	14.9	16.8	225	81.2	78.2	75.2
45	13.0	15.1	17.1	230	81.9	79.9	77.9
50	13.0	15.5	18.0	235	83.5	81.3	79.0
55	13.0	15.6	18.2	240	85.1	82.3	79.5
60	13.0	15.9	18.7	245	85.6	83.0	80.4
65	13.3	16.2	19.0	250	86.0	83.5	81.0
70	14.0	16.9	19.7	255	86.8	84.4	82.0
75	14.2	17.2	20.2	260	87.6	85.1	82.6
80	14.8	17.9	21.0	265	88.8	86.4	84.0
85	15.8	18.9	22.0	270	91.0	88.5	85.9
90	17.2	20.1	23.0	275	92.6	90.8	88.9
95	18.1	21.1	24.1	280	93.7	92.4	91.0
100	19.0	22.0	25.0	285	95.0	94.4	93.8
105	19.7	22.8	25.9	290	97.0	96.8	96.6
110	19.9	23.2	26.5	295	97.6	97.3	97.0
115	20.0	24.0	28.0	300	98.2	97.8	97.4
120	20.1	24.6	29.0	305	98.5	98.2	97.9
125	20.4	25.2	30.0	310	98.7	98.4	98.1
130	21.4	26.0	30.5	315	98.9	98.6	98.3
135	22.9	26.9	30.9	320	99.0	98.8	98.5
140	24.1	27.6	31.0	325	99.3	99.1	98.9
145	24.9	28.3	31.7	330	99.3	99.2	99.0
150	25.1	28.6	32.1	335	99.4	99.3	99.2
155	25.6	29.2	32.7	340	99.5	99.4	99.3
160	27.0	30.2	33.3	345	99.8	99.7	99.6
165	27.8	31.2	34.6	350	99.8	99.8	99.7
170	28.1	32.1	36.1	355	99.9	99.9	99.9
175	28.3	33.2	38.1	360	100.0	100.0	100.0
180	29.5	35.2	40.8				

- Notes
1. For drainage areas less than 8 square miles in size, use SDN 3.
 2. For drainage areas greater than or equal to 8 square miles and less than 12 square miles in size, use SDN 4.
 3. For drainage areas greater than or equal to 12 square miles, use SDN 5.
 4. A graphical representation of these values is presented on **Figure 515**.

Revision	Date

REFERENCE:

TABLE 503

HCDDM Runoff Curve Number Table 602

RUNOFF CURVE NUMBERS (URBAN AREAS¹)

Cover description		Curve numbers for hydrologic soil group—			
Cover type and hydrologic condition	Average percent impervious area ²	A	B	C	D
<i>Fully developed urban areas (vegetation established)</i>					
Open space (lawns, parks, golf courses, cemeteries, etc.) ³ :					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved: curbs and storm sewers (excluding right-of-way)		98	98	98	98
Paved: open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only) ⁴ ...		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94	95
Industrial	72	81	88	91	93
Residential districts by average lot size:					

See Table 602A

Developing urban areas

Newly graded areas (pervious areas only, no vegetation) ⁵	77	86	91	94
--	----	----	----	----

1 Average runoff condition, and $I_a = 0.2S$.

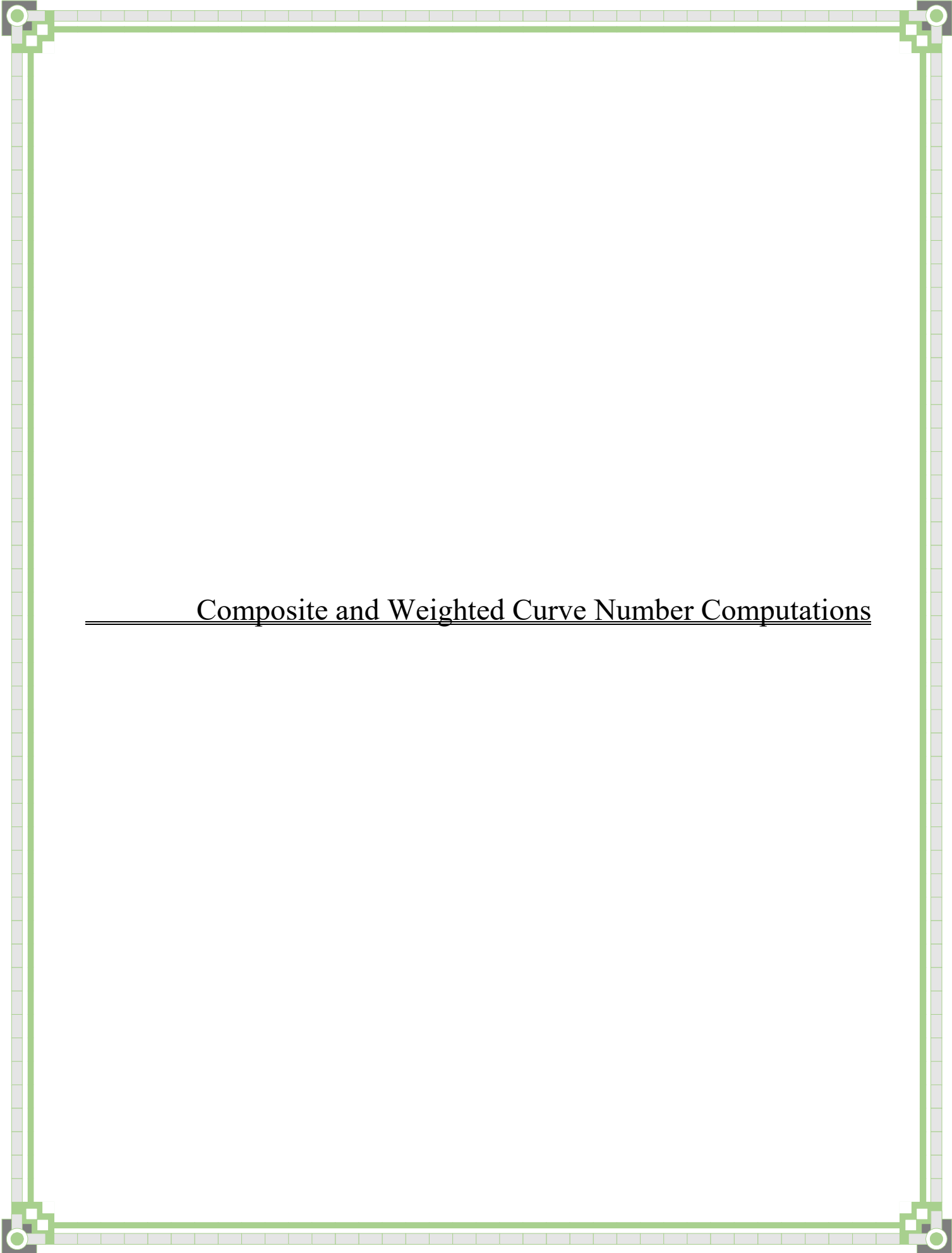
2 The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system. Impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using Figure 603.

3 CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

4 Composite CN's for natural desert landscaping should be computed using Figure 603 based on the impervious area percentage (CN #98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

5 Composite CN's to use for the design of temporary measures during grading and construction should be computed using Figure 603 based on the degree of development impervious area percentage) and the CN's for the newly graded pervious areas.

Revision	Date



Composite and Weighted Curve Number Computations

Soil Data & Curve Number Computation

Project Name & Number: Centennial 215 Plaza

Date: 8/18/2019

By: RFF

Data:
Reference:

 Exhibit D
NRCS Soil Data

Soil Type - Soil Survey Area & Version, Soil Description				A	B	C	D
LV	192	Las Vegas Valley 2016	Dalian-McCullough complex, 0 to 4 percent slopes	55%	35%	0%	10%

Land Use	A	B	C	D
Commercial	89	92	94	95
Newly Graded	77	86	91	94

*Commercial land use per Note 3

EXISTING CONDITION

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OSO	LV	191	3.3%	Roadway	100%	0%	0%	0%	98	98	98	98	0.02	3.27
OSO	LV	192	96.7%	Roadway	55%	35%	0%	10%	98	98	98	98	0.58	94.73
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									0.60	98.0

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
ONX1	LV	192	100.0%	Newly Graded	55%	35%	0%	10%	77	86	91	94	2.44	81.85
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									2.44	81.9

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
ONX2	LV	192	100.0%	Newly Graded	55%	35%	0%	10%	77	86	91	94	3.42	81.85
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									3.42	81.9

DEVELOPED CONDITION

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND1	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	0.72	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									0.72	90.7

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND2	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	0.74	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									0.74	90.7

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND3	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	1.13	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									1.13	90.7

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND4	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	2.41	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									2.41	90.7

BASIN ID	SURVEY AREA	SOIL TYPE	SUBAREA PERCENT	LAND USE	HYDROLOGIC SOIL GROUP PERCENTS				LAND USE CN				SUBAREA ACRES	CURVE NUMBER
					A	B	C	D	A	B	C	D		
OND5	LV	192	100.0%	Commercial	55%	35%	0%	10%	89	92	94	95	1.01	90.65
TOTAL PERCENT			100.0%	TOTAL AREA & COMPOSITE CURVE NUMBER:									1.01	90.7

Standard Form 4 Lag Time Computations



Civil & Structural Engineering

HYDROLOGIC CRITERIA AND DRAINAGE DESIGN MANUAL

TIME OF CONCENTRATION

Project Name: Centennial 215 Plaza

Project No.: 103114

File Name: Lag Time Standard Form 4.xls

By: TLD

Date: 8/18/2019

SUB-BASIN DATA				INITIAL / OVERLAND TIME (Ti)			TRAVEL TIME (Tt)				Tc		Tc Check		Tag				
DESIG:	DEV./EX. (D or E)	CN	K	AREA Ac	AREA Mi^2	INITIAL LENGTH Feet	SLOPE %	Ti Min	TRAVEL LENGTH Feet	SLOPE %	VELOCITY FPS	V1	VELOCITY FPS	V2	Tt Min	Tc Calc.	Tc Total Length Feet	Tc Check	Tag
			[1]		[2]			[3]							[6]	[7]	[8]	[9]	[10]
Existing Condition																			
OSO	D	98.0	0.904	0.60	0.0009	23	2.00	1.35	340	1.78	2.70		4.08		2.10	3.45	363	12.017	0.050
ONX1	D	81.9	0.691	2.44	0.0038	188	1.81	8.28	442	1.72	2.65		4.01		2.78	11.06	630	13.500	0.111
ONX2	D	81.9	0.691	3.42	0.0053	210	3.52	7.01	469	1.19	2.20		3.34		3.55	10.56	679	13.772	0.106
Proposed Condition																			
OND1	D	90.7	0.807	0.72	0.0011	106	0.50	6.84	202	1.50	2.47		3.75		1.36	8.20	308	11.711	0.082
OND2	D	90.7	0.807	0.74	0.0012	124	1.10	5.68	172	2.50	3.19		4.84		0.90	6.58	296	11.644	0.066
OND3	D	90.7	0.807	1.13	0.0018	68	0.50	5.47	391	0.50	1.43		2.16		4.56	10.04	459	12.550	0.100
OND4	D	90.7	0.807	2.41	0.0038	103	4.90	3.15	666	0.60	1.56		2.37		6.49	9.64	769	14.272	0.096
OND5	D	90.7	0.807	0.86	0.0013	107	1.00	5.45	596	1.50	2.47		3.75		3.80	9.25	703	13.906	0.092

[1] K = 0.0132 (CN) - 0.39

[2] A = Area/640

[3] Ti = (1.8 (1-K) L^0.5)/S^0.33

[4] For Existing Conditions: V1 = 14.8 * (S/100)^0.5

For Developed Conditions: V1 = 20.2 * (S/100)^0.5

[5] For Existing Conditions: V2 = 29.4 * (S/100)^0.5

For Developed Conditions: V2 = 30.6 * (S/100)^0.5

[6] Tt = L/(60*V)

[7] Tc = Ti + Tt

[8] Total L = Initial L + Travel L

[9] Tc = (L/180) + 10

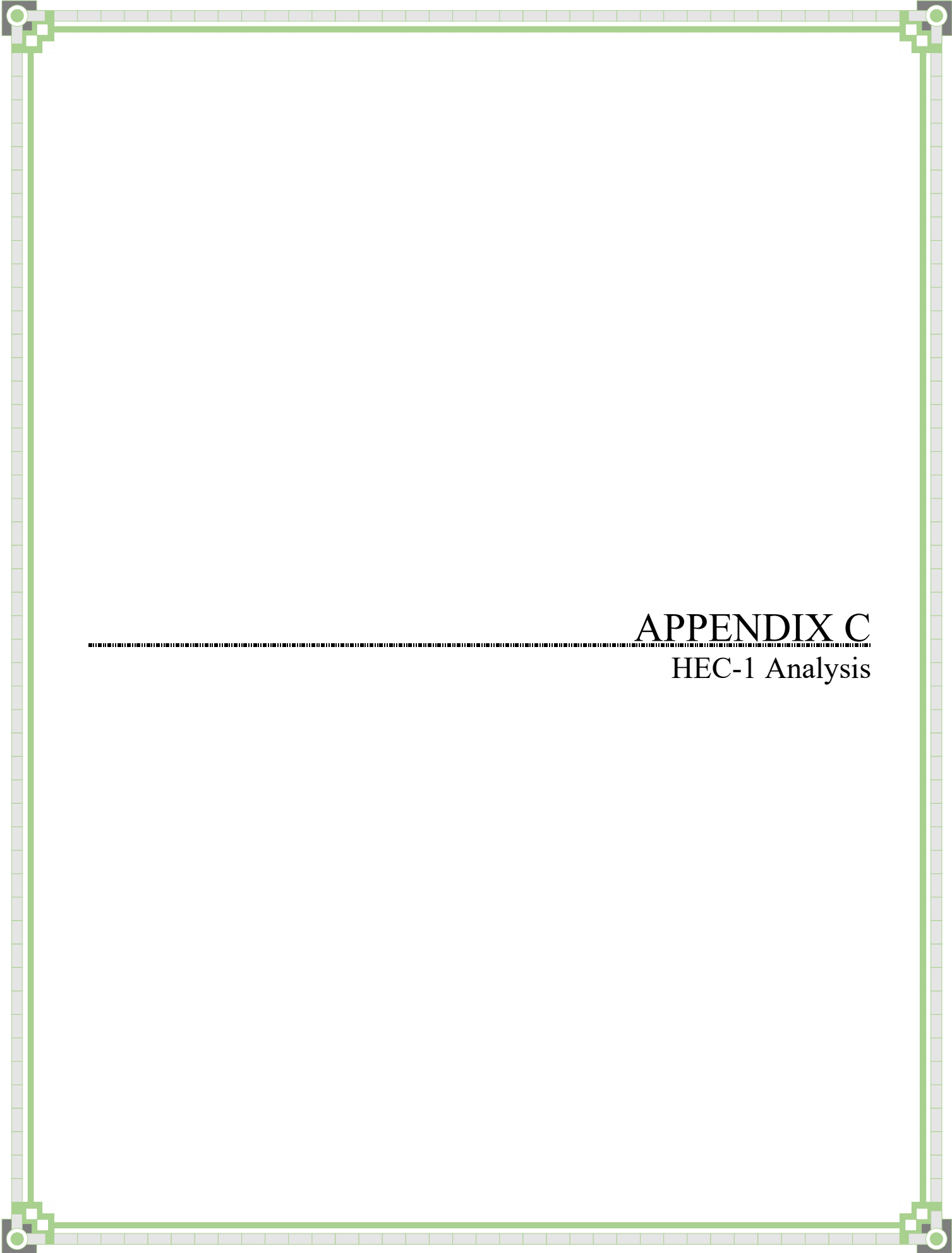
[10] Tlag = (0.6*Tc)/60

[11] Min Tlag = 0.05

Note: For Travel Time Calcs: V1 applies to first 500 feet and V2 applies to remaining distance.

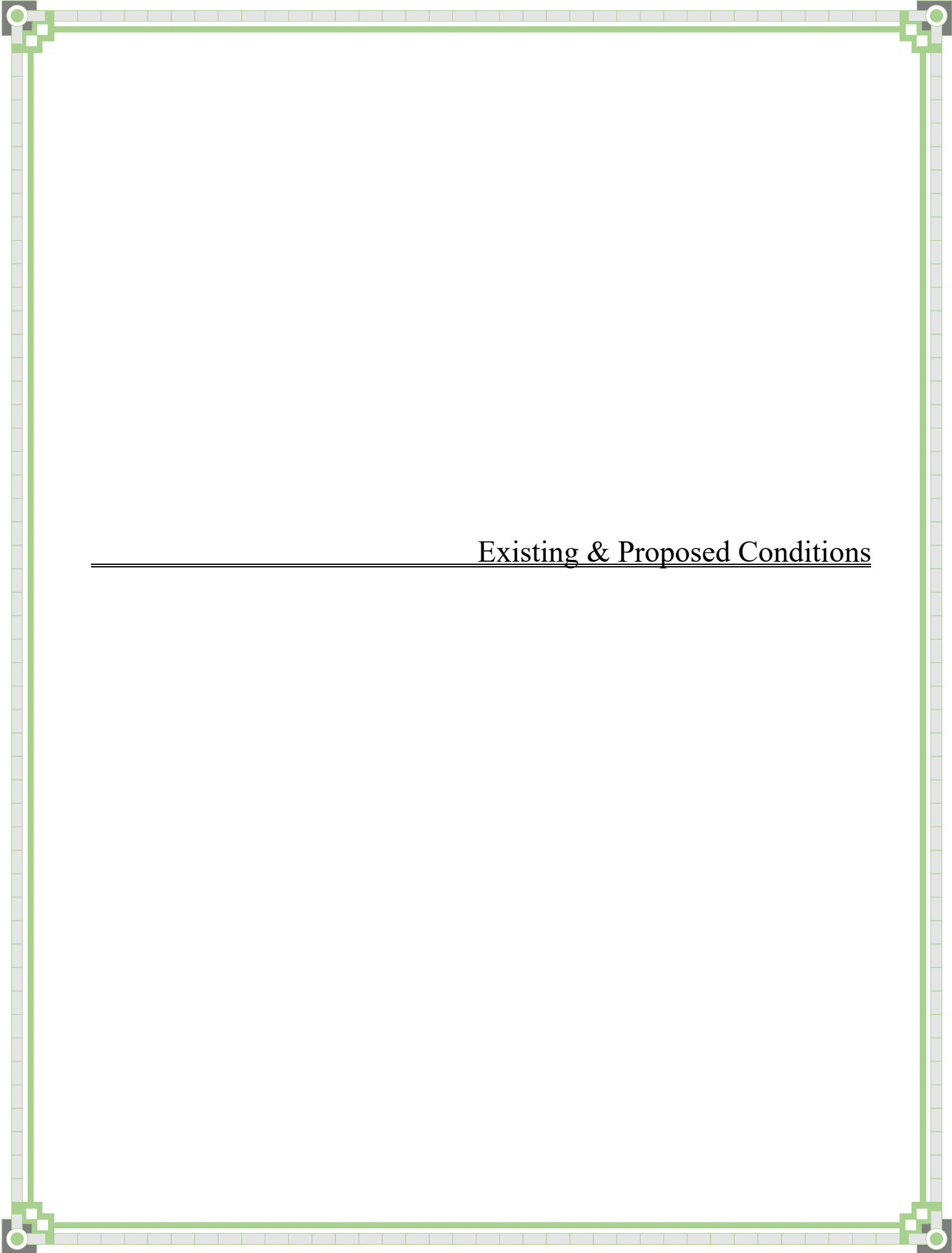
REFERENCE :

STANDARD FORM 4



APPENDIX C

HEC-1 Analysis



Existing & Proposed Conditions

```

1*****
*
* FLOOD HYDROGRAPH PACKAGE (HEC-1) *
* JUN 1998 *
* VERSION 4.1 *
*
* RUN DATE 13AUG19 TIME 10:58:40 *
*
*****

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*****
*
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET *
* DAVIS, CALIFORNIA 95616 *
* (916) 756-1104 *
*
*****

```

```

      X   X  XXXXXXX  XXXXX      X
      X   X  X      X   X      XX
      X   X  X      X   X      X
      XXXXXX XXXX  X      XXXXX  X
      X   X  X      X   X      X
      X   X  X      X   X      X
      X   X  XXXXXXX  XXXXX      XXX

```

THIS PROGRAM REPLACES ALL PREVIOUS VERSIONS OF HEC-1 KNOWN AS HEC1 (JAN 73), HEC1GS, HEC1DB, AND HEC1KW.

THE DEFINITIONS OF VARIABLES -RTIMP- AND -RTIOR- HAVE CHANGED FROM THOSE USED WITH THE 1973-STYLE INPUT STRUCTURE. THE DEFINITION OF -AMSKK- ON RM-CARD WAS CHANGED WITH REVISIONS DATED 28 SEP 81. THIS IS THE FORTRAN77 VERSION
 NEW OPTIONS: DAMBREAK OUTFLOW SUBMERGENCE , SINGLE EVENT DAMAGE CALCULATION, DSS:WRITE STAGE FREQUENCY,
 DSS:READ TIME SERIES AT DESIRED CALCULATION INTERVAL LOSS RATE:GREEN AND AMPT INFILTRATION
 KINEMATIC WAVE: NEW FINITE DIFFERENCE ALGORITHM

1

HEC-1 INPUT

PAGE 1

LINE ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

```

*DIAGRAM
1 ID CENTENNIAL 215 PLAZA - TECHNICAL DRAINAGE STUDY
2 ID 10-YR & 100-YR, 6 HOUR STORM
3 ID PROPOSED CONDITION
4 ID @@@@@@@@@@@@@@@@@@
5 ID
6 ID Project Number: 103114
7 ID MOMENI ENGINEERS, LLC
8 ID 3110 S. DURANGO DRIVE, SUITE 205
9 ID LAS VEGAS, NEVADA 89117
10 ID
11 ID FILENAME ----- PR.H1
12 ID DATE ----- JULY 2019
13 ID MODELED BY ----- DHL
14 ID
15 ID *****
16 ID * SDN 3 VALUES - WITHIN McCARRAN AIRPORT RAINFALL AREA *
17 ID *****
18 ID
19 ID
20 IT 5 0 0 300
21 IO 5 0 0
22 IN 5 0 0
23 JR PREC 1.00 0.57
*

24 KK OSO
25 KM EXISTING RIGHT-OF-WAY
26 BA .0009
27 PB 2.77
28 PC 0 0.020 0.057 0.070 0.087 0.108 0.124 0.130 0.130 0.130
29 PC 0.130 0.130 0.130 0.133 0.140 0.142 0.148 0.158 0.172 0.181
30 PC 0.190 0.197 0.199 0.200 0.201 0.204 0.214 0.229 0.241 0.249
31 PC 0.251 0.256 0.270 0.278 0.281 0.283 0.295 0.322 0.352 0.409
32 PC 0.499 0.590 0.710 0.744 0.781 0.812 0.819 0.835 0.851 0.856
33 PC 0.860 0.868 0.876 0.888 0.910 0.926 0.937 0.950 0.970 0.976
34 PC 0.982 0.985 0.987 0.989 0.990 0.993 0.993 0.994 0.995 0.998
35 PC 0.998 0.999 1.000
36 LS 0 98.0
37 UD 0.050
*

38 KK OND1
39 KM DEVELOPED ONSITE BASIN
40 BA .0011
41 LS 0 90.7
42 UD 0.082
*

43 KK OND2
44 KM DEVELOPED ONSITE BASIN
45 BA .0012
46 LS 0 90.7

```

LINE

ID.....1.....2.....3.....4.....5.....6.....7.....8.....9.....10

48

KK

OND3

49

KM

DEVELOPED ONSITE BASIN

50

BA

.0018

51

LS

0 90.7

52

UD

0.100

*

53

KK

OND4

54

KM

DEVELOPED ONSITE BASIN

55

BA

.0038

56

LS

0 90.7

57

UD

0.096

*

58

KK

CP1

59

KM

COMBINE ONSITE BASINS IN STORM DRAIN

60

HC

3

*

61

KK

OND5

62

KM

DEVELOPED ONSITE BASIN

63

BA

.0013

64

LS

0 90.7

65

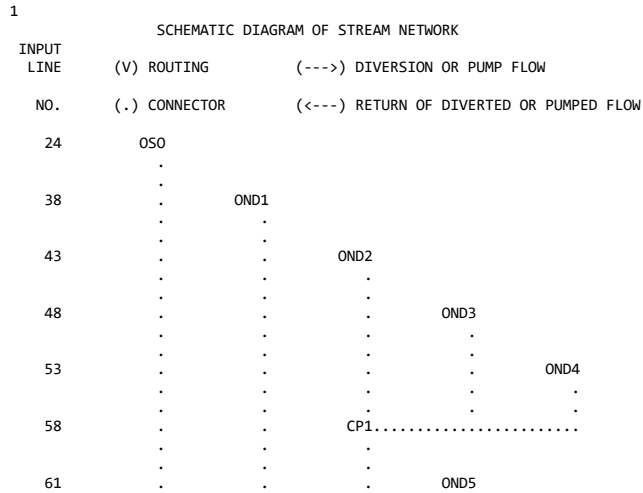
UD

0.092

*

66

ZZ



(***) RUNOFF ALSO COMPUTED AT THIS LOCATION

1*****

FLOOD HYDROGRAPH PACKAGE (HEC-1)

JUN 1998

VERSION 4.1

RUN DATE 13AUG19

TIME 10:58:40

U.S. ARMY CORPS OF ENGINEERS

HYDROLOGIC ENGINEERING CENTER

609 SECOND STREET

DAVIS, CALIFORNIA 95616

(916) 756-1104

CENTENNIAL 215 PLAZA - TECHNICAL DRAINAGE STUDY

10-YR & 100-YR, 6 HOUR STORM

PROPOSED CONDITION

@@@@@@@@@@@@@@@@@@

Project Number: 103114

MOMENI ENGINEERS, LLC

3110 S. DURANGO DRIVE, SUITE 205

LAS VEGAS, NEVADA 89117

FILENAME ----- PR.H1

DATE ----- JULY 2019

MODELED BY ----- DHL

* SDN 3 VALUES - WITHIN MCCARRAN AIRPORT RAINFALL AREA *

21 IO OUTPUT CONTROL VARIABLES
 IPRNT 5 PRINT CONTROL
 IPLOT 0 PLOT CONTROL
 QSCAL 0. HYDROGRAPH PLOT SCALE

IT HYDROGRAPH TIME DATA
 NMIN 5 MINUTES IN COMPUTATION INTERVAL
 IDATE 1 0 STARTING DATE
 ITIME 0000 STARTING TIME
 NQ 300 NUMBER OF HYDROGRAPH ORDINATES
 NDDATE 2 0 ENDING DATE
 NDTIME 0055 ENDING TIME
 ICENT 19 CENTURY MARK

 COMPUTATION INTERVAL .08 HOURS
 TOTAL TIME BASE 24.92 HOURS

 ENGLISH UNITS
 DRAINAGE AREA SQUARE MILES
 PRECIPITATION DEPTH INCHES
 LENGTH, ELEVATION FEET
 FLOW CUBIC FEET PER SECOND
 STORAGE VOLUME ACRE-Feet
 SURFACE AREA ACRES
 TEMPERATURE DEGREES FAHRENHEIT

JP MULTI-PLAN OPTION
 NPLAN 1 NUMBER OF PLANS

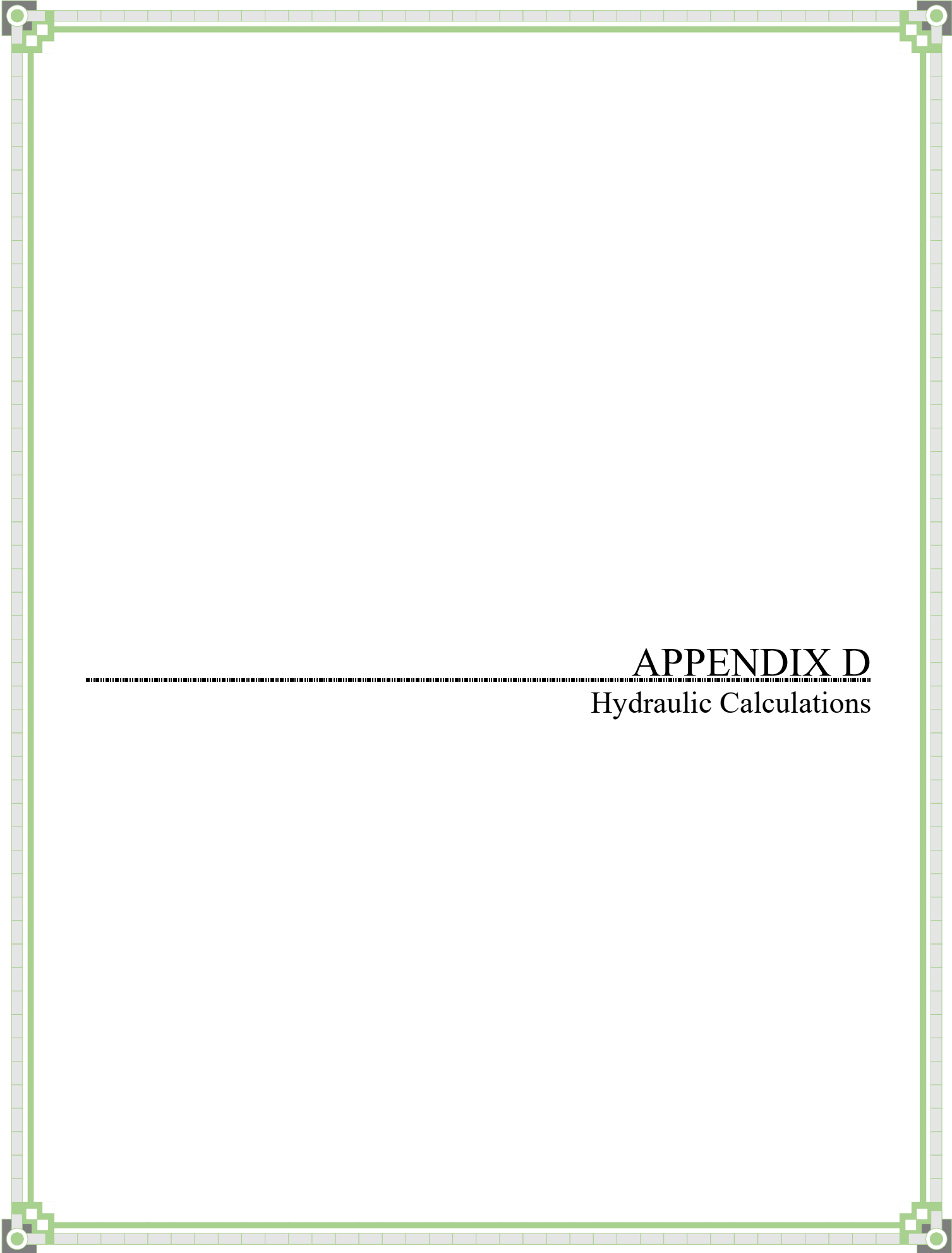
JR MULTI-RATIO OPTION
 RATIOS OF PRECIPITATION
 1.00 .57

1

PEAK FLOW AND STAGE (END-OF-PERIOD) SUMMARY FOR MULTIPLE PLAN-RATIO ECONOMIC COMPUTATIONS
 FLOWS IN CUBIC FEET PER SECOND, AREA IN SQUARE MILES
 TIME TO PEAK IN HOURS

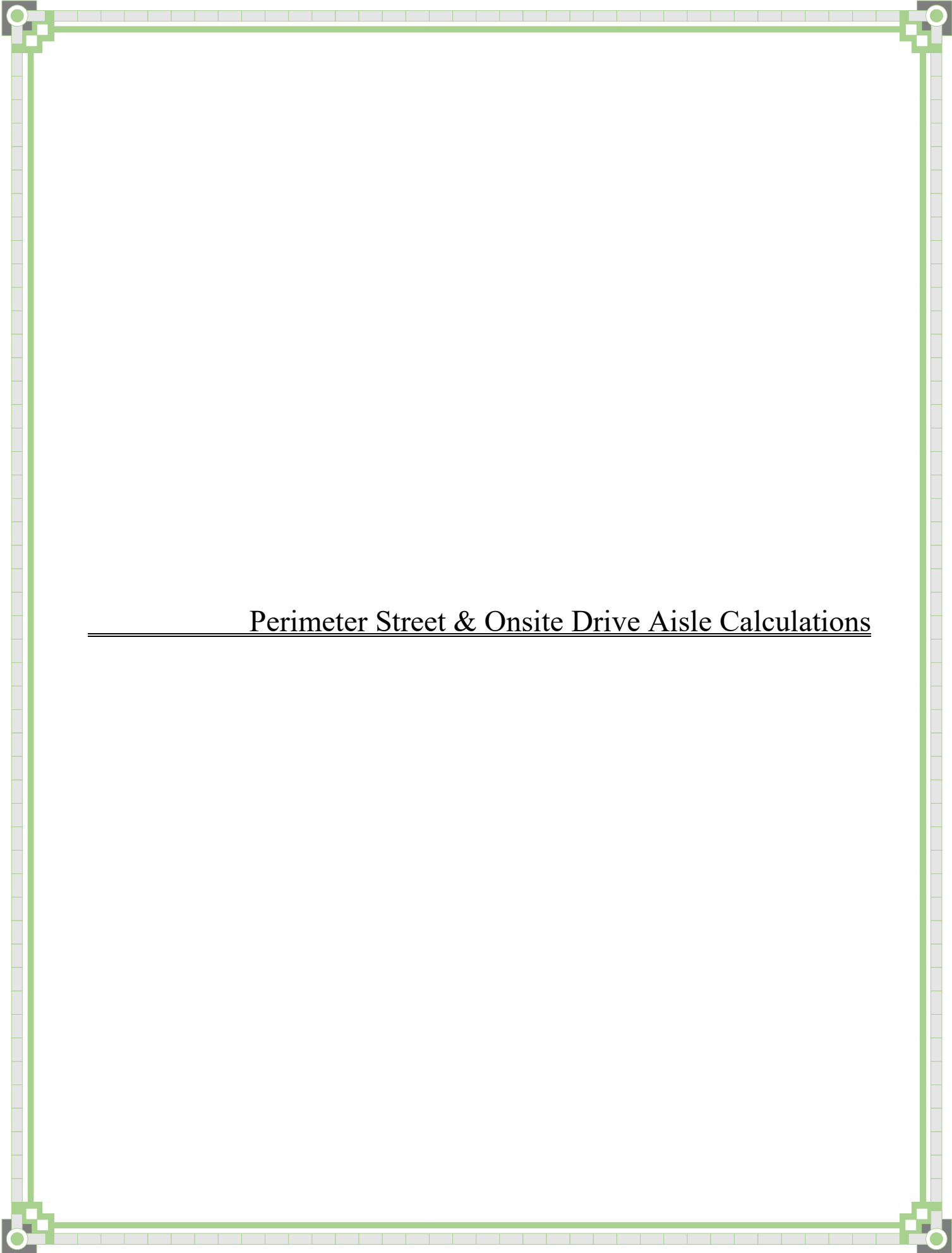
OPERATION	STATION	AREA	PLAN	RATIOS APPLIED TO PRECIPITATION	
				RATIO 1	RATIO 2
				1.00	.57
HYDROGRAPH AT					
+	OSO	.00	1 FLOW	2.	1.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND1	.00	1 FLOW	2.	1.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND2	.00	1 FLOW	2.	1.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND3	.00	1 FLOW	3.	1.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND4	.00	1 FLOW	6.	3.
			TIME	3.50	3.50
3 COMBINED AT					
+	CP1	.01	1 FLOW	11.	5.
			TIME	3.50	3.50
HYDROGRAPH AT					
+	OND5	.00	1 FLOW	2.	1.
			TIME	3.50	3.50

*** NORMAL END OF HEC-1 ***



APPENDIX D

Hydraulic Calculations



Perimeter Street & Onsite Drive Aisle Calculations

Worksheet for Section - 2b

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 0.500 %
Discharge 3.00 ft³/s
Section Definitions

Station (ft)	Elevation (ft)
0+00.00	30.70
0+00.00	30.20
0+10.50	29.78
0+12.00	29.70
0+13.50	29.78
0+24.00	29.91
0+24.00	30.41

Roughness Segment Definitions

Start Station	Ending Station	Roughness Coefficient
(0+00.00, 30.70)	(0+00.00, 30.20)	0.013
(0+00.00, 30.20)	(0+10.50, 29.78)	0.016
(0+10.50, 29.78)	(0+13.50, 29.78)	0.013
(0+13.50, 29.78)	(0+24.00, 29.91)	0.016
(0+24.00, 29.91)	(0+24.00, 30.41)	0.013

Options

Current Roughness weighted Pavlovskii's Method
Method
Open Channel Weighting Method Pavlovskii's Method
Closed Channel Weighting Method Pavlovskii's Method

Results

Normal Depth 0.24 ft
Elevation Range 29.70 to 30.70 ft

Worksheet for Section - 2b

Results

Flow Area	1.93	ft ²
Wetted Perimeter	17.55	ft
Hydraulic Radius	0.11	ft
Top Width	17.51	ft
Normal Depth	0.24	ft
Critical Depth	0.23	ft
Critical Slope	0.00763	ft/ft
Velocity	1.56	ft/s
Velocity Head	0.04	ft
Specific Energy	0.28	ft
Froude Number	0.83	
Flow Type	Subcritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

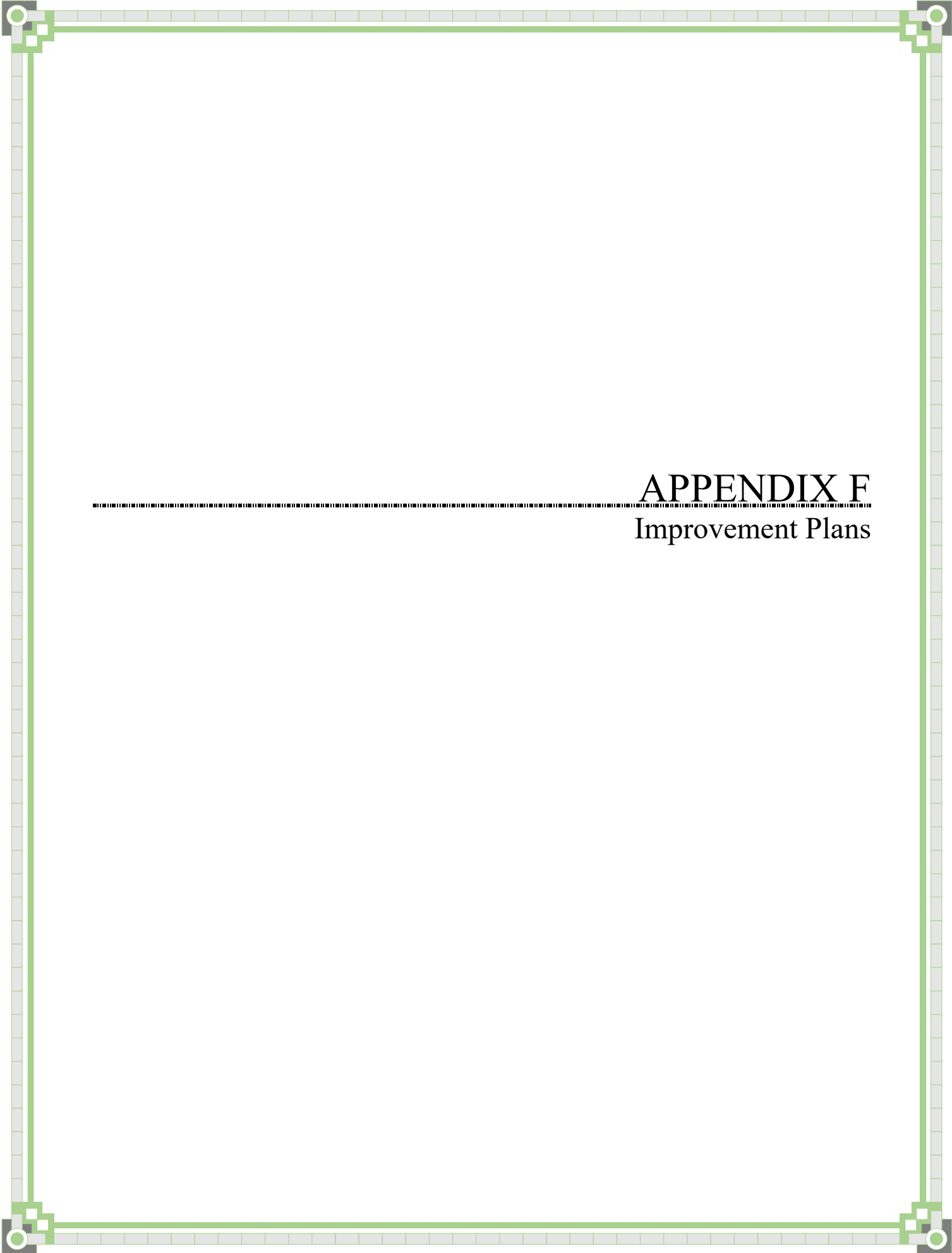
Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0.24	ft
Critical Depth	0.23	ft
Channel Slope	0.500	%
Critical Slope	0.00763	ft/ft

Project Description

Manning Formula

Normal Depth

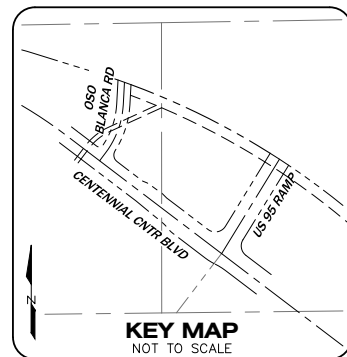
3.00 ft³/s



APPENDIX F

Improvement Plans

APN: 125-28-510-001
5.86± ACRES



CENTENNIAL 215 PLAZA
8350 W SAHARA #210
LAS VEGAS, NV 89117
CONTACT: MATT HUSS
EMAIL: Matt@GreatAC.com
TEL: 702 253-5371
FAX: 702 255-4556

GRID NORTH AS DEFINED BY THE CENTRAL MERIDIAN OF THE NEVADA COORDINATE REFERENCE SYSTEM (NCRS), LAS VEGAS ZONE (LOW DISTORTION PROJECTION), NORTH AMERICAN DATUM OF 1983; SAID MERIDIAN BEING COINCIDENT WITH 114°58' WEST OF THE GREENWICH MERIDIAN.

THE BEARING EQUATION FOR THIS PROJECT WOULD BE THE CENTERLINE OF CENTENNIAL CENTER BOULEVARD HAVING A BEARING OF S52° 43' 54"E, ALSO BEING S53° 05' 47"E AS SHOWN ON MAP THEREOF ON FILE IN BOOK 95 OF PLATS, PAGE 45, OFFICIAL RECORDS, CLARK COUNTY NEVADA

CITY OF LAS VEGAS BENCHMARK "5LV9028N4", BEING A RIVET
PLATE IN THE TOP OF CURB AT NW CORNER OF CENTENNIAL
CENTER PARKWAY & OSO BLANCA

ELEVATION: 2431.97 (FEET) 741.265 (METERS) (NAVD 1988)

WATER:	LAS VEGAS VALLEY WATER DISTRICT
SEWER:	CITY OF LAS VEGAS
GAS:	SOUTHWEST GAS CORPORATION
ELECTRIC:	NEVADA POWER COMPANY
TELEPHONE:	CENTRAL TELEPHONE COMPANY, d/b/a CENTURYLINK
CABLE:	COX COMMUNICATIONS OF LAS VEGAS, INC.
TRASH:	REPUBLIC SERVICES OF NEVADA

GEOTECHNICAL REPORT PREPARED BY: GEOTEK
6835 S ESCONDIDO ST SUITE A LAS VEGAS, NV 89119
PROJECT NO.: 15058-LV
DATED: 9/28/2019

ABAN	ABANDON	HPS	HIGH PRESSURE SODIUM
AC	ASPHALTIC CONCRETE	ID	INSIDE DIAMETER
ACP	ASBESTOS CEMENT PIPE	INT	INTERSECTION
AGG	AGGREGATE	INV	INVERT
AP	ABANDON IN PLACE	IRR	IRRIGATION
ALT	ALTERNATE	L	LONG/LENGTH
BC	BACK OF CURB	LAT	LATERAL
BCR	BEGINNING OF CURB RETURN	LF	LINEAL FEET
BEGTG	BOTTOM OF EXTENDED FOOTING	LP	LOW POINT
BEG	BEGIN	LS	LANDSCAPE
BF	BASE FLOOD ELEVATION	LT	LEFT
BM	BENCH MARK	LVWMD	LAS VEGAS VALLEY WATER DISTRICT
BSW	BACK OF SIDEWALK	MH	MANHOLE
BVC	BEGINNING OF VERTICAL CURVE	MTR	METER
CAV	CABLE TV	NAP	NOT A PART
C&G	CURB AND GUTTER	NG	NATURAL GRADE
CCAUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING	NTS	NOT TO SCALE
CRFCD	CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT	O/S	OFFSET
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	OC	ON CENTER
CL	CAST IN PLACE	OD	OUTSIDE DIAMETER
CL	CENTERLINE	OVERHD	OVERHEAD POWER LINE
CLV	CITY OF LAS VEGAS	PB	PULL BOX
CM	CITY OF MESQUITE	PC	POINT OF CURVATURE
CMU	CONCRETE MASONRY UNIT	PCC	POINT OF COMPOUND CURVE
CNLV	CITY OF NORTH LAS VEGAS	PI	POINT OF INTERSECTION
CO	CLEAN OUT	PL	PROPERTY LINE
COMM	COMMUNICATIONS	PP	POWER POLE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVE
COND	CONDUIT	PROP	PROPOSED
CONST	CONSTRUCT OR CONSTRUCTION	PT	POINT OF TANGENT
CULV	CULVERT	PVC	POLY VINYL CHLORIDE PIPE
DC	DEPRESSED CURB	PV	POINT OF VERTICAL INTERSECTION
DCSWCS	DESIGN & CONSTRUCTION STD'S FOR WASTE WATER COLLECTION SYSTEMS.	PWMT	PWMENT
D	DEEP/DEPTH	Q	RATE OF FLOW
DI	DROP INLET	R or RAD	RADIUS
DIA	DIAMETER	REINB	REINFORCED CONCRETE BOX
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DMH	DROP MANHOLE	RR	RAILROAD
DOM	DOMESTIC	RT	RIGHT
DRNG	DRAINAGE	ROW	RIGHT-OF-WAY
DRY	DRIVEWAY	SS	SANITARY SEWER
E or ELEC	ELECTRIC	SD	STORM DRAIN
EAC	EDGE OF AC	SHT	SHEET
EL	END OF CURVE	SIGNAL	SIGNAL
ECR	END OF CURB RETURN	SNBO	SOUTHERN NEVADA BUILDING OFFICIALS
EL or ELEV	ELEVATION	SNWA	SOUTHERN NEVADA WATER AUTHORITY
EP	EDGE OF PAVEMENT	STA	STATION
EV	END OF VERTICAL CURVE	SL or SLT	STREET LIGHT
EW	EACH WAY	STD	STANDARD
EX or EXIST	EXISTING	SVZ	SIGHT VISIBILITY ZONE
FAST	FREWAY & ARTERIAL SYSTEM OF TRANSPORTATION	SW	SIDEWALK
FC	FACE OF CURB	T or TEL	TELEPHONE
FF	FINISH FLOOR	TB	TOP OF BERM
FG	FINISH GRADE	TC	TOP OF CURB
FH	FIRE HYDRANT	TRCD	TRAFFIC CONTROL DEVICE
FL	FLOW LINE	TF	TOP OF FOOTING
FO	FIBER OPTICS	TMH	TOP OF MANHOLE
FS	FINISHED SURFACE	TRANS	TRANSITION
FTG	FOOTING	TS	TRAFFIC SIGNAL
GA	GAS	TW	TOP OF WALL
GALV	GALVANIZED	TYP	TYPICAL
GB	GRADE BREAK	UC or U/G	UNDER GROUND
H	HIGH OR HEIGHT	VC	VERTICAL CURVE
HDPE	HIGH DENSITY POLYETHYLENE	VC	VERTIFIED CLAY PIPE
HDWL	HEADWALL	VLT	VALLEY GUTTER
HGL	HYDRAULIC GRADE LINE	WL	WATER LINE
HOR	HORIZONTAL	W/	WITH
HIP	HIGH POINT	W/O	WITHOUT
		W	WIDE OR WIDTH

CLV CITY ENGINEER — ALLEN PAVELKA PE, #9029	DATE
APPROVAL OF THESE PLANS IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHT-OF-WAY AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS, EXCEPT THOSE SPECIFICALLY LISTED UNDER DEVIATIONS FROM STANDARD. THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN DEVIATIONS FROM STANDARDS IN FAVOR OF THE UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS CLARK COUNTY AREA NEVADA	
CITY OF LAS VEGAS DEPARTMENT OF PLANNING	DATE
THIS PLAN MEETS THE APPLICABLE STANDARDS OF THE PLANNING DEPARTMENT	
CITY OF LAS VEGAS FIRE AND RESCUE	DATE
APPROVED FOR CONSTRUCTION	
LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES	
PROJECT NO. _____	FIRST APPROVAL DATE: _____
LVVWD APPROVED FIRE FLOW: TOTAL 2,750 GPM / ON-SITE 2,750 GPM	
SHEETS: C-1, C-2, U-M, U-1, U-2	
SOUTHWEST GAS CORPORATION	DATE
COX COMMUNICATIONS LAS VEGAS, INC.	DATE
NV ENERGY	DATE
NV ENERGY COMPANY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRIC UTILITIES ASSOCIATED WITH THIS PROJECT. NV ENERGY COMPANY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.	
CENTRAL TELEPHONE COMPANY, d/b/a CENTURYLINK	DATE
THE AFFIXED CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.	

1.	COVER AND APPROVALS SHEET.	C-1
2.	NOTE SHEET.	C-2
3.	REMOVAL AND DEMOLITION PLAN.	R-1
4.	MASTER GRADING PLAN.	C-M
5.	GRADING PLAN (1 OF 2).	G-1
6.	GRADING PLAN (2 OF 2).	G-2
7.	DETAIL SHEET (1 OF 2).	D-1
8.	DETAIL SHEET (2 OF 2).	D-2
9.	MASTER UTILITY AND FIRE ACCESS PLAN.	U-M
10.	UTILITY PLAN (1 OF 2).	U-1
11.	UTILITY PLAN (2 OF 2).	U-2
12.	HORIZONTAL CONTROL PLAN.	H-1
13.	TRAFFIC AND STREETLIGHTING PLAN (1 OF 2).	T-1
14.	TRAFFIC AND STREETLIGHTING PLAN (2 OF 2).	T-2

CL OR SECTION LINE	-----	
PROPERTY LINE	-----	
RIGHT OF WAY LINE	-----	
EASEMENT LINE	-----	
SAWTOOTH LINE		
AC PAVEMENT		
CONCRETE PAVEMENT		
	EXISTING	PROPOSED
EDGE OF PAVEMENT		
"A" TYPE CURB		
"L" TYPE CURB		
WALLS		
FENCE		
SIGN		
CONTOUR	(---(2210)---)	2210
SPOT ELEVATION	(12.34) TC	12.34 TC
MANHOLE - SEE DESCRIPTION BELOW		
100W LED STLT		
150W LED STLT		
200W LED STLT		
250W LED STLT		
400W LED STLT		
FIRE HYDRANT		
GATE VALVE		
REDUCER		
CLEAN OUT		
UTILITY BOX/VAULT		
S=SANITARY SEWER, D=STORM DRAIN, E=ELECTRICAL, T=TELEPHONE		

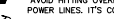


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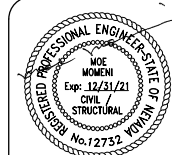
OR

1-800-227-2600

momeni ENGINEERS, LLC

& STRUCTURAL ENGINEER
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117

TEL: (702) 902-2444 | FAX: (702) 248-8495 | MOE@MHMENGINEERS.COM



2/07/20

2/07/20

103114

18

DRAWN B

CHECKED

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**CENTENNIAL
215 PLAZA**

CITY OF LAS VEGAS, NV

COVER AND APPROVALS
SHEET

SHEET:

C-1

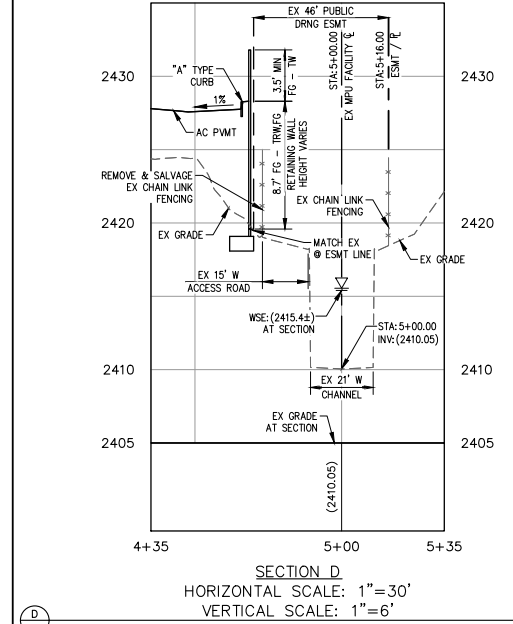
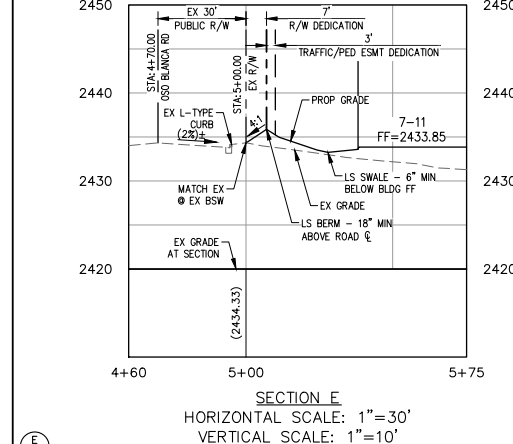
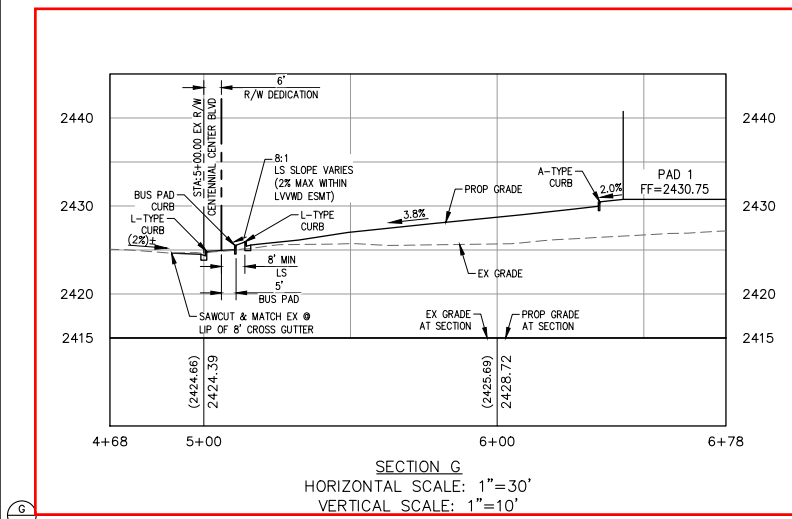
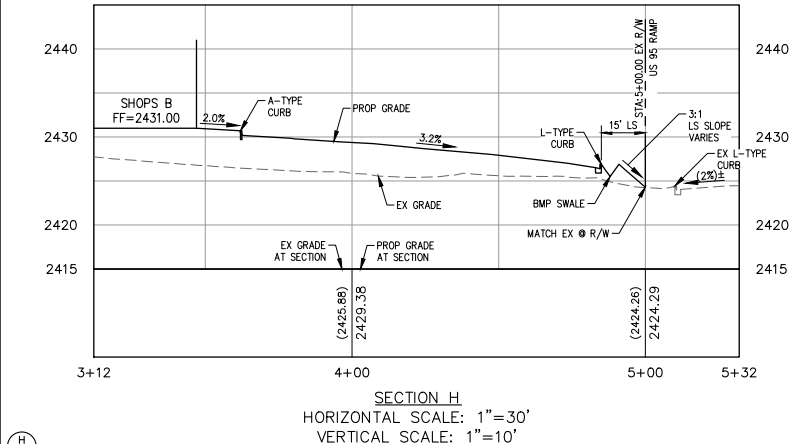
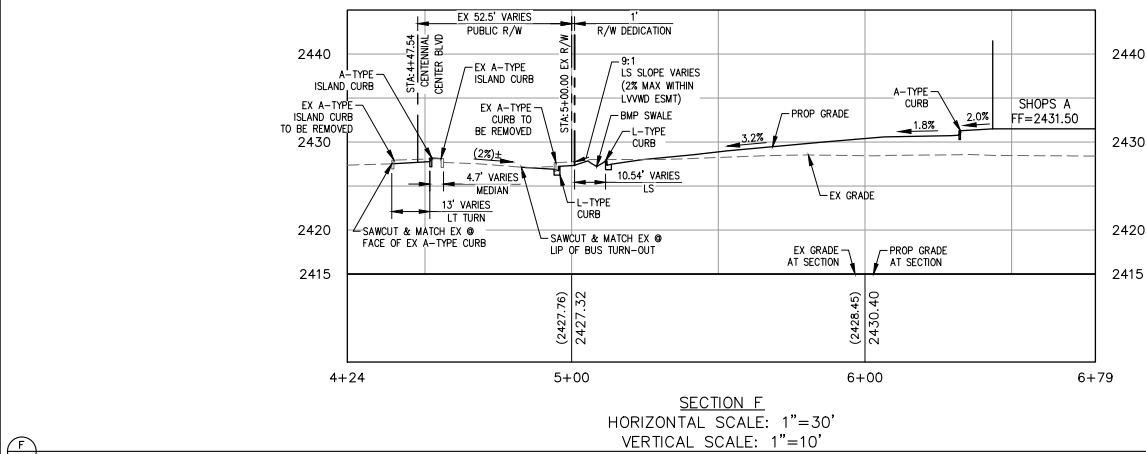
1 OF 14

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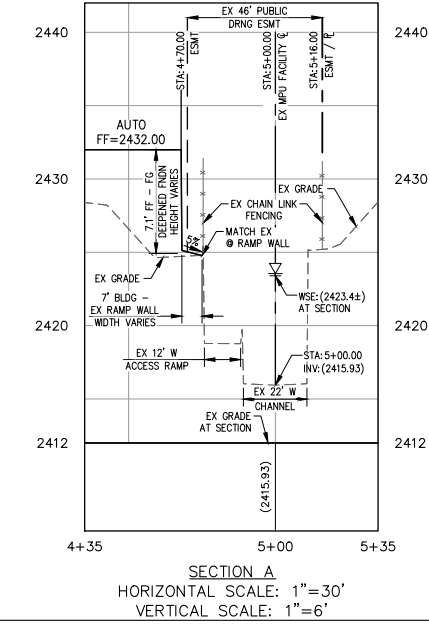
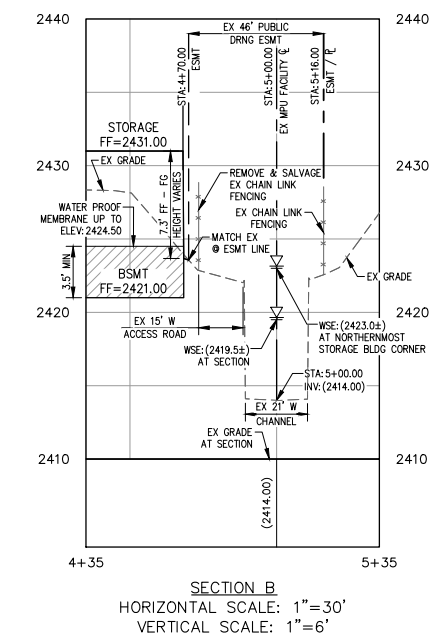
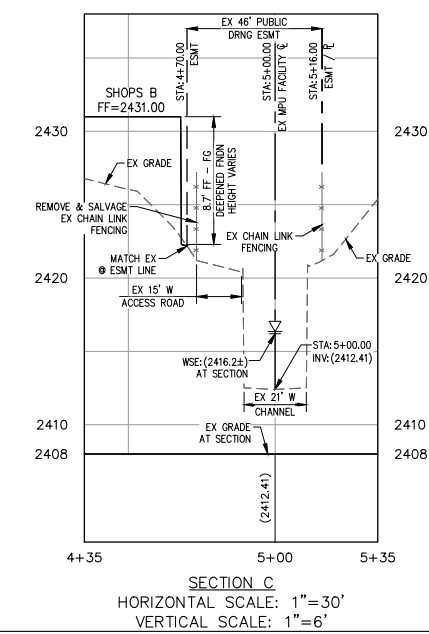
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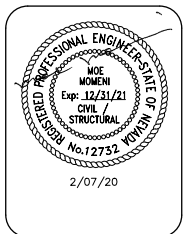
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#	DATE	BY	DESCRIPTION	APPROVAL

momeni ENGINEERS, LLC
CIVIL & STRUCTURAL ENGINEERING
3110 S. DURANGO DRIVE, SUITE 205
LAS VEGAS, NEVADA 89117
TEL: (702) 902-2444 | FAX: (702) 248-8495 | MCE@MMEENGINEERS.COM



2/07/20
DATE
103114
PROJECT NUMBER
LB
DRAWN BY
MM
CHECKED BY

**CENTENNIAL
215 PLAZA**
CITY OF LAS VEGAS, NV
**DETAIL SHEET
(2 OF 2)**

SHEET:
D-2
8 OF 14



CIVIL IMPROVEMENT PLANS

FOR

CHICK-FIL-A RESTAURANT NO. 04548

US 95 & CENTENNIAL

APN: A PORTION OF 125-28-510-001

CITY OF LAS VEGAS, NEVADA

PROJECT CONTACTS

DEVELOPER
CHICK-FIL-A
5200 BUFFINGTON RD
ATLANTA, GA 30349-2998
CONTACT: STEVE SCHWARTZ
(303) 519-4834

CIVIL ENGINEER
KIMLEY-HORN AND ASSOCIATES, INC.
6671 LAS VEGAS BOULEVARD SOUTH, SUITE 320
LAS VEGAS, NEVADA 89119
CONTACT: TREASEA WOLF
(702) 862-3600

PROJECT SURVEYOR
TRUE POSITION LAND SURVEYING-NEVADA LLC
865 BUFFWOOD AVE
LAS VEGAS, NV 89123
CONTACT: CHRISTOPHER ALBERS
(702) 897-2910

PROJECT ARCHITECT
CORE STATES
20101 SOUTHWEST BIRCH ST SUIT 260
NEWPORT BEACH, CA 92660
CONTACT: KEITH GROWE
(T) (949) 432-6860

OWNER
CENTENNIAL 215 PLAZA LLC
8350 WEST SAHARA #210
LAS VEGAS, NV 89117
CONTACT: MATT HUSS
(T) (702) 253-5371

PROJECT INFORMATION

NUMBER OF LOTS: 1
ACREAGE: ±5.86 ACRES
LEASED ACREAGE: ±1.49 ACRES
DISTURBED: ±0.53 ACRES
ZONING: (C-2) GENERAL COMMERCIAL

BENCHMARK

THE ELEVATION DATA SHOWN HEREON IS U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88) CITY OF LAS VEGAS VERTICAL CONTROL NETWORK, RE-OBSERVED 2005-2007, BASED ON:
MONUMENT ID 57V9028N66
SECTION 28, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M.
DESCRIPTION: RIVET & PLATE IN TOP OF CURB AT NW CORNER OF CENTENNIAL CENTER PARKWAY & US 95 SOUTHBOUND OFF RAMP.
ELEVATION: 738.593 METERS
2423.20 U.S. SURVEY FEET

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THE SURVEY SHOWN HEREON IS SOUTH 53°05'47" EAST AS DEFINED BY THE MONUMENTS SHOWN HEREON, BEING THE CONTROL LINE OF CENTENNIAL CENTER BOULEVARD AS DERIVED BY BOOK 95 OF PLATS, PAGE 45, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.

LEGAL DESCRIPTION

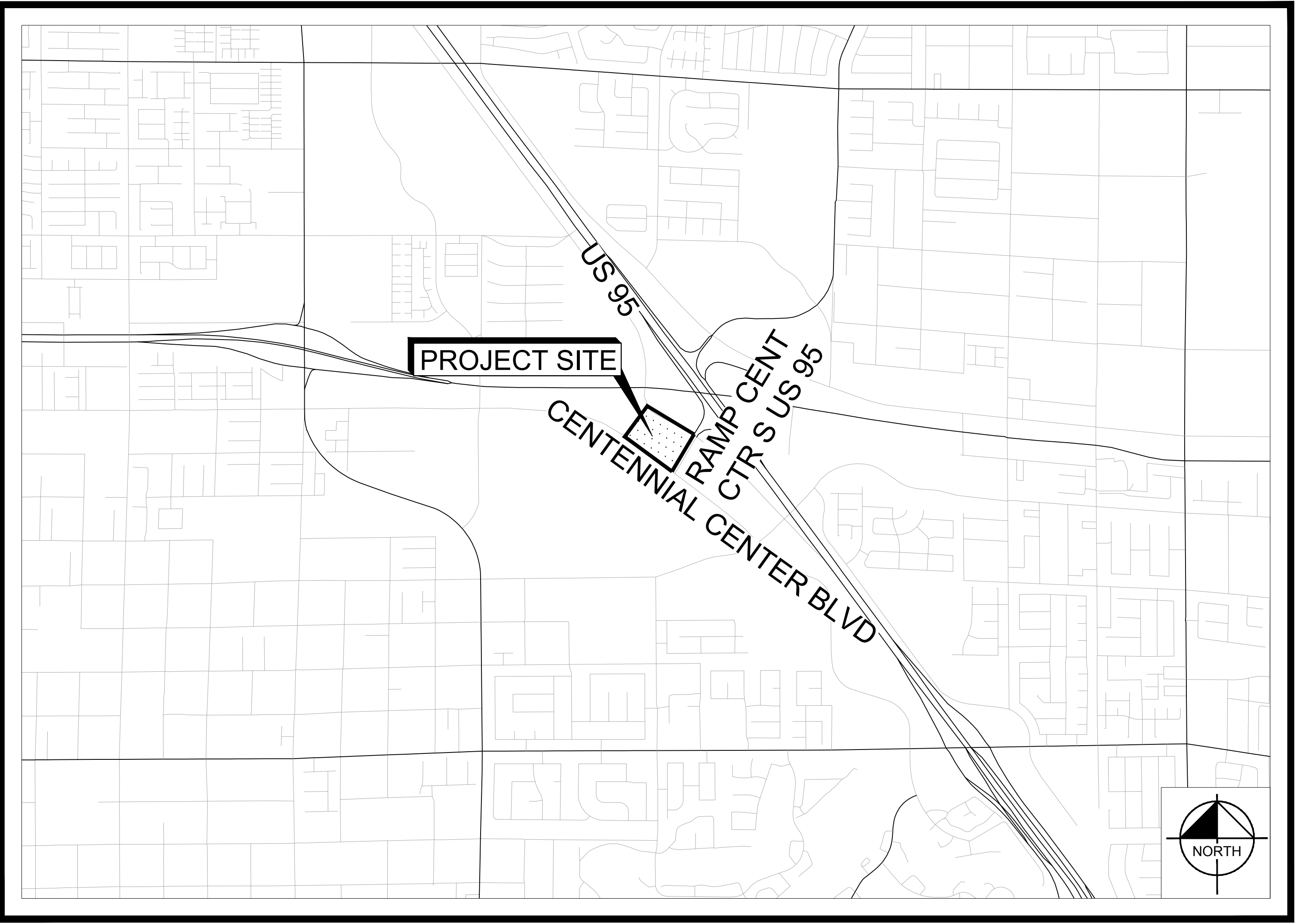
ISSUING OFFICE FILE NUMBER: CENTENNIAL 95 PLAZA FSU #04548
THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF CLARK, STATE OF NEVADA, AND DESCRIBED AS FOLLOWS:
LOT TWO (2) OF CENTENNIAL CENTRE UNIT 2 (A COMMERCIAL SUBDIVISION), AS SHOWN BY MAP THEREOF ON FILE IN BOOK 95 OF PLATS, PAGE 45, IN THE OFFICE OF THE COUNTY RECORDER OF CLARK COUNTY, NEVADA.

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) PANEL NUMBER 32003C1745E, REVISED SEPTEMBER 27, 2002 INDICATE THAT THE PROJECT SITE IS LOCATED IN ZONE 'X'. ZONE 'X' IS DEFINED BY FEMA AS 'AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.'

SHEET INDEX:

PG	SHEET	DESCRIPTION
1	C1.0	COVER SHEET
2	C1.1	GENERAL NOTES
3	C1.2	QUANTITIES
4	C2.0	SITE & HORIZONTAL CONTROL PLAN
5	C3.0	GRADING PLAN
6	C3.1	TYPICAL SECTIONS
7	C4.1	TYPICAL DETAILS 1
8	C4.2	TYPICAL DETAILS 2
9	C4.3	TYPICAL DETAILS 3
10	C5.0	UTILITY PLAN



PROJECT VICINITY MAP
NTS

GEOTECHNICAL REPORT

ALL GRADING AND PAVEMENT SECTIONS SHALL CONFORM TO THE GEOTECHNICAL REPORT:
ENGINEER: TERRACON
DATED: 3/9/2020
PROJECT No: 64205019

UTILITY NOTE

KIMLEY-HORN AND ASSOCIATES TAKES NO RESPONSIBILITY FOR EXISTING UTILITIES SHOWN HEREIN. THE EXISTING UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY OTHER PARTIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND VERIFY THE LOCATIONS AND INVERTS OF THE EXISTING UTILITIES WITHIN THE VICINITY OF CONSTRUCTION ACTIVITIES. IF A CONFLICT IS FOUND TO EXIST, THE CONTRACTOR SHALL COORDINATE THE PROJECT ENGINEER, PROJECT ARCHITECT, AND THE OWNER IMMEDIATELY.

REFERENCE INFORMATION:

TECHNICAL DRAINAGE STUDY: DS5190
TRAFFIC STUDY: TIA 76072
BUILDING PERMIT: XXX
ENTITLEMENTS: VAR-77252, SUP-77188, SUP-77189, SUP-77190, SUP-77193, SUP-77194, SUP-77314, SUP-77315, SDR-77191, TMP-77192

APPROVALS

CITY OF LAS VEGAS
"APPROVAL OF THESE PLANS BY THE CITY ENGINEER IS LIMITED TO THOSE IMPROVEMENTS CONSTRUCTED IN THE DEDICATED RIGHTS-OF-WAY AND/OR DEDICATED EASEMENTS. THIS APPROVAL DOES NOT AUTHORIZE THE CONSTRUCTION OF ANY IMPROVEMENTS THAT DEVIATE FROM ADOPTED STANDARDS AND/OR SPECIFICATIONS EXCEPT THOSE SPECIFICALLY LISTED UNDER "DEVIATIONS FROM STANDARDS" THE ENGINEER SHALL RESOLVE ANY DEVIATION OTHER THAN THOSE LISTED IN "DEVIATION FROM STANDARDS" IN FAVOR OF THE SUMMERLIN IMPROVEMENT STANDARDS AND SPECIFICATIONS CLARK COUNTY AREA NEVADA".

CITY OF LAS VEGAS FIRE AND RESCUE DATE

CENTRAL TELEPHONE COMPANY D/B/A CENTURYLINK DATE

THE AFFIXED CENTRAL TELEPHONE COMPANY D/B/A CENTURYLINK NEVADA APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICTS WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

COX COMMUNICATIONS LAS VEGAS, INC. DATE

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO.: XXXX FIRST APPROVAL DATE:
LVWVD APPROVED FIRE FLOW: TOTAL 1500 GPM/ONSITE 1500 GPM

NV ENERGY DATE

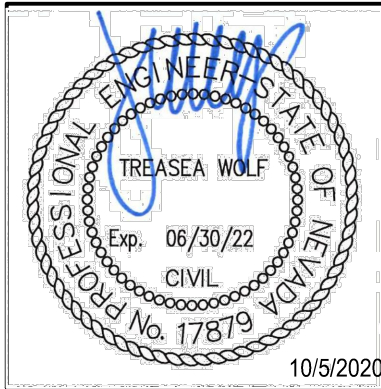
NV ENERGY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NEVADA POWER COMPANY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICTS WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

SOUTHWEST GAS CORPORATION SWG IUD DATE

CLV #:



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998



CHICK-FIL-A
CENTENNIAL 95 PLAZA
6410 CENTENNIAL CENTER BLVD.
LAS VEGAS, NV 89146

FSR# 4548

REVISION SCHEDULE
NO. DATE DESCRIPTION

AGENCY # TBC
PROJECT # 09290802
PRINTED FOR AGENCY SUBMITTAL
DATE 10/5/2021
DESIGN BY JZ
DRAWN BY CJ
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SHEET
COVER SHEET

SHEET NUMBER

C1.0

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CITY OF LAS VEGAS GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS" LATEST EDITION, CLARK COUNTY AREA, NEVADA, LATEST EDITION, THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS" CONSTRUCTION, CLARK COUNTY AREA, NEVADA, LATEST EDITION, THE "SUMMERLIN IMPROVEMENT STANDARDS" FOR WORK IN THE SUMMERLIN AREA, AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY, THE UNIFORM BUILDING CODE, AND LOCAL CITY CODES AND ORDINANCES APPLICABLE, EXCEPT AS NOTED ON THIS SHEET AS "DEVIATIONS FROM STANDARDS".
2. THE EXISTENCE AND LOCATION OF ANY OVERHEAD OR UNDERGROUND UTILITY LINES, PIPES, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. EXISTING UTILITIES ARE SHOWN FROM CLV PLANS LIBRARY ARE APPROXIMATE AND FOR RECORD PURPOSES. EXISTING UTILITIES ARE LOCATED ON PLANS ONLY FOR THE CONVENIENCE OF THE CONTRACTOR. EXISTING UTILITY SERVICE LATERALS MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, LOCATE ALL UNDERGROUND AND OVERHEAD INTERFERENCES WHICH MAY AFFECT HIS OPERATION DURING CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO SAME. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OVERHEAD UTILITIES SO AS TO SAFELY PROTECT ALL PERSONNEL AND EQUIPMENT, AND SHALL BE RESPONSIBLE FOR ALL COST AND LIABILITY IN CONNECTION THEREWITH.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES, STRUCTURES AND STREET IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE, AND ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED SATISFACTORY TO THE CITY ENGINEER AND OWNING UTILITY COMPANY AT THE EXPENSE OF THE CONTRACTOR.
4. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS, ANY REVISIONS SHALL HAVE THE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER.
5. TYPE V CEMENT SHALL BE USED IN ALL OFF-SITE CONCRETE WORK. CONCRETE TO BE 3000 P.S.I. MINIMUM @ 28 DAYS. MIX DESIGNS TO BE APPROVED BY THE CITY, PRIOR TO THE USE ON THE PROJECT.
6. PERMITS ARE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS CONSTRUCTION.
7. EXPANSION JOINTS REQUIRED, MAXIMUM EVERY 300' IN EXTRUDED-TYPE CURB.
8. AC PAVEMENT TO BE ONE-HALF INCH (½) ABOVE UP OF ALL GUTTERS AFTER COMPACTION, EXCEPT AT SIDEWALK RAMP AND CROSS GUTTERS.
9. CURB AND GUTTER DUD TO BE UNACCEPTABLE TO THE CITY OF LAS VEGAS SHALL BE REMOVED AND REPLACED PER STANDARD DRAWING 216.
10. SIDEWALK RAMPS SHALL BE CONSTRUCTED IN EACH QUADRANT OF AN INTERSECTION PER STANDARD DRAWING 235. EXACT LOCATION OF RAMPS MAY BE ADJUSTED IN THE FIELD BY A CITY INSPECTOR.
11. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION. THE EXTENT OF THE TRANSITIONS TO BE AS SHOWN ON PLANS.
12. ALL GRADING WORK SHALL CONFORM TO THE SOILS REPORT AS PREPARED BY TERRACON, PROJECT NO 64185122, MARCH 28, 2019, APPROVED BY THE CITY ENGINEER, AND AS SHOWN ON THESE PLANS.
13. EXACT LOCATION OF ALL SAWCUT LINES MAY BE ADJUSTED OR DETERMINED IN THE FIELD BY A CITY OF LAS VEGAS ENGINEER IF LOCATION ON PLANS IS NOT CLEARLY SHOWN, OR EXISTING PAVEMENT CONDITION REQUIRES RELOCATIONS.
14. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT EXISTING PERMANENT SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE REPLACED AND ADJUSTED PER AVAILABLE RECORDS IN ACCORDANCE WITH N.R.S. STATUTE NO. 625.380 & CITY OF LAS VEGAS TITLE 18, APPENDIX D.
15. UTILITY COMPANY METER BOXES, MANHOLE LIDS, VALVE COVERS, ETC., SHALL BE LOCATED OUT OF DRIVEWAYS, DRIVEWAY APRONS, FLOWLINES, AND CROSS GUTTERS UNLESS WRITTEN APPROVAL IS GRANTED BY THE UTILITY COMPANY AND THE CITY ENGINEER.
16. ALL WALLS, NEW OR EXISTING, ARE ONLY SHOWN ON CIVIL PLANS FOR THE PURPOSE OF REVIEWING GRADING RELATIONSHIPS; FLOOD CONTROL AND SIGHT DISTANCE AT INTERSECTIONS. NEW WALLS REQUIRE A SEPARATE PERMIT AND INSPECTION BY THE BUILDING DEPARTMENT.
17. ASPHALT MIX DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY ENGINEER PRIOR TO THE PLACEMENT OF ASPHALT WITHIN CITY RIGHT OF WAY.
18. CONTRACTOR SHALL ADJUST ALL NEW AND EXISTING INLETS, VALVE BOXES, MANHOLE RIMS, AND SEWER CLEAN OUTS, ETC., TO FINISH GRADE AS APPLICABLE WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
19. MATERIALS, HANDLING AND PLACEMENT OF PORTLAND CEMENT CONCRETE SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NDOT OR THE CLARK COUNTY AREA SPECIFICATIONS (AS APPLICABLE) AND THE PLANS AND DETAILS SHOWN HEREON.
20. WHEN INSTALLING UNDERGROUND FACILITIES THAT REQUIRE UNDERGROUND LOCATING DEVICES SUCH AS MARKER BALLS, LOCATING RIBBON, ETC. THE CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION TO OFFSITE INSPECTION AND TESTING CERTIFYING THAT ALL DEVICES HAVE BEEN PLACED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO THE CONSTRUCTION OF ANY ROAD BASE.
21. AFTER HAUNCHING AND PRIOR TO BACKFILL OPERATIONS WHICH WOULD COVER SANITARY SEWER AND STORM DRAIN FACILITIES, CONTRACTOR IS REQUIRED TO SCHEDULE CLV OPEN-TRENCH UTILITY SURVEY INSPECTION FOR DETERMINATION OF FINAL LOCATION COORDINATES. FACILITIES TO BE LOCATED BY CLV SHALL INCLUDE: AT A MINIMUM THE HORIZONTAL AND VERTICAL (INVERT) LOCATION OF PUBLIC SEWER MANHOLES, STORM DRAIN MANHOLES AND TRANSITION STRUCTURES, STORM DRAIN LATERALS AT THE CONNECTION TO THE STORM DRAIN MAIN AND AT THE CONNECTION TO A DROP INLET, THE CONNECTION OF SEWER SERVICE LATERALS TO THE SEWER MAIN AND WHERE THE SEWER SERVICE LATERALS EXIT THE PUBLIC RIGHT-OF-WAY, SEWER AND STORM DRAIN MAIN ALIGNMENT, INCLUDING DEFLECTION POINTS.
22. CCTV VIDEO INSPECTION IS REQUIRED FOR ALL SEWER AND STORM DRAINS. THE CCTV VIDEO INSPECTIONS NEED TO BE PERFORMED PER THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS LATEST EDITION.
23. A SEPARATE BORING PERMIT IS REQUIRED FOR ALL BORING ACTIVITIES.

REVISED 06/04/2018

CITY OF LAS VEGAS GRADING NOTES

1. IN THE EVENT THAT ANY UNFORESEEN CONDITIONS NOT COVERED BY THESE NOTES ARE ENCOUNTERED DURING GRADING OPERATIONS, THE OWNER/ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTION.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL NECESSARY CUTS AND FILLS WITHIN THE LIMITS OF THIS PROJECT AND THE RELATED OFF-SITE WORK, SO AS TO GENERATE THE DESIRED SUBGRADE, FINISH GRADES AND SLOPES SHOWN.
3. CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ALL EXCAVATION, ADEQUATE SHORING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR TO PREVENT UNDERMINING OF ANY ADJACENT FEATURES OR FACILITIES AND/OR CAVING OF THE EXCAVATION.
4. THE CONTRACTOR IS WARNED THAT AN EARTHWORK BALANCE WAS NOT NECESSARILY THE INTENT OF THIS PROJECT. ANY ADDITIONAL MATERIAL REQUIRED OR LEFTOVER MATERIAL FOLLOWING EARTHWORK OPERATIONS BECOMES THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE GRADING CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE OWNER TO PROVIDE FOR THE REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND ASSOCIATED PERMIT.
6. CONTRACTOR SHALL GRADE TO THE LINES AND ELEVATIONS SHOWN ON THE PLANS WITHIN THE FOLLOWING HORIZONTAL AND VERTICAL TOLERANCES AND DEGREES OF COMPACTION, IN THE AREAS INDICATED:

A. PAVEMENT AREA SUBGRADE	0.1+/-	HORIZONTAL	+0.0' TO -0.1'	SEE SOILS REPORT
B. ENGINEERED FILL	0.5+/-	VERTICAL	+0.1' TO -0.1'	SEE SOILS REPORT

COMPACTION TESTING WILL BE PERFORMED BY THE OWNER OR HIS REPRESENTATIVE.
7. ALL CUT AND FILL SLOPES SHALL BE PROTECTED UNTIL EFFECTIVE EROSION CONTROL HAS BEEN ESTABLISHED.
8. THE USE OF POTABLE WATER WITHOUT A SPECIAL PERMIT FOR BUILDING OR CONSTRUCTION PURPOSES INCLUDING CONSOLIDATION OF BACKFILL OR DUST CONTROL IS PROHIBITED. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION WATER.
9. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
10. IN THE EVENT THAT ANY TEMPORARY CONSTRUCTION ITEM IS REQUIRED THAT IS NOT SHOWN ON THESE DRAWINGS, THE OWNER AGREES TO PROVIDE AND INSTALL SUCH AN ITEM AT THE CONTRACTOR'S OWN EXPENSE AND AT THE DIRECTION OF THE CITY ENGINEER. TEMPORARY CONSTRUCTION INCLUDES DITCHES, BERMS, ROAD SIGNS AND BARRICADES, ETC.

REVISED 04/15/2010



LAS VEGAS VALLEY WATER DISTRICT (LVVWD) STANDARD NOTES

- LVVWD PROJECT NO. TBD
1. NO WORK SHALL BEGIN UNTIL THE PLANS HAVE BEEN APPROVED FOR CONSTRUCTION BY THE LVVWD. FOLLOWING WATER PLAN APPROVAL, NOTICE SHALL BE GIVEN TO THE LVVWD COMMUNICATION SUPPORT CENTER (258-7171) TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. FOR FUTURE INSPECTIONS, NOTICE MUST BE GIVEN BY 2:00 P.M. THE BUSINESS DAY PRIOR TO THE REQUESTED LVVWD INSPECTION. WHEN REQUESTING INSPECTIONS, PLEASE REFER TO THE PROJECT # IDENTIFIED ABOVE.
 2. ALL WORK SHALL CONFORM TO LVVWD STANDARD PLATES, DRAWINGS, AND SPECIFICATIONS, AND TO THE 2010 EDITION OF THE UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR POTABLE WATER SYSTEMS (UDACS), THE LATEST EDITION OF UDACS SHALL SUPERSEDE ANY CONFLICTS CONTAINED IN THE APPROVED DRAWINGS AND/OR SPECIFICATIONS.
 3. ALL WORK, EXCEPT AS MODIFIED BY THESE PLANS OR BY NOTE 2 ABOVE, SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT DRAFT OR EDITION OF THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFFSITE IMPROVEMENT, CLARK COUNTY AREA.
 4. A SINGLE PIPE MATERIAL SHALL BE USED THROUGHOUT THE PROJECT UNLESS OTHERWISE APPROVED BY THE LVVWD.
 5. ALL SERVICE LATERALS TWO (2) INCHES IN DIAMETER AND SMALLER SHALL BE TYPE K COPPER TUBING WITH LVVWD APPROVED SADDLES.
 6. ALL WATER METER BOXES SHALL BE LOCATED OUTSIDE OF DRIVEWAY AREAS.
 7. ALL VALVES SHALL BE LOCATED OUTSIDE OF DRIVEWAYS, VALLEY AND CURB GUTTERS.
 8. ALL WATER AND STORM DRAIN AND SANITARY SEWER CROSSINGS SHALL CONFORM TO SECTION 2.22 OF THE 2010 EDITION OF THE UDACS.
 9. ALL WATER FACILITIES AND APPURTENANCES SHALL BE DISINFECTED, PRESSURE TESTED, AND HAVE AN ACCEPTABLE PASSING HEALTH WATER SAMPLE OBTAINED, PRIOR TO OPERATION AND USE.
 10. THE CONTRACTOR MUST OBTAIN ALL METERS TWO (2) INCHES AND SMALLER FROM LVVWD CENTRAL STORES. TELEPHONE 258-3152 OR 258-3802, TWO (2) WORKING DAYS PRIOR TO METER PICKUP.
 11. ANY INTERRUPTION OF SERVICE MUST BE PERFORMED IN ACCORDANCE WITH UDACS SECTION 3.14.01, AND APPROVED BY THE LVVWD INSPECTION DIVISION PRIOR TO SHUT DOWN. PROPER WRITTEN NOTIFICATION MUST BE GIVEN TO ALL AFFECTED CUSTOMERS.
 12. ALL WATER FACILITY CONSTRUCTION MATERIALS USED MUST BE AS LISTED ON THE LVVWD APPROVED MATERIALS PRODUCT'S LIST FOR NEW FACILITIES, LATEST REVISION, OR SPECIFICALLY APPROVED ON THESE PLANS BY SUBMITTING SHOP DRAWINGS.
 13. TELEPHONE "CALL BEFORE YOU DIG" AT "811" OR 1-800-227-2600.
 14. THE INSTALLATION OF LAS VEGAS VALLEY WATER DISTRICT (LVVWD) MUNICIPAL WATER FACILITIES WITHIN ALL STREETS IS ASSUMED TO BE IN COMPLIANCE WITH THE UNIFORM STANDARDS, INCLUDING THE PLACEMENT OF ASPHALT PAVING STREET SURFACES. ANY REPAIR WORK DONE BY THE LVVWD TO THE MUNICIPAL WATER FACILITIES WILL INCLUDE THE PLACEMENT OF AN APPROPRIATELY SIZED ASPHALT REPAIR PATCH ON THE STREET SURFACE.
 15. ANY DECORATIVE PAVING SURFACE WITHIN THE STREET IS THE RESPONSIBILITY OF THE OWNER'S ASSOCIATION, OR THE INDIVIDUAL PROPERTY OWNERS IF NO OWNER'S ASSOCIATION IS IN EXISTENCE, OR THE AGENCY HAVING JURISDICTION. DECORATIVE SURFACE MATERIALS PLACED WITHIN THE TEN FOOT EASEMENT ABUTTING A PUBLIC OR PRIVATE STREET, IF DISTURBED BY THE LVVWD DURING THE REPAIR OR OPERATION OF ITS FACILITIES, WILL BE REPLACED BY LVVWD WITH AN APPROPRIATELY SIZED PLAIN FINISH CONCRETE PATCH. THE LVVWD WILL NOT RESTORE, AND WILL NOT BE RESPONSIBLE FOR THE RESTORATION OF, ANY DECORATIVE PAVING SURFACE WITHIN THE STREET. THE LVVWD WILL NOT ATTEMPT TO MATCH COLOR OR FINISH OF ANY ADJACENT MATERIALS.
 15. NO LEAD COMPLIANCE NOTE:
TO COMPLY WITH THE FEDERAL SAFE DRINKING WATER ACT, ALL WATER WORKS BRASS PRODUCTS PROPOSED TO BE RELOCATED, OR INSTALLED AS NEW MUST BE INSTALLED WITH THE LEAD FREE APPROVED PRODUCT. THE OLD LEADED PRODUCT MAY NOT BE REUSED.

APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES

PROJECT NO. xxx FIRST APPROVED DATE: _____

SWPPP NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVED ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAYS OF THE CITY OF LAS VEGAS AND CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE OR DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS AND THE LAS VEGAS VALLEY CONSTRUCTION SITE BEST MANAGEMENT PRACTICES MANUAL.
3. TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY; REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.5.
4. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR SHALL MAINTAIN AND UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTION MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVRI00000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

CITY OF LAS VEGAS SEWER NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA, AS AMENDED. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATIONS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS, ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CITY ENGINEER.
3. CHISEL "S" OR "G" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
4. POLYVINYL (PVC) SEWER PIPE SHALL MEET ASTM D-3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE II AGGREGATE BASE.
5. ALL MANHOLES PAVED IN STREETS EIGHTY (80') FOOT R/W AND LARGER SHALL HAVE CONCRETE COLLARS. STREETS LESS THAN EIGHTY (80') FOOT R/W WILL REQUIRE RETROFIT IF PAVING DOES NOT CONFORM TO CITY STANDARDS AT THE MANHOLE.
6. TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO TWELVE INCH (12") DIAMETER. CONNECTIONS TO FIFTEEN INCH (15") OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES. IN LINE "Y" S SHALL BE USED ON LINES TWELVE INCHES (12") OR ABOVE.
7. WATER MAINS SHALL BE PROTECTED IN ACCORDANCE WITH LVVWD STANDARDS WHENEVER A SEWER MAIN CROSSES OVER A WATER MAIN OR THE SEWER IS LESS THAN EIGHTEEN INCH (18") UNDER A WATER MAIN.
8. ALL CONTRACTORS INSTALLING SEWER MAINS THAT WILL BE UNDER THE JURISDICTION OF THE CITY OF LAS VEGAS MUST BE STATE OF NEVADA CLASS "A" CONTRACTORS.
9. THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A VERTICAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS AT ANY LOCATION. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED OR REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY OF LAS VEGAS.
10. INSTALLATION OF CURVED SEWER REQUIRES THE USE OF C-900 PIPE WHICH ALLOWS FOR PIPE DEFLECTION AT THE JOINTS.

DEVIATION FROM STANDARDS

NONE

LAS VEGAS FIRE & RESCUE GENERAL NOTES FOR HYDRANTS AND ACCESS

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LAS VEGAS FIRE AND RESCUE ADOPTED FIRE CODE ORDINANCE #6631 FOR HYDRANT SPECIFICATIONS AND HYDRANT INSTALLATION SPECIFICATIONS.
2. ONLY FIRE HYDRANTS THAT ARE ON THE LAS VEGAS VALLEY WATER DISTRICT'S - APPROVED PRODUCTS LIST ARE ALLOWED TO BE INSTALLED.
3. A PERMIT IS REQUIRED FROM LAS VEGAS FIRE AND RESCUE FOR THE INSTALLATION OF ON-SITE WATER LINES AND FIRE HYDRANTS. THE PERMIT AND CONTRACTORS MATERIAL TEST CERTIFICATE FOR UNDERGROUND PIPING FORM SHALL BE OBTAINED FROM THE FIRE PROTECTION ENGINEER BEFORE COMMENCEMENT OF WORK. [FC 105.6.15]
4. ON ANY RESIDENTIAL OR COMMERCIAL INSTALLATIONS, FIRE HYDRANTS SHALL BE INSTALLED AND FIRE APPARATUS ACCESS ROADS SHALL BE MAINTAINED BEFORE COMMENCEMENT OF ANY COMBUSTIBLE CONSTRUCTION. ALL FIRE HYDRANTS SHALL BE IN GOOD WORKING ORDER AND SHALL BE CAPABLE OF DELIVERING THE REQUIRED FIRE FLOW. [FC 3310, 3312]
5. TO IDENTIFY THE FIRE HYDRANT LOCATIONS, THE CONTRACTOR SHALL PLACE A BLUE REFLECTIVE MARKER AT THE CENTER LINE OF THE STREET ADJACENT TO THE FIRE HYDRANTS. [FC 507.5.7.3]
6. ALL UNDERGROUND INSPECTIONS, PRESSURE AND FLUSH VERIFICATIONS OF ALL FIRE HYDRANTS AND FIRE LINES, SHALL BE CONDUCTED BEFORE COVERING THE LINES. CENTER LOADING IS ACCEPTABLE FOR THE HYDRO TESTS WITH PRIOR FIRE PREVENTION APPROVAL. [FC 106.3]
7. ALL ON-SITE UNDERGROUND WATER MAINS AND MATERIALS SHALL BE U.L. LISTED, A.W.W.A APPROVED AND SHALL BE RATED FOR THE APPROPRIATE WORKING PRESSURE. [FC 507.2.1, NFPA 24]
8. PAINTING OF CURBS, FIRE HYDRANTS, PADS, PROTECTION OF FIRE HYDRANTS FROM PHYSICAL DAMAGE, AND ALL OTHER WORK NECESSARY PER PLANS SHALL BE COMPLETED BEFORE APPROVAL BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION. [FC 507]
9. PRIVATE HYDRANTS SHALL BE PAINTED RED. [FC 507.5.7.1]
10. PRIOR TO THE FINAL OCCUPANCY, A FIRE FLOW TEST SHALL BE WITNESSED BY LAS VEGAS FIRE AND RESCUE, FIRE PREVENTION DIVISION TO VERIFY AVAILABILITY OF THE REQUIRED FIRE FLOW. [FC 507]
11. FIRE HYDRANT SPACING SHALL BE AS FOLLOWS: [FC C102]

RESIDENTIAL -	500 FT UNSPRINKLERED; 600 FT SPRINKLERED.
COMMERCIAL -	300 FT UNSPRINKLERED; 400 FT SPRINKLERED.
12. WHERE THE WATER MAINS ARE EXTENDED ALONG STREETS OR NEW STREETS ARE INSTALLED WHERE FIRE HYDRANTS ARE NOT NEEDED FOR PROTECTION OF THE STRUCTURES, FIRE HYDRANTS SHALL BE INSTALLED AT A MAXIMUM OF 1,000 FT SPACING, TO PROVIDE FOR TRANSPORTATION HAZARDS. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS OR HAVE FOUR (4) OR MORE TRAFFIC LANES AND HAVE A TRAFFIC COUNT OF MORE THAN 30,000 PER DAY, HYDRANTS ARE REQUIRED ON EACH SIDE OF THE STREET SPACED AT 500 FT ON AN ALTERNATING BASIS. [FC C102.8]
13. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN THE RADIUS OF A CUL-DE-SAC OR WITHIN 20FT OF THE PERIMETER OF THE RADIUS OF THE CUL-DE-SAC.
14. NO FIRE HYDRANTS SHALL BE LOCATED WITHIN 6 FT OF ANY CURB RETURN, DRIVEWAY, POWER POLE, STREETLIGHT OR ANY OTHER OBSTRUCTION [FC C102.10]
15. A MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A ONE-TWO FAMILY DWELLING SHALL NOT EXCEED 300 FT, AS MEASURED BY AND APPROVED ROUTE. [FC C102.4]
16. THE MAXIMUM DISTANCE FROM A FIRE HYDRANT TO A FIRE DEPARTMENT CONNECTION (FDC) SHALL NOT EXCEED 100 FT, AS MEASURED BY AN APPROVED ROUTE [FC C102.7]
17. THE MAXIMUM DISTANCE FROM A HYDRANT TO THE END OF A DEAD-END STREET SHALL NOT EXCEED 200 FT. [FC C102.6]
18. TWO (2) SOURCES OF SUPPLY ARE REQUIRED WHENEVER THERE IS 4 OR MORE FIRE HYDRANTS/SPRINKLER LEAD-INS ARE INSTALLED ON A SINGLE SYSTEM. FOR SYSTEMS REQUIRED TO HAVE TWO (2) SOURCES OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 2 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. FOR SYSTEMS PERMITTED TO HAVE ON SOURCE OF WATER SUPPLY, SECTIONAL CONTROL VALVES SHALL BE INSTALLED SO THAT NO MORE THAN 3 FIRE HYDRANTS AND/OR FIRE SPRINKLER LEAD-INS CAN BE OUT OF SERVICE DUE TO A SERVICE INTERRUPTION. [FC C104]
19. ALL FIRE APPARATUS ACCESS ROADS SHALL BE PAVED TO PROVIDE ALL WEATHER DRIVING CAPABILITIES, AND SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF THE FIRE APPARATUS. [FC 503.2.3]
20. THE GRADIENT FOR THE FIRE APPARATUS ACCESS ROADS SHALL NOT EXCEED 12% ANGLES OF APPROACH AND ANGLES OF DEPARTURE SHALL NOT EXCEED 6% FOR 25 FT PRIOR TO OR AFTER THE GRADE CHANGE. ADJACENT TO THE STRUCTURES GRADIENT SHALL NOT EXCEED 6%. [FC 503.2.7, 503.2.8]
21. THE TURNING RADIUS OF THE FIRE APPARATUS ACCESS ROADS SHALL BE NO LESS THAN 52 FT OUTSIDE AND 28 FT INSIDE TURNING RADIUS. [FC. 503.2.4]
22. VERTICAL CLEARANCE OF ALL FIRE APPARATUS ACCESS ROADS SHALL NOT BE LESS THAN 13FT 6 INS. [FC 503.2.1]
23. FIRE DEPARTMENT ACCESS ROADS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF NOT LESS THAN 33FT WITH PARKING ON BOTH SIDES MEASURED TO FACE OF CURB. NOT LESS THAN 28 FT WIDE WITH PARKING RESTRICTED TO ONE SIDE MEASURED TO FACE OF CURB. NOT LESS THAN 24 FT WIDE WITH NO PARKING ON EITHER SIDE MEASURED TO THE FACE OF CURB. FIRE LANES THROUGH PARKING LOTS SHALL BE NOT LESS THAN 24 FT. [FC. 503.2.1.1]
24. A FIRE APPARATUS ACCESS ROAD SHALL BE REQUIRED WHEN ANY PORTION OF AN EXTERIOR WALL OF THE FIRST STORY IS LOCATED MORE THAN 150 FT FROM A FIRE DEPARTMENT VEHICLE ACCESS. [FC 503.1.1]
25. APPROVED SECONDARY FIRE APPARATUS ACCESS SHALL BE PROVIDED FOR 200 OR MORE DWELLING UNITS, ROAD(S) WITH DEAD-ENDS OR WITH A SINGLE POINT OF ACCESS IN EXCESS OF 600 FT. CLV REGULATION AND MOU.
26. ALL DEAD-END FIRE APPARATUS ROADS AND/OR FIRE LINES, PUBLIC OR PRIVATE, IN EXCESS OF 150 FT IN LENGTH SHALL BE PROVIDED WITH AN APPROVED TURN AROUND HAVING A MINIMUM DIAMETER OF 81 FT. CLV REGULATION.
27. ALL FIRE APPARATUS ACCESS ROADS SHALL BE MARKED BY PLACING APPROVED SIGNS AT THE START OF THE DESIGNATED FIRE LANE, ONE SIGN AT THE END OF THE FIRE LANE AND WITH SIGNS AT INTERVALS OF 100 FT ALONG THE DESIGNATED FIRE LANES. SIGNS TO BE PLACED ON BOTH SIDES OF AN ACCESS ROADWAY IF NEEDED TO PREVENT PARKING ON EITHER SIDE. SIGNS TO BE INSTALLED NO HIGHER THAN 10 FT OR LESS THAN 6 FT FROM THE ROADWAY LEVEL. THE CURB ALONG OR ON THE PAVEMENT OR CEMENT IF NO CURB IS PROVIDED) SHALL BE PAINTED WITH A RED WEATHER RESISTANT PAINT IN ADDITION TO THE SIGNS. [FC 503.3]
28. ELECTRICALLY CONTROLLED ACCESS GATES SHALL BE PROVIDED WITH AN APPROVED EMERGENCY VEHICLE DETECTOR/RECEIVER SYSTEM. [FC 503.6]
29. WHERE STREETS ARE PROVIDED WITH MEDIAN DIVIDERS, OR HAVING FOUR OR MORE TRAVEL LANES AND A TRAFFIC COUNT OF MORE THAN 30,000 VEHICLES PER DAY, ALL HYDRANTS BEING UTILIZED TO DELIVER FIRE FLOW TO THE PROPOSED LOCATION SHALL BE LOCATED ON THE SAME SIDE OF THE STREET OF THE PROPOSED DEVELOPMENT. CLV REGULATION.

CITY OF LAS VEGAS STREETLIGHT NOTES

1. ALL STREET LIGHTING INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE STREET LIGHTING PLANS, THE "UNIFORM STANDARD SPECIFICATION FOR PUBLIC WORKS' CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA", LATEST REVISION (USSF), AND THE "UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" (USD), LATEST REVISION.
2. DESIGN PROFESSIONAL AND CONTRACTOR SHALL VERIFY CITY'S LATEST LED FIXTURE SPECIFICATIONS AND APPROVED FIXTURES PER CLV WEBSITE, UNDER BUILDING AND SAFETY FORMS, PRIOR TO ORDERING MATERIALS.
3. NO DEVIATION OF STREET LIGHT, PULL BOX, CONDUITS, ETC., LOCATIONS SHALL BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE TRAFFIC AND CITY ENGINEER. ANY DEVIATION FROM THE PLAN LOCATION WILL REQUIRE COMPLIANCE WITH SECTION 623.3 OF THE USS.
4. ALL EXISTING STREET LIGHTING SHALL REMAIN OPERATIONAL DURING CONSTRUCTION IN ACCORDANCE WITH SECTION 623.6.03.01 OF THE USS.
5. ALL EMPTY CONDUIT SHALL HAVE AT LEAST ONE GREEN NO. #8 AWG WIRE INSTALLED AS TRACER WIRE IN ACCORDANCE WITH SECTION 623.6.02.01 OF THE USS PRIOR TO BACKFILLING AND FINAL INSPECTION.
6. ANY STRUCTURE SUCH AS BLOCK WALLS, CHAIN LINK FENCES, RETAINING WALLS, ETC., SHALL LEAVE A MINIMUM CLEARANCE IN COMPLIANCE WITH USD NO. 320A WHEN POLE IS INSTALLED BEHIND SIDEWALK, AND SHALL AT NO TIME COMPLETELY ENCLOSE THE STREET LIGHTING POLE.
7. AS-BUILT DRAWINGS SHALL BE SUPPLIED TO THE TRAFFIC ENGINEERING DIVISION PRIOR TO ANY PRE-FINAL INSPECTION. THE AS-BUILT DRAWINGS NEEDS TO BE STAMPED AS-BUILT AND SIGNED BY THE PREPARER.
8. SERVICE POINTS SHALL BE COORDINATED WITH NV ENERGY, AND WHEREVER POSSIBLE, BE LOCATED NEAR THE CENTER OF THE CIRCUIT. SERVICEPOINTS SHALL BE SHOWN ON THE PLANS.
9. WHEREVER THERE IS AN OVERHEAD UTILITY THAT MAY CONFLICT WITH THE INSTALLATION OF STREETLIGHTING CIRCUITS AND/OR POLES, THESE CONFLICTS MUST BE RESOLVED BETWEEN THE DEVELOPER AND THE UTILITIES INVOLVED BEFORE STREETLIGHT BASES ARE INSTALLED. AT NO EXPENSE TO THE CITY OF LAS VEGAS.
10. THE CONTRACTOR SHALL FURNISH COMPLETE CONDUIT, WIRE, ETC. FROM SERVICE TO TRANSFORMERS AND CONTROL SYSTEMS IF REQUIRED ON THE PLANS.

REVISED JUNE 4, 2018 (LD VERSION)

CITY OF LAS VEGAS TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING, BARRICADING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. THE STREET SIGN CONTRACTOR SHALL OBTAIN STREET NAMES AND BLOCK NUMBERING FROM THE PLANNING DEPARTMENT PRIOR TO CONSTRUCTION.
3. BEFORE ANY WORK IS STARTED IN THE RIGHT-OF-WAY, THE CONTRACTOR SHALL INSTALL ALL ADVANCE WARNING SIGNS FOR THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL INSTALL TEMPORARY STOP SIGNS AT ALL NEW STREET ENCROACHMENTS INTO EXISTING CITY STREETS WHERE WARRANTED IMMEDIATELY AFTER FIRST GRADING WORK IS ACCOMPLISHED, AND SHALL MAINTAIN SAID SIGNS UNTIL PERMANENT SIGNS ARE INSTALLED.
4. WHEN A DESIGNATED "SUGGESTED ROUTE TO SCHOOL" IS ENCLOSED UPON BY A CONSTRUCTION WORK ZONE AND PUBLIC WORKS STAFF IDENTIFIES A NEED FOR STUDENTS TO BE ASSISTED IN THE SAFE CROSSING THROUGH THAT WORK ZONE, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A QUALIFIED "CROSSING GUARD". THE GUARD SHALL BE PRESENT FOR THE FULL DURATION OF TIME THAT CHILDREN ARE LIKELY TO BE PRESENT.
5. IF THE IMPROVEMENTS NECESSITATE THE OBLITERATION, TEMPORARY OBSTRUCTION, TEMPORARY REMOVAL OR RELOCATION OF ANY EXISTING TRAFFIC PAVEMENT MARKING, SUCH PAVEMENT MARKING SHALL BE RESTORED OR REPLACED WITH LIKE MATERIALS TO THE SATISFACTION OF THE CITY TRAFFIC ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL PERMANENT SIGNS SHOWN ON THE PLANS. ALL NEW TRAFFIC SIGNS SHALL UTILIZE TYPE XI RETROREFLECTIVE SHEETING IN ACCORDANCE WITH CCAUSS 627 AND 716 AND SHALL HAVE AN ANTI-GRAFFITI PROTECTIVE OVERLAY FILM THAT IS A MATCHING COMPONENT TO, AND OF THE SAME MANUFACTURER AS THE RETROREFLECTIVE SHEETING TO WHICH IT IS APPLIED. STREET NAME SIGNS SHALL CONFORM IN THEIR ENTIRETY TO CURRENT CITY STANDARDS. ALL OTHER SIGNS SHALL BE STANDARD SIZE UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL SIGN POSTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT CITY STANDARDS.
7. WHEN A PROPOSED STREET LIGHT STANDARD IS LOCATED WITHIN FIVE (5') FEET OF ANY PROPOSED SIGN SHOWN ON THE PLANS TO BE MOUNTED ON A SIGNPOST, THE SIGN SHALL BE MOUNTED ON THE STREET LIGHT STANDARD AND THE SIGNPOST SHALL BE ELIMINATED.
8. ALL PERMANENT TRAFFIC CONTROL DEVICES CALLED FOR HEREON SHALL BE IN PLACE AND IN FINAL POSITION PRIOR TO ALLOWING ANY PUBLIC TRAFFIC ONTO THE PORTIONS OF THE ROAD(S) BEING IMPROVED HERE UNDER, REGARDLESS OF THE STATUS OF COMPLETION OF PAVING OR OTHER OFF-SITE IMPROVEMENTS CALLED FOR BY THESE PLANS.
9. STREET SIGNS AND STOP SIGNS SHALL BE INSTALLED PER CITY STANDARD SPECIFICATIONS FOR PLACEMENT OF STREET NAME SIGNS.
10. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES AND FLAGGERS TO INSURE THE SAFETY OF THE PUBLIC IN OR AROUND THE WORK AREA. THE CONTRACTOR SHALL HAVE A CERTIFIED ATSSA TRAFFIC CONTROL TECHNICIAN OR IMSA WORK ZONE SAFETY SPECIALIST SET UP, MAINTAIN AND/OR REMOVE ALL TRAFFIC CONTROL DEVICES IN THE CITY OF LAS VEGAS RIGHT OF WAY.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE EXPEDITED TO COMPLETION SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING REGIONAL TRANSPORTATION COMMISSION OF SOUTHERN NEVADA (RTO), IF THE CONSTRUCTION INTERRUPTS OR RELOCATES A BUS STOP OR HAS AN ADVERSE EFFECT ON BUS SERVICE ON THAT STREET TO ARRANGE FOR TEMPORARY RELOCATION OF STOP.
13. GUARDS SHALL BE OBTAINED BY CONTACTING THE METROPOLITAN POLICE DEPARTMENT SPECIAL EVENTS UNIT (PHONE # 828-3442) WHO WILL PROVIDE OFFICERS PROPERLY TRAINED IN TRAFFIC CONTROL. FEES FOR THE USE OF THESE OFFICERS SHALL BE SET BY METRO AND WILL BE PAID BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ALL ARRANGEMENTS WITH METRO.
14. ANY WORK WITHIN 300' OF A SIGNALIZED INTERSECTION WILL BE NIGHT WORK, UNLESS DIRECTED BY THE CITY OF LAS VEGAS TRAFFIC ENGINEER.
15. THE CONTRACTOR SHALL CONTACT THE TRAFFIC ENGINEERING DIVISION (TRANSPORTATION SECTION) THROUGH THE PROJECT'S OFFSITE INSPECTOR PRIOR TO INITIATING PAVING TO RECEIVE DIRECTION FOR ANY PERMANENT OR TEMPORARY MODIFICATIONS TO THE APPROVED DRAWINGS REGARDING FINAL PAVEMENT TRANSITIONS, MARKINGS AND SIGNING THAT ARE REQUIRED TO MATCH ADJACENT ROADWAY SEGMENTS. THE CONTRACTOR SHALL PROVIDE A DRAWING FOR APPROVAL BY THE TRAFFIC ENGINEERING DIVISION DEPICTING ANY ADJUSTMENTS TO THE FINAL PAVEMENT MARKINGS AND SIGNAGE, WHICH MAY INCLUDE OMITTING, ADDING OR MODIFYING PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNS SUCH THAT ADEQUATE TRANSITIONS AND LANE TERMINATIONS BETWEEN ADJACENT ROADWAY SEGMENTS ARE CONSTRUCTED.

REVISED JUNE 4, 2018

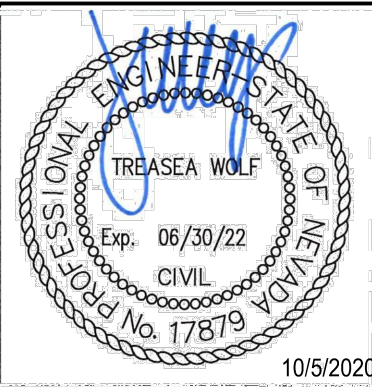
SOUTHERN NEVADA- SOUTHWEST GAS CORPORATION GENERAL NOTES

1. IN THE EVENT OF NATURAL GAS EMERGENCIES CALL 911 AND 1-877-860-6020
2. MINIMUM HORIZONTAL AND VERTICAL CLEARANCES BETWEEN NATURAL GAS FACILITIES AND ANY UNDERGROUND UTILITIES AND/OR STRUCTURES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, STORM DRAIN, COMMUNICATIONS, AND ELECTRIC SHALL BE AT LEAST 12-INCHES OR GREATER AS DICTATED BY LOCAL CODES AND STANDARDS.

ANY DEVIATION FROM SPECIFIED MINIMUM CLEARANCES MUST BE APPROVED BY ALL AFFECTED UTILITIES AND/OR MUNICIPALITIES.

3. FOR VALVE ADJUSTMENT CONTACT 702-668-6107 48 HOURS PRIOR TO CONSTRUCTION
4. IN THE EVENT OF NATURAL GAS CONFLICT WITH PROPOSED UTILITIES AND/OR STRUCTURES CONTACT 702-365-2099

CAUTION: HIGH PRESSURE GAS! CALL SOUTHWEST GAS AT 702-400-1789 FOR STANDBY WHEN EXCAVATING OVER OR NEAR HIGH PRESSURE GAS LINES 48 HOURS PRIOR TO CONSTRUCTION		
APPROVED FOR CONSTRUCTION		
SOUTHWEST GAS CORPORATION	SWG IUD	DATE



CHICK-FIL-A
CENTENNIAL 95 PLAZA
6410 CENTENNIAL CENTER BLVD.
LAS VEGAS, NV 89149

FSR# 4548

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
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AGENCY #	TBD
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PROJECT #	092908028
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PRINTED FOR	AGENCY SUBMITTAL
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DATE	10/5/2020
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DESIGN BY	JZ
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DRAWN BY	CT
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SHEET

GENERAL NOTES

SHEET NUMBER

CLV #:

C1.1

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CONSTRUCTION NOTES QUANTITIES

		UNIT	PRIVATE	PUBLIC
①	CONSTRUCT "L" TYPE CURB & GUTTER PER DETAIL 17 OPTION B, SHEET C4.2	LF	459	—
②	CONSTRUCT "A" TYPE CURB PER DETAIL 7, SHEET C4.1	LF	384	—
③	CONSTRUCT SIDEWALK PER DETAIL 12, SHEET C4.1	SF	2290	—
④	CONSTRUCT CONCRETE PAVING DRIVE—THRU LANE PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 20, SHEET C4.2	SF	784	—
⑤	CONSTRUCT STANDARD AC PAVEMENT PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 16, SHEET C4.2	SY	343	—
⑥	DRIVE—THRU ISOMETRIC PLAN VIEW PER DETAILS 13 & 14, SHEET C4.2	SF	240	—
⑦	CONSTRUCT 0" CURB	SF	36	—
⑧	CONSTRUCT 0" TO 6" TRANSITION PER DETAIL 15, SHEET C4.2	LF	117	—
⑨	CONSTRUCT CONCRETE/AC EDGE PER DETAIL 19, SHEET C4.2	LF	59	—
⑩	CONSTRUCT ONSITE ADA RAMP PER DETAIL 10, SHEET C4.1	EA	1	—
⑪	CONSTRUCT CONTRACTION JOINT (C-J) PER DETAIL 18, SHEET C4.2	LF	96	—
⑫	CONSTRUCT EXPANSION JOINT (E-J) PER DETAIL 27, SHEET C4.3	LF	48	—
⑬	DRIVE—THRU ISLAND CURB PER DETAIL 23, SHEET C4.3	EA	1	—
⑭	CONSTRUCT SIDEWALK WITH 6" CURB SECTION PER DETAIL 13, SHEET C4.1	SF	261	—
⑮	CONSTRUCT TRUNCATED DOMES PER DETAIL 11, SHEET C4.1	EA	—	—
⑯	INSTALL CURB—O—LET DRAINS AND OUTLET AT CURB FACE PER DETAIL 24, SHEET C4.3	EA	2	—
⑰	CONSTRUCT 2.0' CURB OPENING PER DETAIL 22, SHEET C4.2	EA	1	—
⑱	PROPOSED LANDSCAPING PER SEPARATE LANDSCAPE PLANS			
⑲	MATCH EXISTING			
⑳	EXISTING SIGHT VISIBILITY ZONE			

ON-SITE SIGNAGE & TRAFFIC QUANTITIES

		UNIT	PRIVATE	PUBLIC
①	INSTALL "WATCH FOR VEHICLES" SIGN PER DETAIL 6 ON SHEET C4.1	EA	2	—
②	INSTALL "PEDESTRIAN CROSSING" SIGN PER DETAIL 6 ON SHEET C4.1	EA	2	—
③	INSTALL ADA ACCESSIBLE SIGN PER DETAIL 6, SHEET C4.1	EA	2	—
④	INSTALL FLAG POLE PER SIGN PLAN DONE BY CFA	EA	4	—
⑤	INSTALL DIRECTIONAL ARROWS PER DETAIL 1, SHEET C4.1	EA	17	—
⑥	INSTALL ADA ACCESSIBLE STRIPING PER DETAIL 5, SHEET C4.1	SF	324	—
⑦	INSTALL PAINTED ACCESSIBILITY SYMBOL PER DETAIL 4, SHEET C4.1	EA	2	—
⑧	INSTALL MENU BOARD PER DETAIL 25, SHEET C4.3	EA	2	—
⑨	INSTALL DIRECTIONAL SIGNAGE PER DETAIL 6, SHEET C4.1	EA	4	—
⑩	INSTALL CROSSWALK PER DETAIL 9, SHEET C4.1	EA	2	—
⑪	ADD MULTI-LANE DIRECTIONAL GRAPHICS PER DETAIL 8, SHEET C4.1	EA	1	—
⑫	LANDSCAPE			

ON-SITE SEWER QUANTITIES

		UNIT	PRIVATE	PUBLIC
①	CONNECT TO EXISTING 6" LATERAL (PRIVATE)—CONTRACTOR TO VERIFY INVERT PRIOR TO CONSTRUCTION	EA	1	—
②	INSTALL 6" PVC SDR-35 SEWER LATERAL PER DCSWCS SD-21 (PRIVATE)	LF	21	—
③	INSTALL 6" CLEAN OUT WITH TRAFFIC RATED LID PER DCSWCS SD-24 (PRIVATE)	EA	2	—
④	INSTALL WYE & 45° BEND PER DCSWCS SD-21 (PRIVATE)	EA	2	—
⑤	END CIVIL SEWER LATERAL — SEE PLUMBING PLANS FOR CONTINUATION	EA	—	—
⑥	INSTALL 1500 GAL GREASE INTERCEPTOR—JENSEN MODEL #P1500EE-G OR EQUIVALENT—SEE DETAIL 27, SHEET C4.3 (PER PLUMBING PLAN OR SEPARATE PERMIT)	EA	1	1
⑦	INSTALL SAMPLE BOX WITH PIPE CONNECTION—JENSEN MODEL 2432-Z OR EQUIVALENT—SEE DETAIL 28, SHEET C4.3	EA	1	1

MASTER LEGEND

	STREET CENTERLINE		PROPOSED ROAD STRIPING
	PROPERTY LINE		PROPOSED PARKING STRIPING
	ADJACENT PROPERTY LINE		EXISTING CONTOUR
	EXISTING LOT LINE		PROPOSED CONTOUR
	EXISTING EASEMENT		CUT FILL TRANSITION
	EXISTING PATENT EASEMENT		ADA ACCESS
	EXISTING PROPERTY LINE TO BE VACATED		SAWCUT LIMITS
	EXISTING PATENT EASEMENT TO BE VACATED		RIDGE
	EXISTING WALL		GRADE BREAK
	PROPOSED RETAINING & SCREEN WALL		FLOW LINE
	PROPOSED SCREEN WALL		EXISTING STORM DRAIN
	EXISTING FENCE		EXISTING STORM DRAIN TO BE REMOVED
	PROPOSED FENCE		EXISTING SEWER LINE
	EXISTING BUILDING		EXISTING WATER LINE
	PROPOSED BUILDING		EXISTING GAS LINE
	PROPOSED CONCRETE BARRIER RAIL		PROPOSED SEWER
	EXISTING CURB & GUTTER		PROPOSED SEWER LATERAL
	EXISTING CURB		PROPOSED WATER LINE
	EXISTING SIDEWALK		PROPOSED STREET LIGHT CONDUIT
	EXISTING VALLEY GUTTER		PROPOSED TRAFFIC CONDUIT
	PROPOSED CURB & GUTTER		EXISTING SIGN
	PROPOSED CURB		PROPOSED SIGN
	PROPOSED SIDEWALK		EXISTING HANDICAP PARKING
	EXISTING EDGE OF PAVEMENT		PROPOSED HANDICAP PARKING
	PROPOSED EDGE OF PAVEMENT		EXISTING STORM DRAIN MANHOLE
	EXISTING EDGE OF PAVEMENT TO BE REMOVED		PROPOSED SIDEWALK DRAIN
	EXISTING ROAD STRIPING		EXISTING DROP INLET
	PROPOSED BOLLARD		EXISTING SEWER MANHOLE
	PROPOSED DOOR		PROPOSED SEWER MANHOLE
	SCARP		EXISTING FIRE HYDRANT
	SLOPE		PROPOSED CLEAN OUT
	EXISTING GRADE		PROPOSED FIRE HYDRANT
	PROPOSED GRADE		EXISTING WATER VALVE
	PROPOSED GRADE		PROPOSED WATER VALVE
	PROPOSED GRADE		PROPOSED BLUE REFLECTIVE PAVEMENT MARKING
	PROPOSED GRADE		EXISTING MISCELLANEOUS MANHOLE
	PROPOSED GRADE		EXISTING POLE
	PROPOSED GRADE		EXISTING STREET LIGHT
	PROPOSED GRADE		EXISTING AREA LIGHT
	PROPOSED GRADE		PROPOSED AREA LIGHT

ABBREVIATIONS

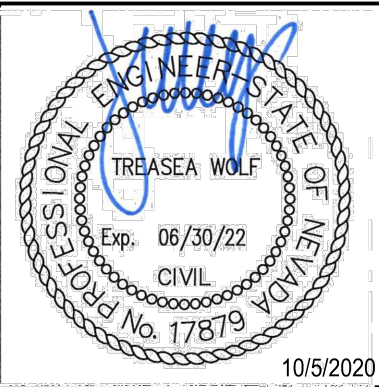
AB	AGGREGATE BASE	E/W	EAST/WEST OR EACH WAY	PT	POINT OF TANGENCY
AC	ASPHALTIC CONCRETE	F-F	FACE OF CURB TO FACE OF CURB	PVC	POLYVINYL CHLORIDE
ADA	AMERICANS WITH DISABILITIES ACT	FG	FINISHED GROUND	PVI	POINT OF VERTICAL INFLECTION
AVE	AVENUE	FF	FINISHED FLOOR	R	RADIUS
BC	BACK OF CURB	FS	FINISHED SURFACE	RCB	REINFORCED CONCRETE BOX
BCR	BEGIN CURB RETURN	FL	FLOWLINE	RCP	REINFORCED CONCRETE PIPE
BLVD	BOULEVARD	FT	FOOT or FEET	RT	RIGHT
BM	BENCHMARK	GB	GRADE BREAK	R/W	RIGHT OF WAY
BVC	BEGIN VERTICAL CURVE	H	HEIGHT	S	SOUTH
BW	BOTTOM OF WALL	HDPE	HIGH-DENSITY POLYETHYLENE	SD	STORM DRAIN
B/S	BACKSIDE	HP	HIGH POINT	SF	SQUARE FOOT OR FEET
CALC	CALCULATED	INT	INTERSECTION	SS	SANITARY SEWER
CC	CLARK COUNTY	INV	INVERT	SSMH	SANITARY SEWER MANHOLE
CCAUUSD	CLARK COUNTY AREA UNIFORM STANDARD DRAWING	L	LENGTH	ST	STEEL
CCFD	CLARK COUNTY FIRE DEPARTMENT	LA	LANDSCAPE ARCHITECT	STD	STANDARD
CCWRD	CLARK COUNTY WATER RECLAMATION DISTRICT	LF	LINEAR FEET	SY	SQUARE YARDS
CJ	CONTRACTION JOINT	L/S	LANDSCAPE	TC	TOP OF CURB
CL	CENTERLINE	LT	LEFT	TG	TOP OF GRATE
CLV	CITY OF LAS VEGAS	LVVWD	LAS VEGAS VALLEY WATER DISTRICT	TYP	TYPICAL
CO	CLEAN OUT	MAX	MAXIMUM	TW	TOP OF WALL
CONN	CONNECTION	ME	MATCH EXISTING	UDACS	UNIFORM DESIGN AND CONSTRUCTION STANDARDS FOR WATER DISTRIBUTION SYSTEMS
CTV	CABLE TELEVISION	MEP	MECHANICAL, ELECTRICAL AND PLUMBING	VERT	VERTICAL
CY	CUBIC YARD	MH	MANHOLE	W	WEST OR WATER
Δ	DELTA (DIFFERENCE) / ANGLE	MIN	MINIMUM	WL	WATERLINE
D	DEPTH	N	NORTH	WTR	WATER
DG	DECOMPOSED GRANITE	NTS	NOT TO SCALE	XFF	EXISTING FINISHED FLOOR ELEVATION
DI	DUCTILE IRON	N/S	NORTH/SOUTH	±	PLUS OR MINUS
E	EAST	OC	ON CENTER		
EA	EACH	P.A.E.	PUBLIC ACCESS EASEMENT		
ECR	END CURB RETURN	PC	POINT OF CURVATURE		
EJ	EXPANSION JOINT	PCC	POINT OF COMPOUND CURVATURE		
ELEV	ELEVATION	PR	PROPOSED		
ELEC	ELECTRICAL	PRC	POINT OF REVERSE CURVATURE		
EP	EDGE OF PAVEMENT				
EVC	END VERTICAL CURVE				
EX	EXISTING				



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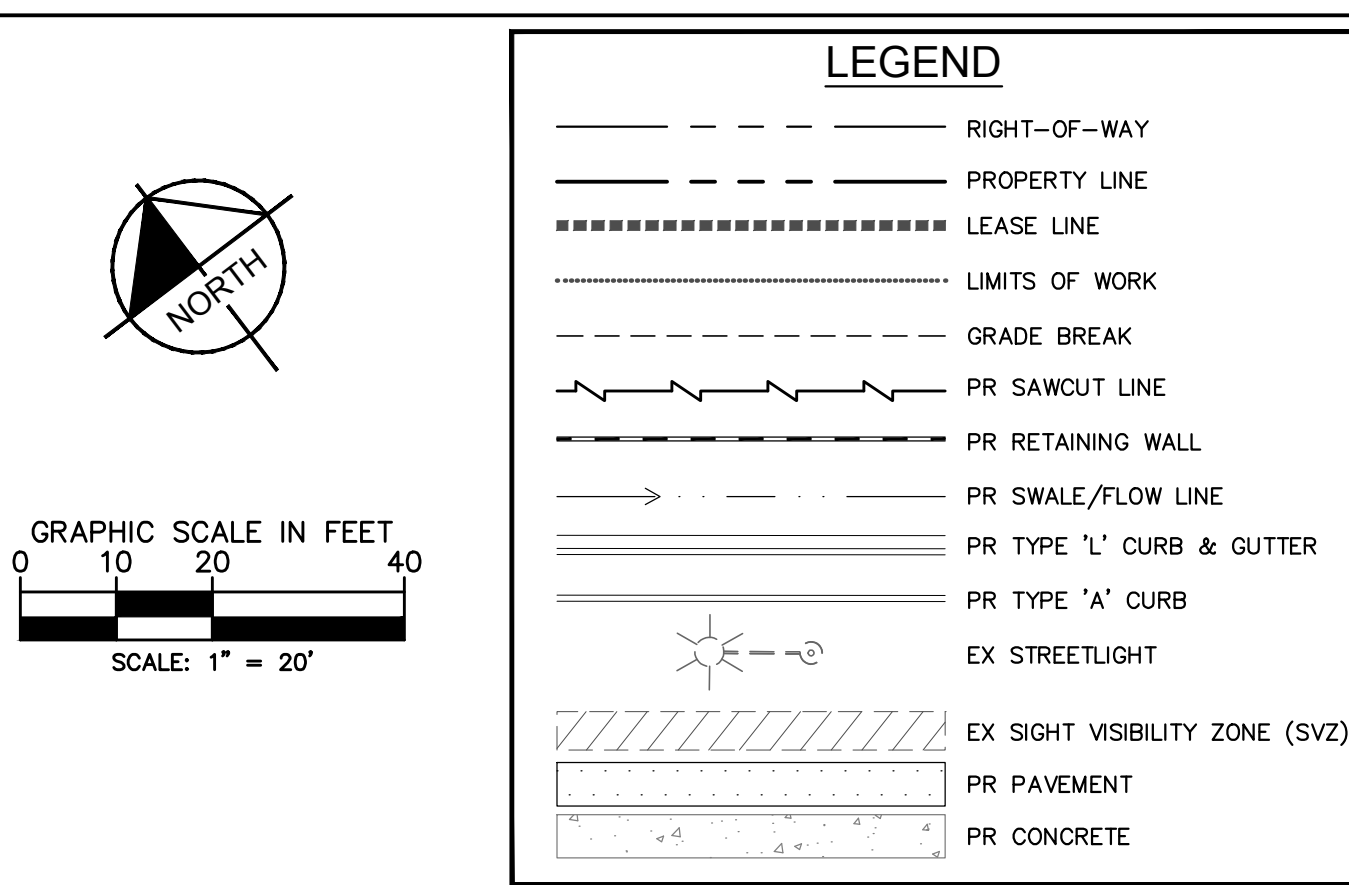
CHICK-FIL-A
CENTENNIAL 95 PLAZA
6410 CENTENNIAL CENTER BLVD.
LAS VEGAS, NV 89149

FSR# 4548

REVISION SCHEDULE	
NO.	DATE DESCRIPTION

AGENCY #	TBD
PROJECT #	092908028
PRINTED FOR	AGENCY SUBMITTAL
DATE	10/5/2020
DESIGN BY	JZ
DRAWN BY	CT
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SHEET QUANTITIES	
SHEET NUMBER	

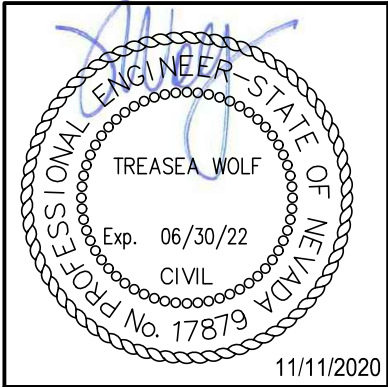
C1.2



- ① CONSTRUCT "L" TYPE CURB & GUTTER PER DETAIL 17 OPTION B, SHEET C4.2
- ② CONSTRUCT "A" TYPE CURB PER DETAIL 7, SHEET C4.1
- ③ CONSTRUCT SIDEWALK PER DETAIL 12, SHEET C4.1
- ④ CONSTRUCT CONCRETE PAVING DRIVE-THRU LANE PER SOILS REPORT BY TERRACON CONSULTANTS SEE DETAIL 20, SHEET C4.2
- ⑤ CONSTRUCT STANDARD AC PAVEMENT PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 16, SHEET C4.2
- ⑥ DRIVE-THRU ISOMETRIC PLAN VIEW PER DETAILS 13 & 14, SHEET C4.2
- ⑦ CONSTRUCT 0" CURB
- ⑧ CONSTRUCT 0" TO 6" TRANSITION PER DETAIL 15, SHEET C4.2
- ⑨ CONSTRUCT CONCRETE/AC EDGE PER DETAIL 19, SHEET C4.2
- ⑩ CONSTRUCT ONSITE ADA RAMP PER DETAIL 10, SHEET C4.1
- ⑪ CONSTRUCT CONTRACTION JOINT (CJ) PER DETAIL 18, SHEET C4.2
- ⑫ CONSTRUCT EXPANSION JOINT (EJ) PER DETAIL 27, SHEET C4.3
- ⑬ DRIVE-THRU ISLAND CURB PER DETAIL 23, SHEET C4.3
- ⑭ CONSTRUCT SIDEWALK WITH 6" CURB SECTION PER DETAIL 13, SHEET C4.1
- ⑮ CONSTRUCT TRUNCATED DOMES PER DETAIL 11, SHEET C4.1
- ⑯ CONSTRUCT REFUSE ENCLOSURE PER DETAIL 26, SHEET C4.3
- ⑰ INSTALL CURB-0-LET DRAINAGE AND OUTLET AT CURB FACE PER DETAIL 24, SHEET C4.3
- ⑱ CONSTRUCT 2.0' CURB OPENING PER DETAIL 22, SHEET C4.2
- ⑳ PROPOSED LANDSCAPING PER SEPARATE LANDSCAPE PLANS
- ㉑ MATCH EXISTING
- ㉒ EXISTING SIGHT VISIBILITY ZONE



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WWW.KIMLEY-HORN.COM



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LAS VEGAS, NV 89149

FSR# 4548

REVISION SCHEDULE

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION</u>
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BENCHMARK

THE ELEVATION DATA SHOWN HEREON IS U.S. SURVEY FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD'88) CITY OF LAS VEGAS VERTICAL CONTROL NETWORK, RE-OBSERVED 2005-2007, BASED ON:

MONUMENT ID 57V9028N66

SECTION 28, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M.

DESCRIPTION: RIVET & PLATE IN TOP OF CURB AT NW CORNER OF CENTENNIAL CENTER
PARKWAY & US 95 SOUTHBOUND OFF RAMP.

ELEVATION: 738.593 METERS
2423.20 U.S. SURVEY FEET

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THE SURVEY SHOWN HEREON IS SOUTH 53°05'47" EAST AS
DEFINED BY THE MONUMENTS SHOWN HEREON, BEING THE CONTROL LINE OF CENTENNIAL CENTER
BOULEVARD AS DERIVED BY BOOK 95 OF PLATS, PAGE 45, IN THE OFFICE OF THE COUNTY
RECORDER OF CLARK COUNTY, NEVADA.

FLOOD ZONE NOTE

THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) PANEL NUMBER 32003C1745E, REVISED SEPTEMBER 27, 2002 INDICATE THAT THE PROJECT SITE IS LOCATED IN ZONE 'X'. ZONE 'X' IS DEFINED BY FEMA AS 'AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.'

DRAINAGE CERTIFICATION

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED DRAINAGE STUDY ON FILE WITH CITY OF LAS VEGAS FOR THIS PROJECT, DS-5100

TREASEA WOLF, PE No. 17879

DATE: _____

CLV #:

C3.0

LEGEND & ABBREVIATIONS

SEE SHEET C1.2 FOR MASTER LEGEND AND ABBREVIATIONS.

LEGAL DESCRIPTION

SEE COVER SHEET FOR FULL LEGAL DESCRIPTION

NOTES:

ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.

OWNER RESPONSIBLE TO PROVIDE SURVEY MONUMENTATION AS SHOWN AND TO REPLACE ALL SURVEY MONUMENTATION DAMAGED, DISTURBED, DESTROYED, OR OBSCURED DURING CONSTRUCTION.



STORMWATER MANAGEMENT NOTES

1. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF THE CITY OF LAS VEGAS OR ANY RESIDENTIAL OR COMMERCIAL STREET OR HIGHWAY ADJACENT TO THE CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
2. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE CITY OF LAS VEGAS BUILDING ALTERNATIVE DISCHARGE PERMIT. SUCH ADDITIONAL PRACTICES MAY BE REQUIRED TO PREVENT ANNUAL, TEMPORARY OR PERMANENT STABILIZATION PRACTICES WILL BE INSTALLED ON DISTURBED AREAS AS SOON AS PRACTICABLE AND NO LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SOME EXCEPTIONS MAY APPLY. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVIR00000, SECTION III.A.5.
3. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS, AND AREAS USED FOR CONSTRUCTION ACTIVITY, INCLUDING ALL ENTRANCE AND EXIT LOCATIONS, AND ALL BMPs WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE EROSION CONTROL PLAN AS REQUIRED. INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVIR000000, SECTION III.A.12.
5. ACCUMULATED SEDIMENT IN BMPs SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT THAT RESULTS IN THE STORMWATER STORAGE CAPACITY OF THE BMP. IF THE SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.

ENGINEER'S NOTES:

1. ALL WORK SHALL CONFORM TO THE SOILS REPORT PREPARED BY TERRACON, DATED MARCH 28, 2019, NO. 641851522.
2. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" LATEST EDITION, IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" LATEST EDITION.
3. FINAL ASPHALTIC CONCRETE (CA PAVEMENT SURFACES SHALL BE FLUSH WITH THE LIP OF GUTTER (INCLUDING OPENING GRADE).
4. CONTRACTOR IS RESPONSIBLE FOR DUST AND EROSION CONTROL DURING CONSTRUCTION.
5. THIS PLAN SHALL NOT, IN PART OR IN WHOLE, BE USED FOR CONSTRUCTION UNTIL APPROVED AND SIGNED BY ALL APPLICABLE AGENCY AGENCIES.
6. THERE SHALL BE NO TOLERANCE OF ANY DISCREPANCIES IMMEDIATELY.
7. MATCH ELEVATIONS SHOWN TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
8. THIS PROJECT IS PART OF A PROPOSED COMMERCIAL SUBDIVISION.
9. ALL ON-SITE STORM DRAINS AND THE ASSOCIATED STORM WATER FACILITIES ARE PRIVATELY OWNED AND PRIVATELY MAINTAINED.

GRADING NOTE:

PER THE SOILS REPORT, POSITIVE DRAINAGE OF 5% MINIMUM IN LANDSCAPE AREAS AND 2% MINIMUM ELSEWHERE SHALL BE MAINTAINED FOR AREAS ADJACENT TO STRUCTURES. THE 2% SHOULD BE MAINTAINED A DISTANCE OF 10' IN AREAS WHERE ADA IS ADJACENT TO THE BUILDING, SLOPES LESS THAN 2% ARE ACCEPTABLE.

SIGHT VISIBILITY ZONES NOTE

NO WALLS, FENCES, SHRUBS, UTILITY APPURTENANCES OR ANY OTHER OBJECT, OTHER THAN TRAFFIC CONTROL DEVICES, FIRE HYDRANTS, TREES, AND STREET LIGHT POLES MAY BE CONSTRUCTED OR INSTALLED WITHIN THE SIGHT VISIBILITY ZONE UNLESS SAID OBJECT IS MAINTAINED LESS THAN 24 INCHES IN HEIGHT MEASURED FROM TOP OF CURB, OR WHERE NO CURB EXISTS, A HEIGHT OF 27 INCHES MEASURED FROM THE TOP OF ADJACENT ASPHALT, GRAVEL, OR PAVEMENT STREET SURFACE. THIS RESTRICTION EXTENDS ALONG THE SIGHT VISIBILITY LINE THROUGH LANDSCAPED MEDIANS.

ELEVATION NOTE:

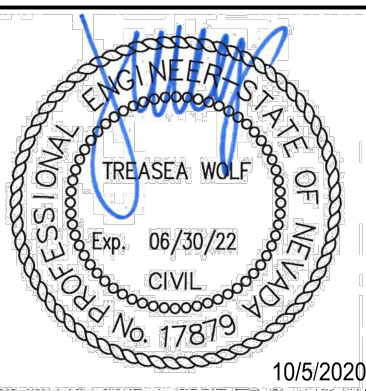
ADD 2400 FEET TO ALL SPOT ELEVATIONS, EXCEPT FINISHED FLOOR ELEVATIONS AND CONTOURS.

NTS

- # CONSTRUCTION NOTES
1. CONSTRUCT "L" TYPE CURB & GUTTER PER DETAIL 17 OPTION B, SHEET C4.2
 2. CONSTRUCT "A" TYPE CURB PER DETAIL 7, SHEET C4.1
 3. CONSTRUCT SIDEWALK PER DETAIL 12, SHEET C4.1
 4. CONSTRUCT CONCRETE PAVING DRIVE-THRU LANE PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 20, SHEET C4.2
 5. CONSTRUCT STANDARD AC PAVEMENT PER SOILS REPORT BY TERRACON CONSULTANTS. SEE DETAIL 16, SHEET C4.2
 7. CONSTRUCT 6" CURB
 13. CONSTRUCT TRUNCATED DOMES PER DETAIL 11, SHEET C4.1
 15. PROPOSED LANDSCAPING PER SEPARATE LANDSCAPE PLANS
- ME MATCH EXISTING



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NTS

NTS

NTS

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LAS VEGAS, NV 89149

FSR# 4548

REVISION SCHEDULE		
NO.	DATE	DESCRIPTION

AGENCY # TBD

PROJECT # 092908028

PRINTED FOR AGENCY SUBMITTAL

DATE 10/5/2020

DESIGN BY JZ

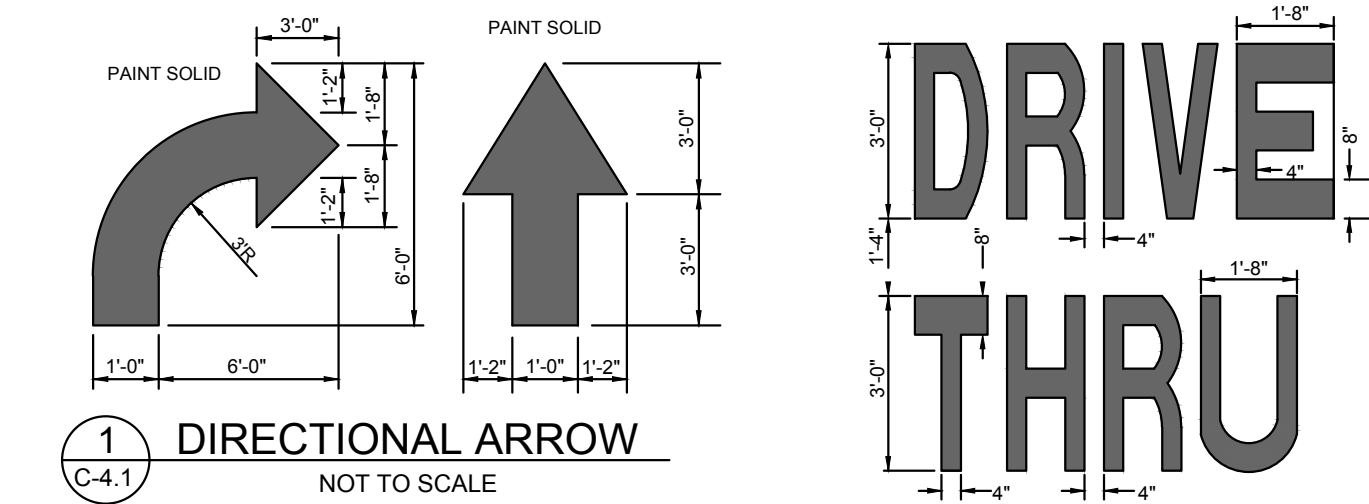
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TYPICAL
SECTIONS

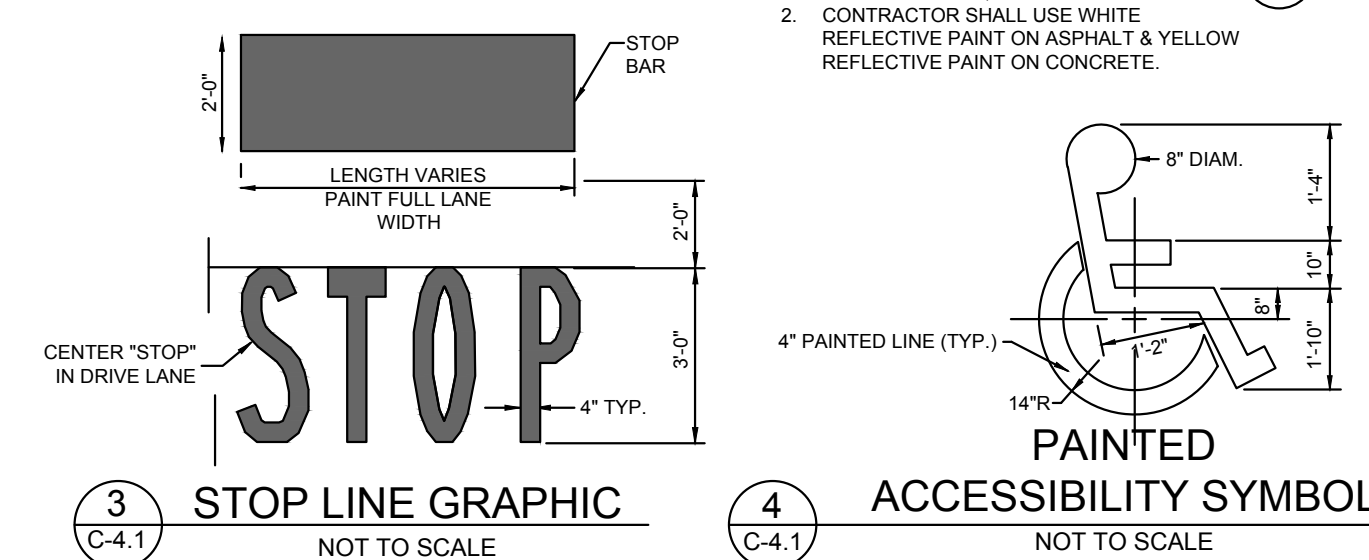
SHEET NUMBER

C3.1

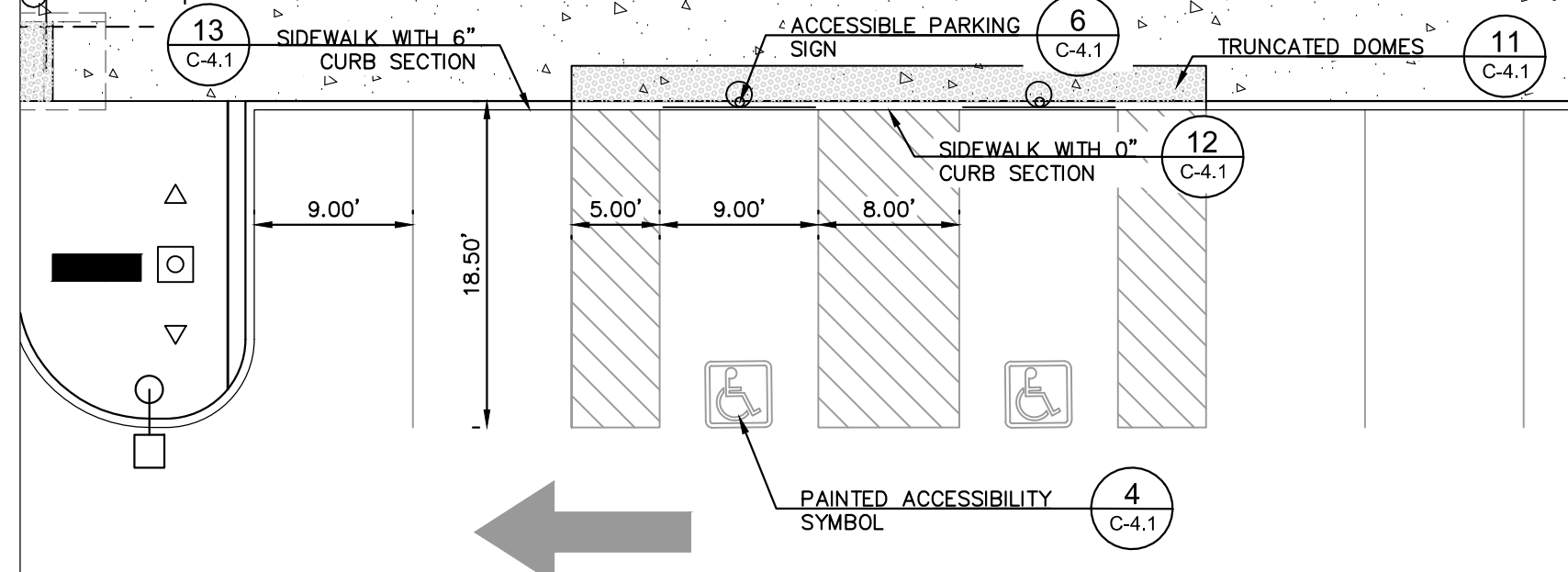
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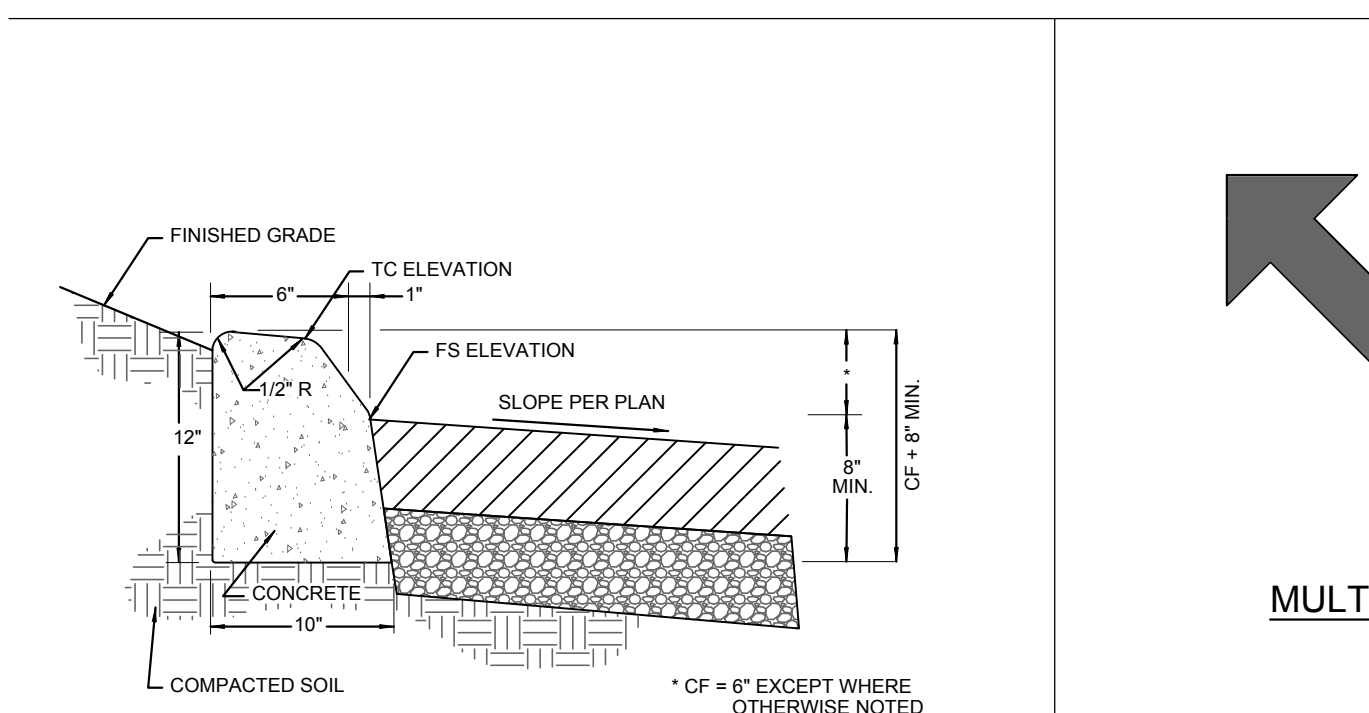
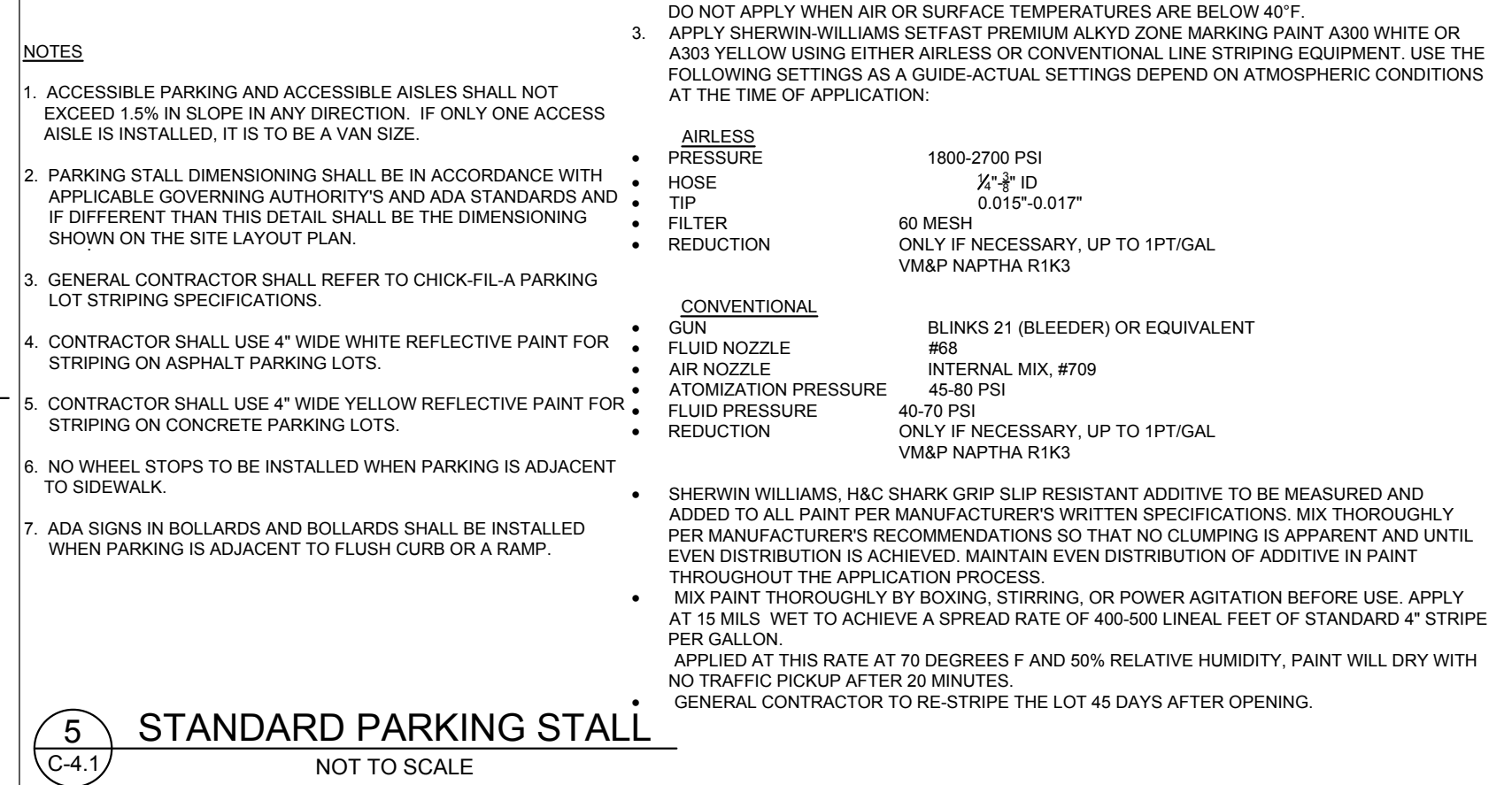
1 DIRECTIONAL ARROW NOT TO SCALE
2 DRIVE-THRU GRAPHICS NOT TO SCALE



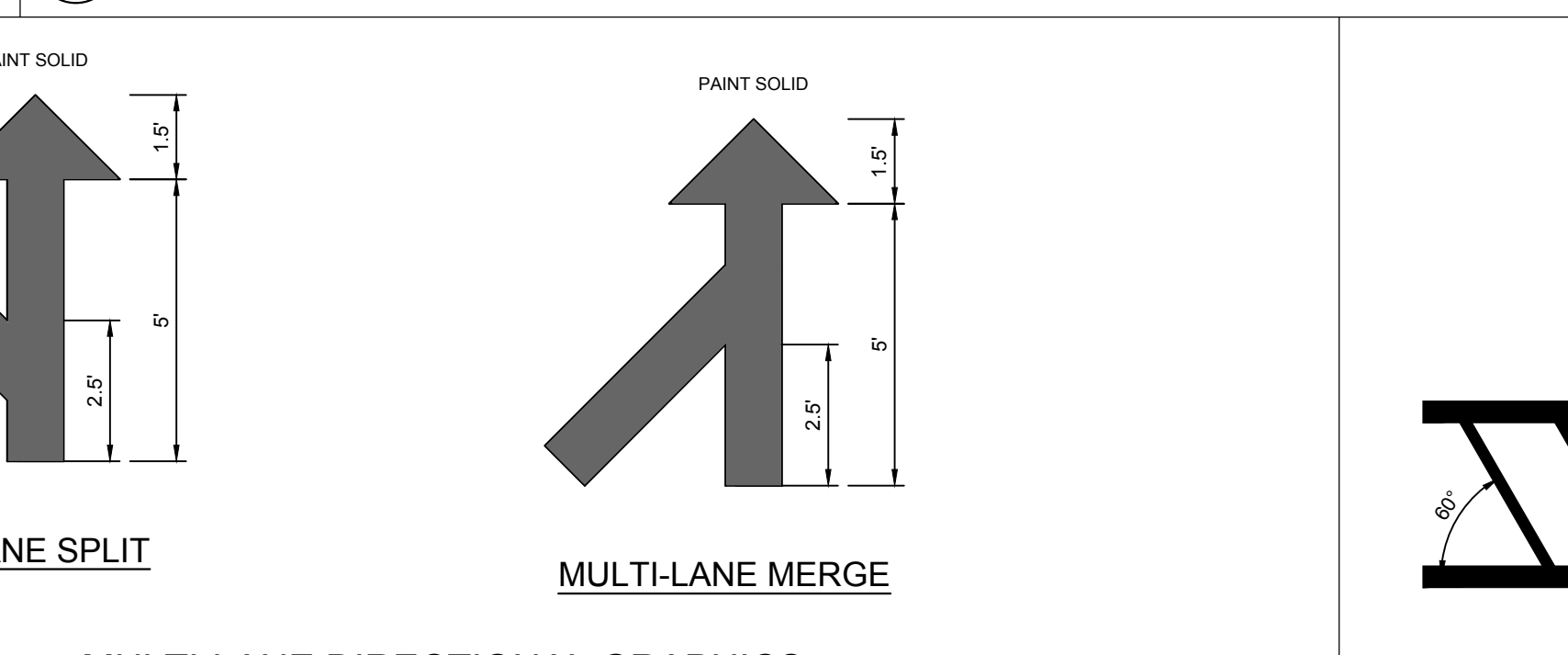
3 STOP LINE GRAPHIC NOT TO SCALE
4 ACCESSIBILITY SYMBOL NOT TO SCALE



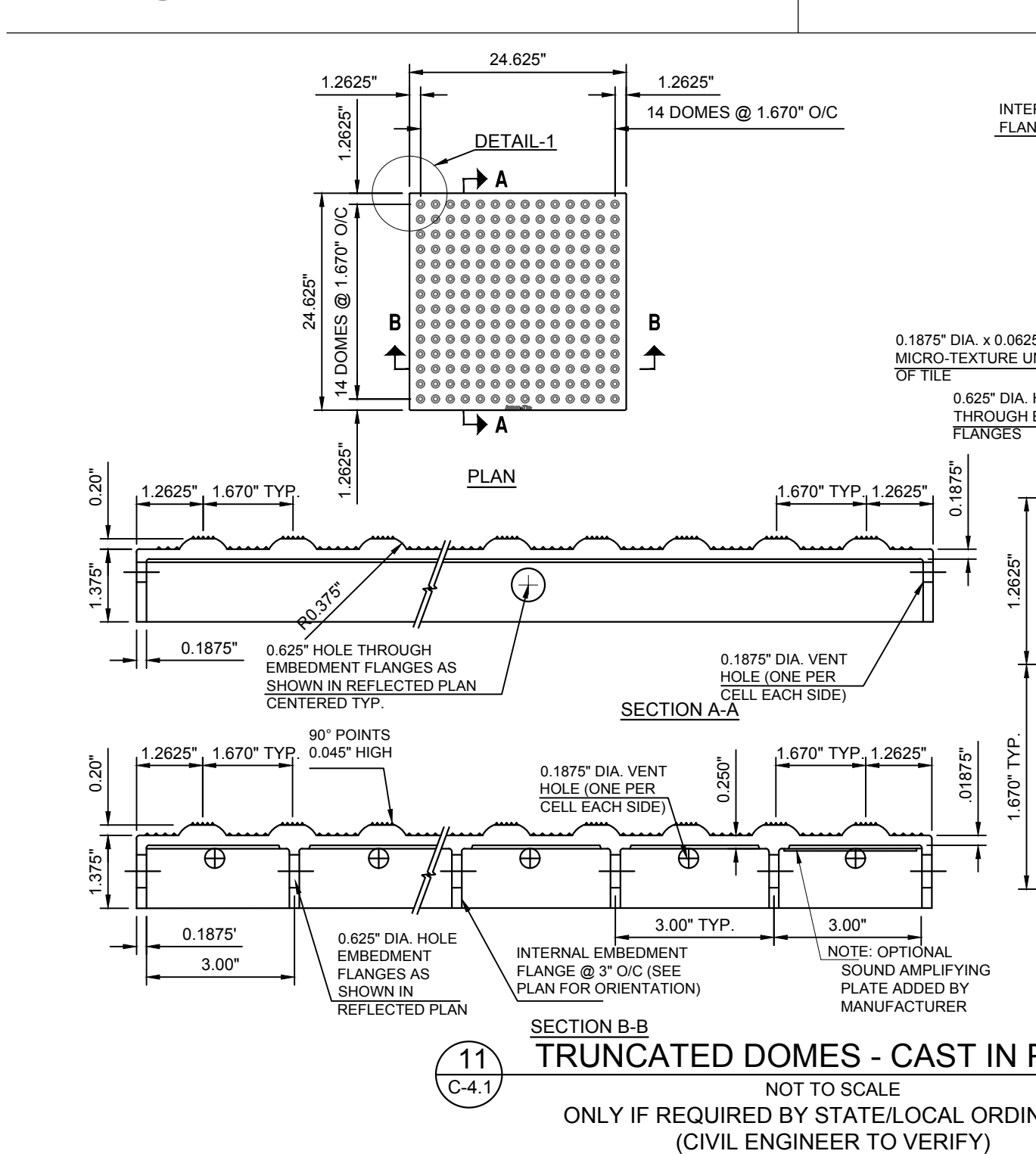
5 STANDARD PARKING STALL NOT TO SCALE



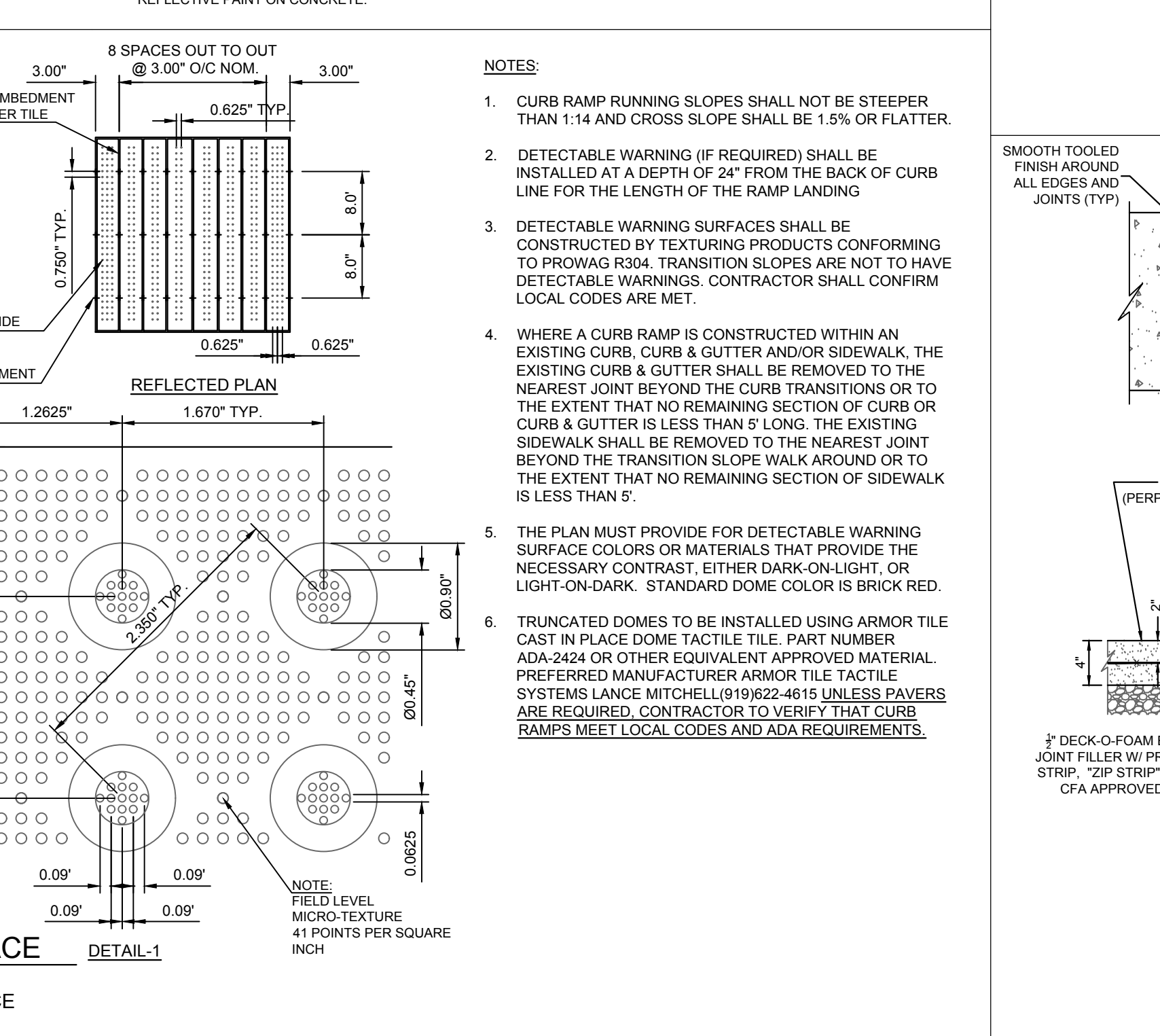
7 6" CURB DETAIL NOT TO SCALE



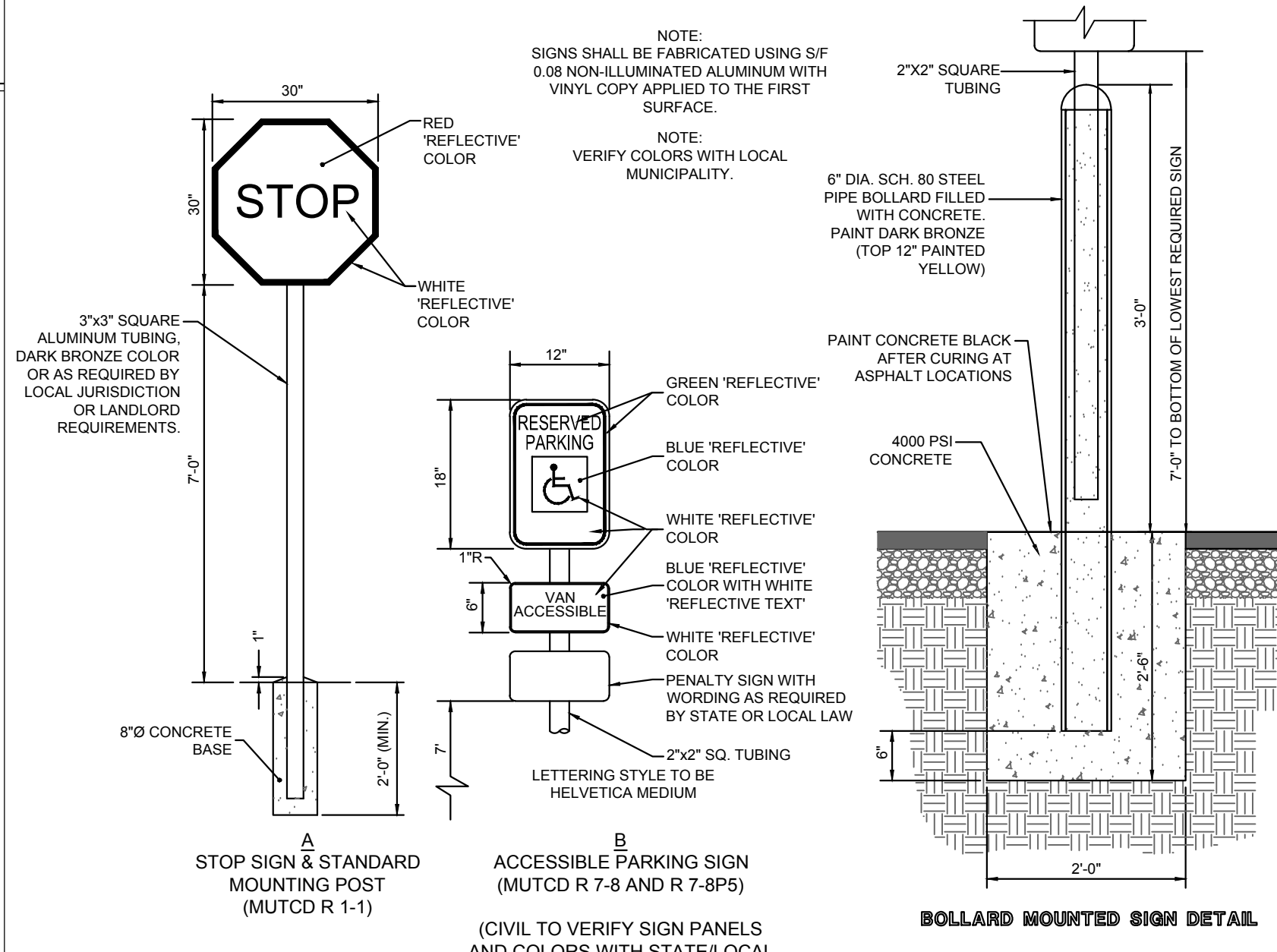
8 MULTI-LANE DIRECTIONAL GRAPHICS NOT TO SCALE



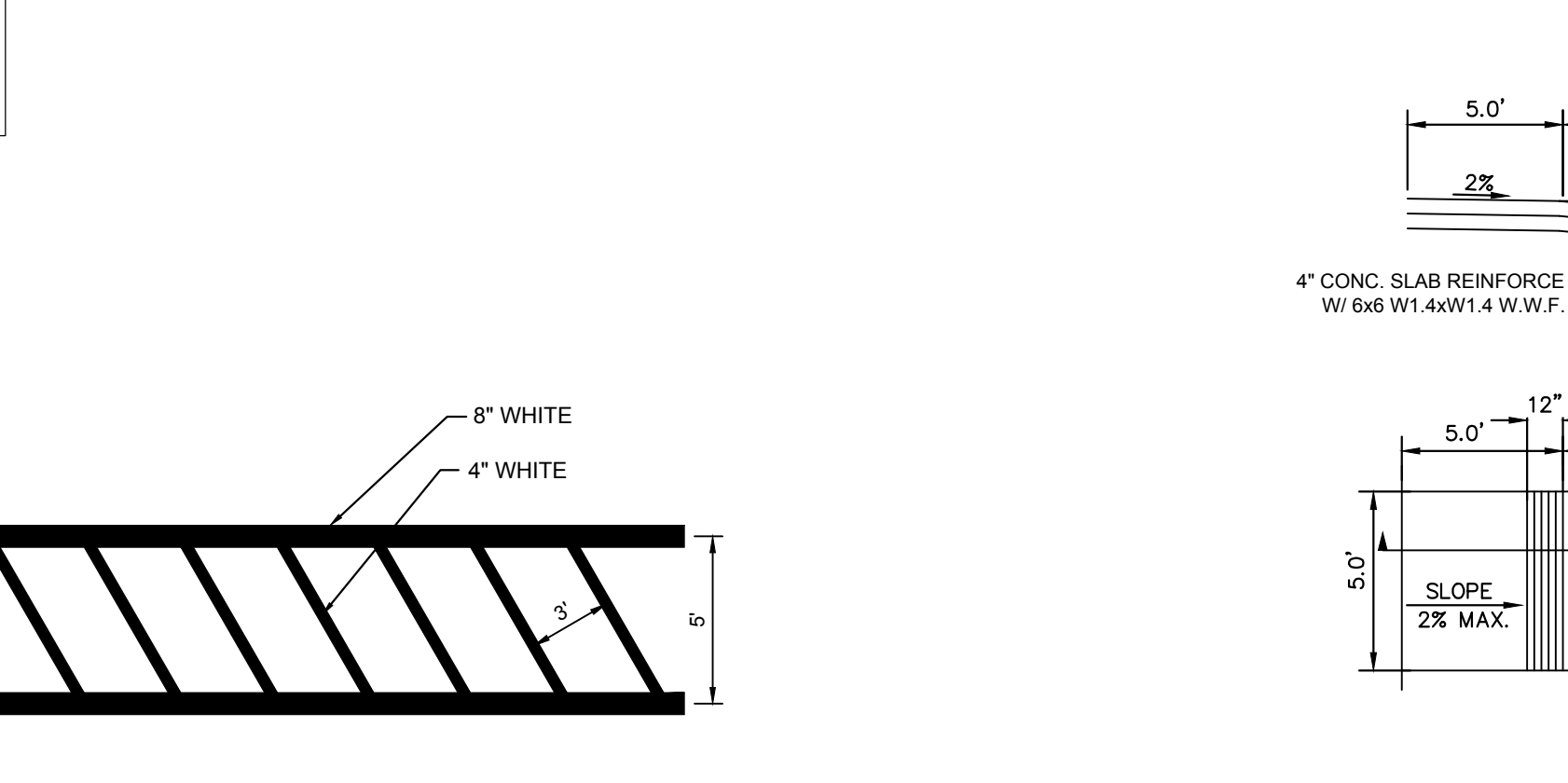
11 TRUNCATED DOMES - CAST IN PLACE NOT TO SCALE



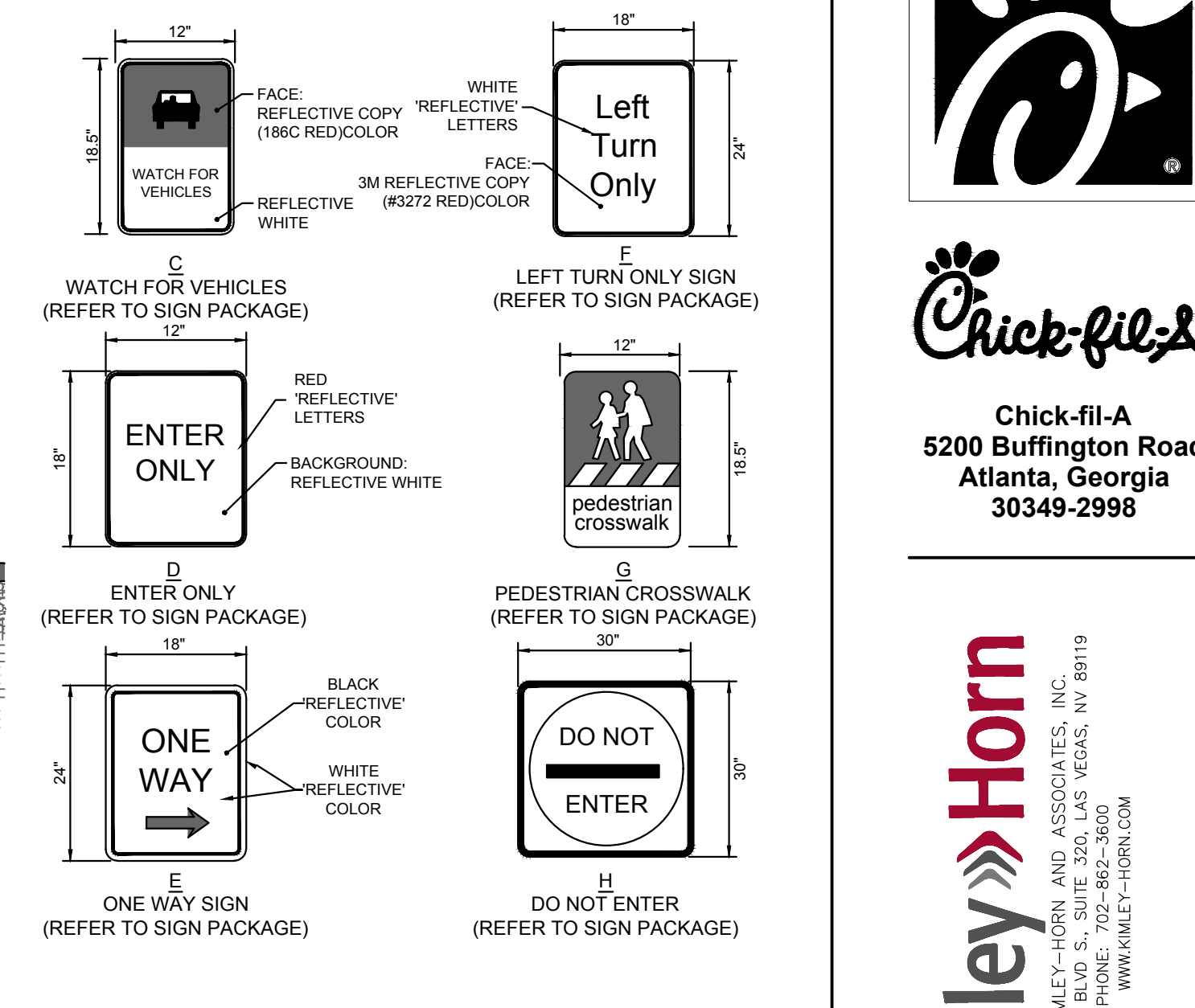
12 TYPICAL CONCRETE SIDEWALK NOT TO SCALE



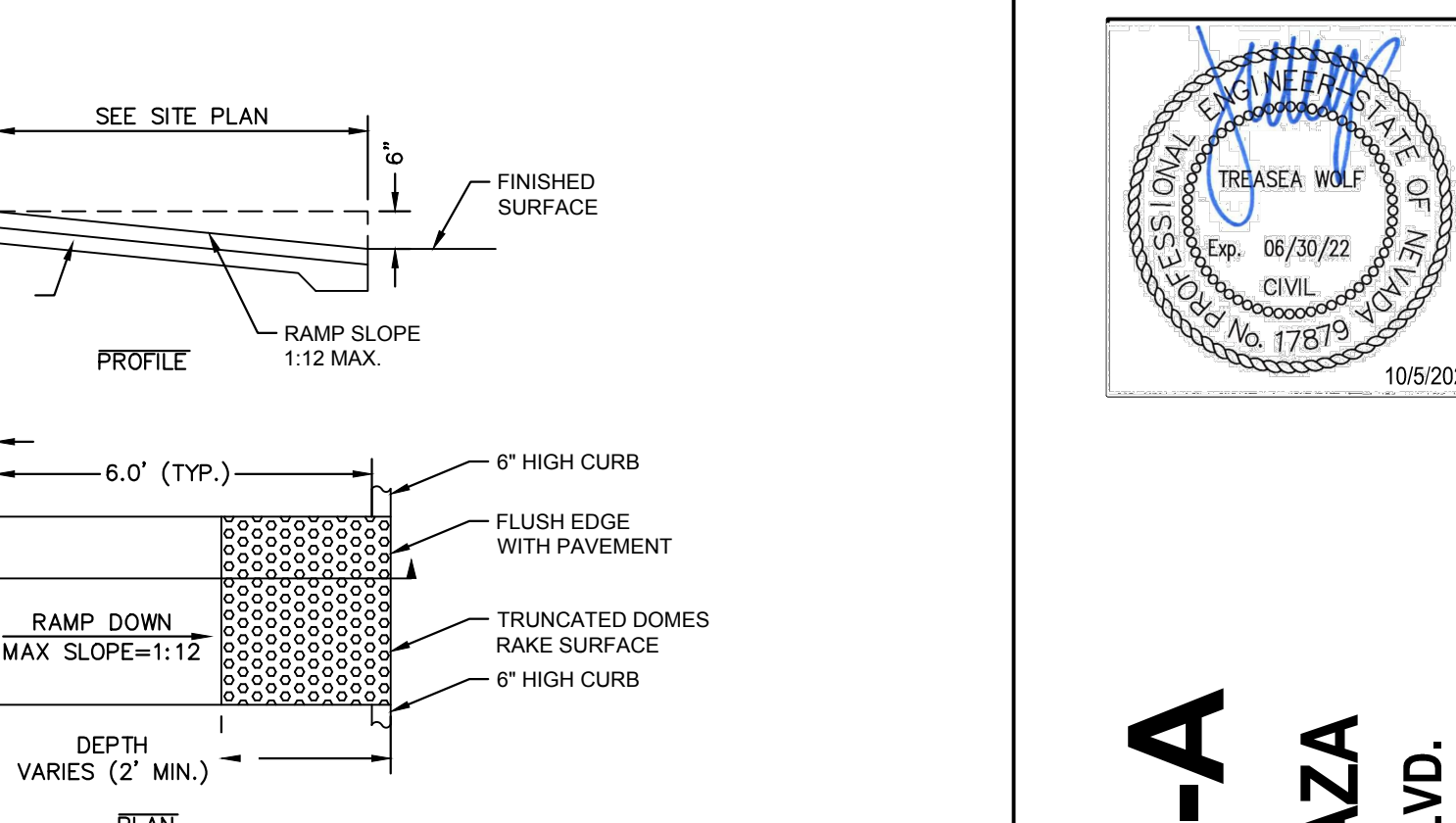
6 DIRECTIONAL SIGNAGE NOT TO SCALE



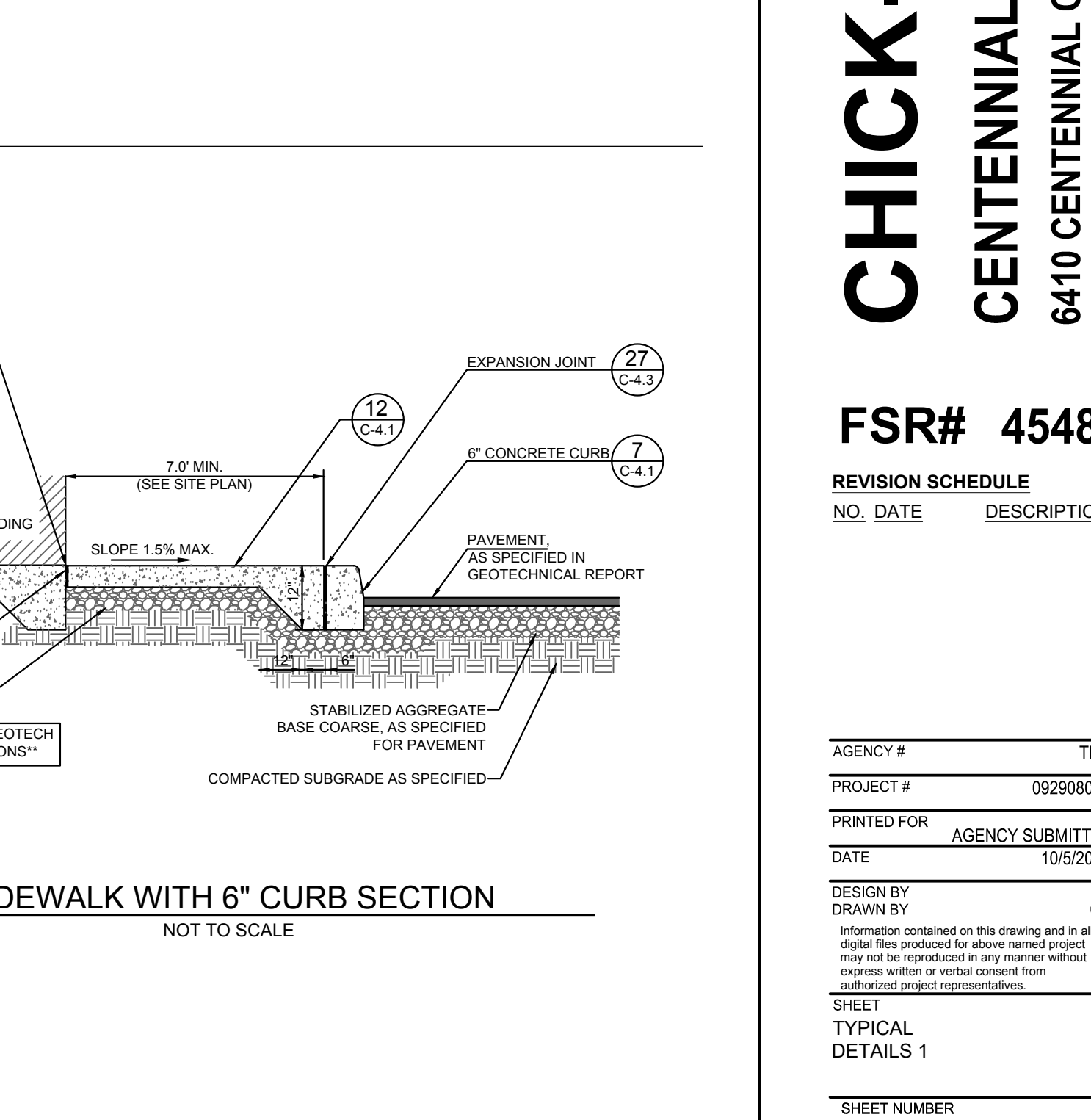
9 CROSSWALK DETAIL NOT TO SCALE



10 CURB RAMP NOT TO SCALE



5 C-4.1

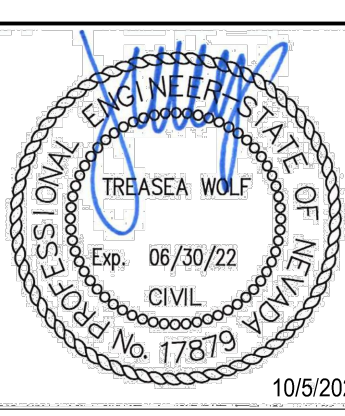


13 SIDEWALK WITH 6" CURB SECTION NOT TO SCALE



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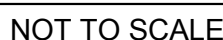
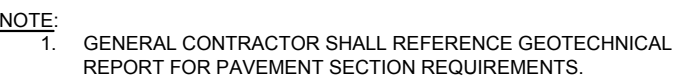
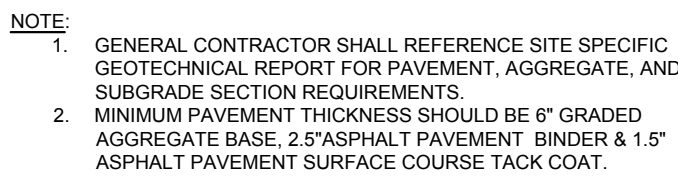
CHICK-FIL-A
CENTENNIAL 95 PLAZA
6410 CENTENNIAL CENTER BLVD.
LAS VEGAS, NV 89149

FSR# 4548

REVISION SCHEDULE
NO. DATE DESCRIPTION

AGENCY # TBD
PROJECT # 092908028
PRINTED FOR AGENCY SUBMITTAL
DATE 10/5/2020
DESIGN BY JZ
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SHEET TYPICAL DETAILS 1
SHEET NUMBER

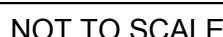
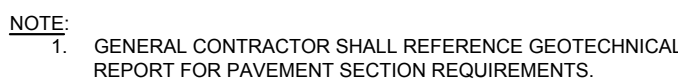
CLV #:
C4.1



NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.



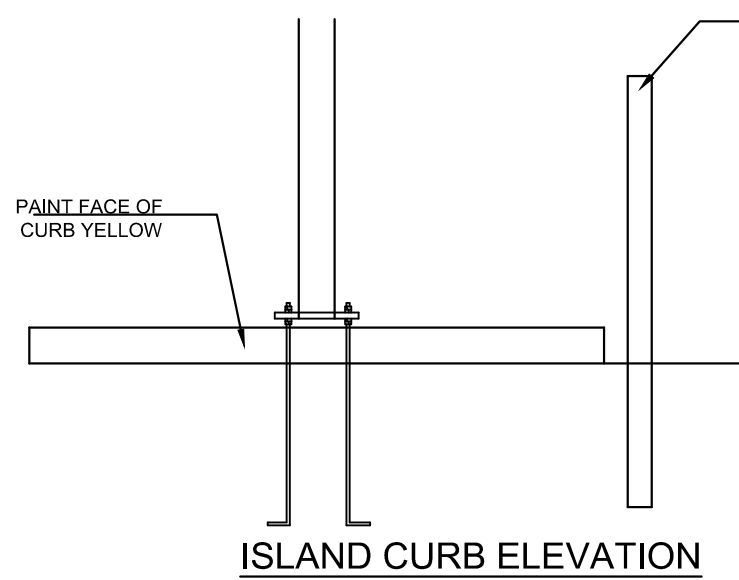
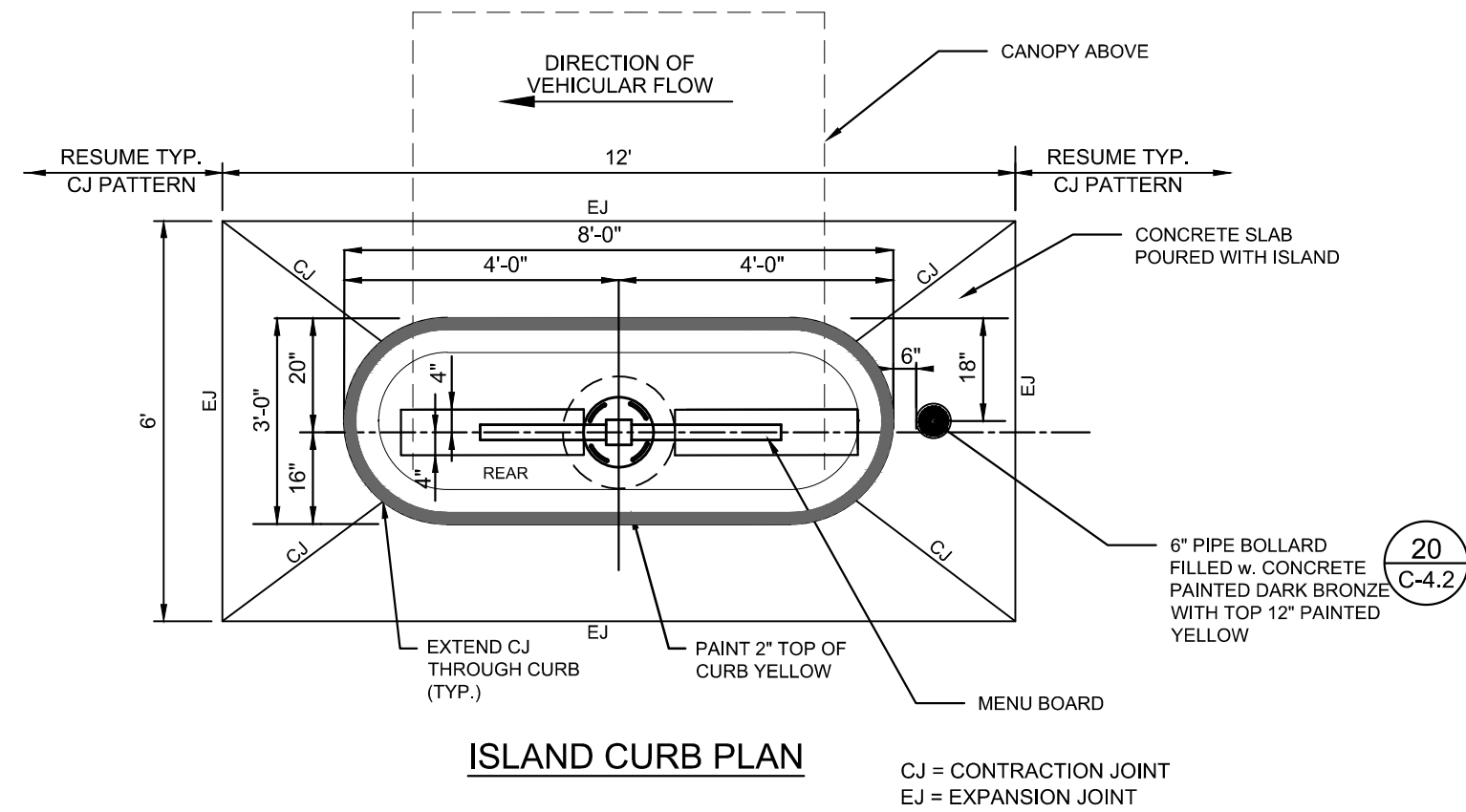
NOTE:
1. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR PAVEMENT SECTION REQUIREMENTS.



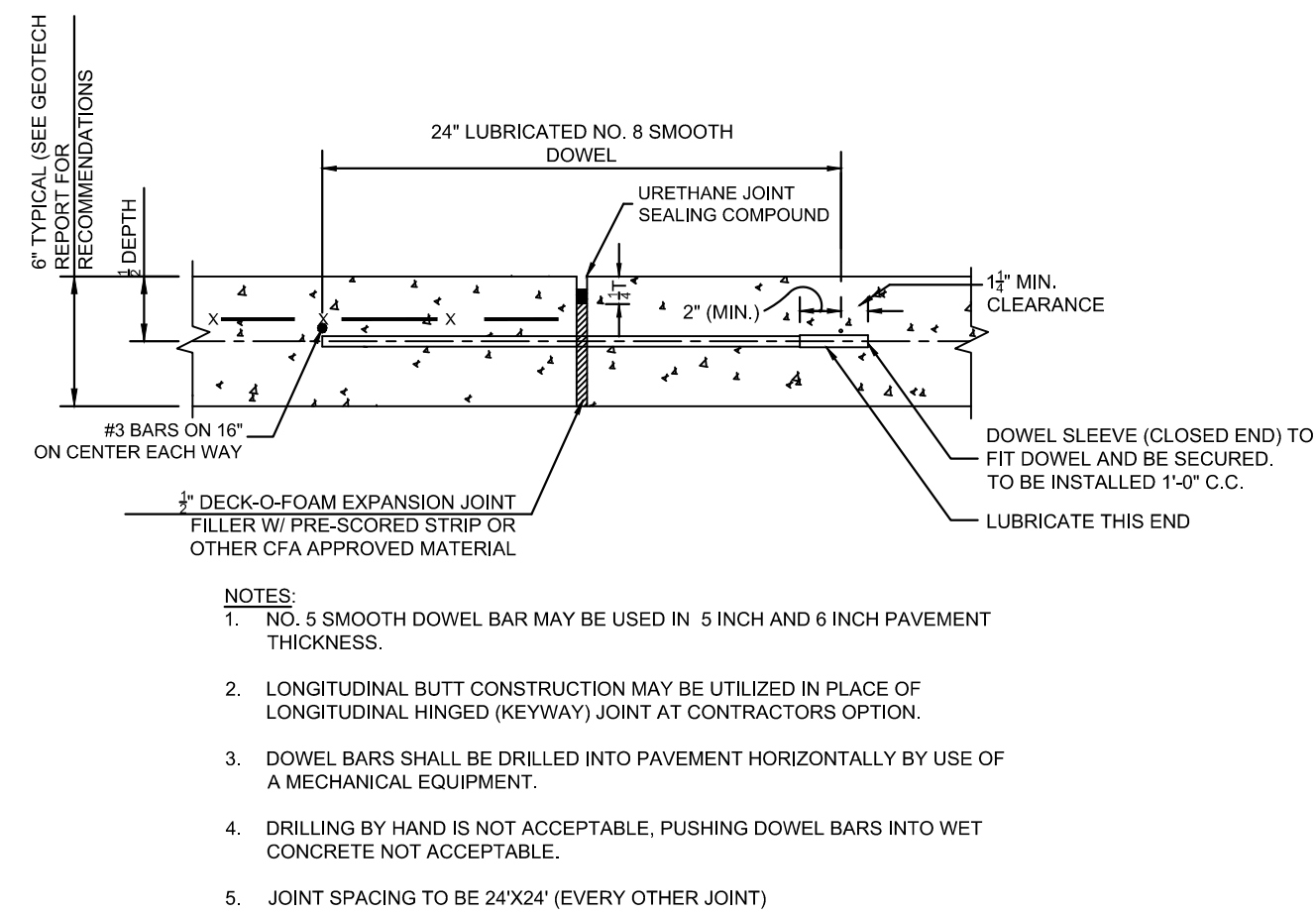
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6671 LAS VEGAS BLVD S., SUITE 320, LAS VEGAS, NV 89119
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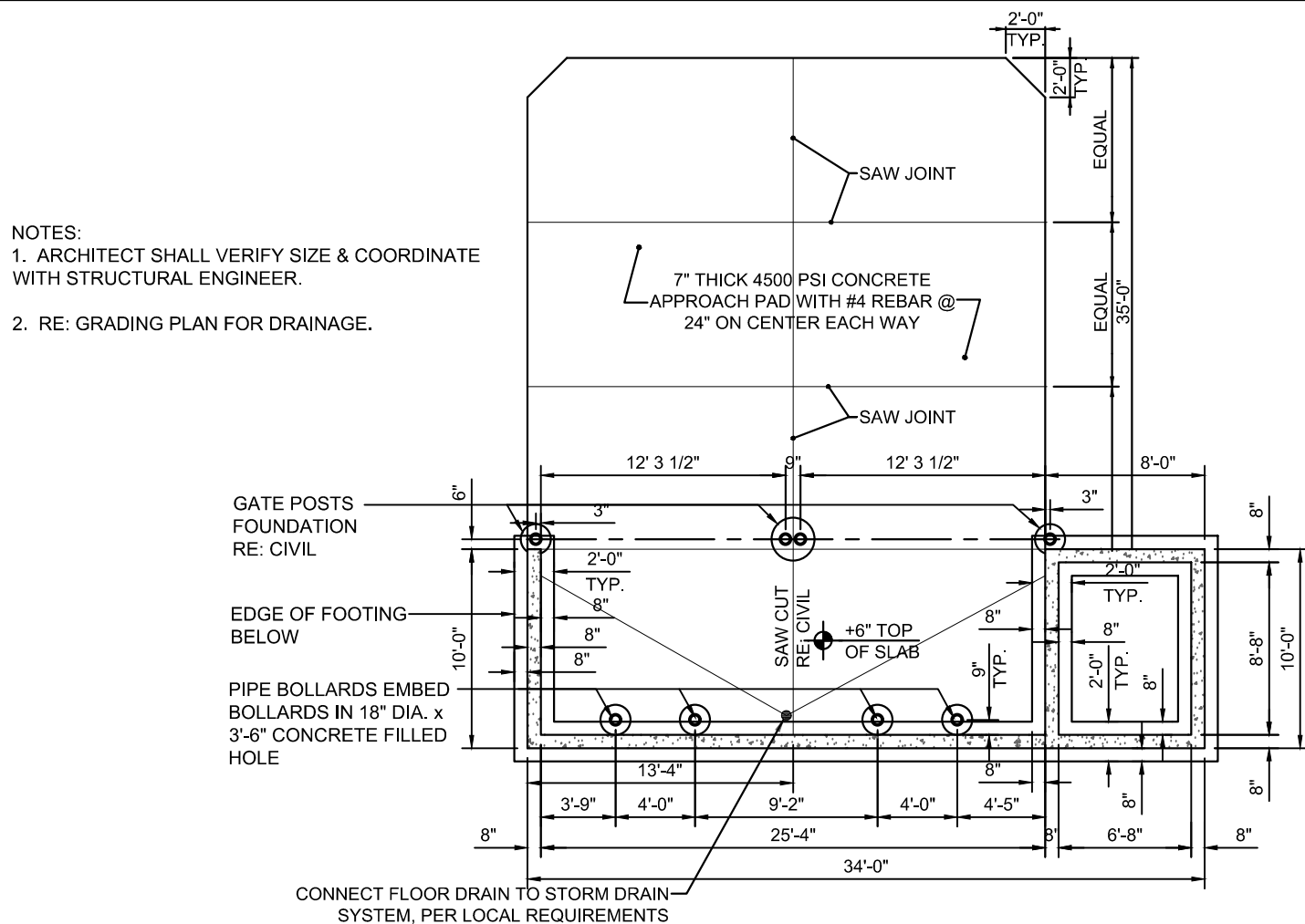
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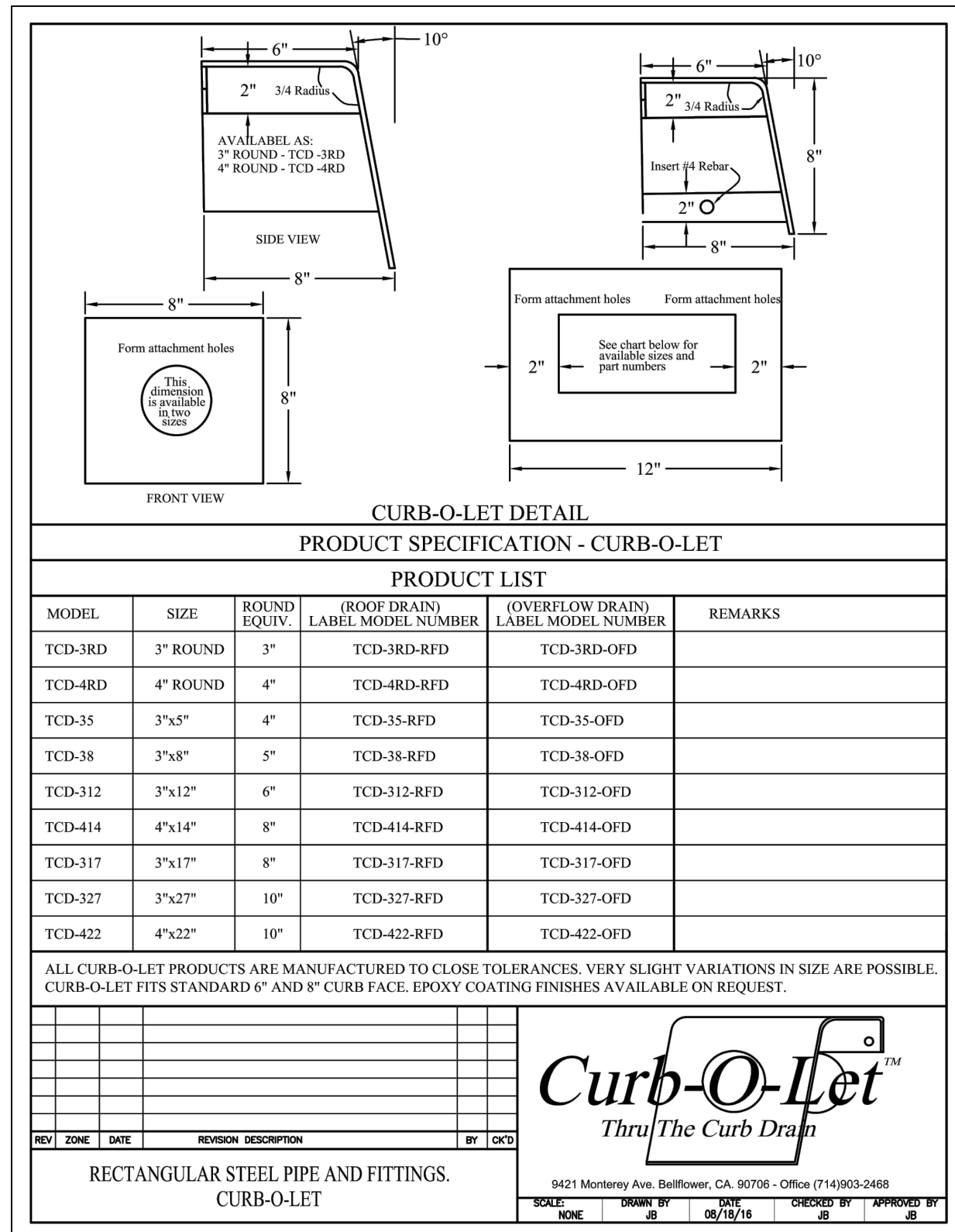
23 C-4.3 DRIVE THRU ORDER POINT ISLAND CURB
NOT TO SCALE



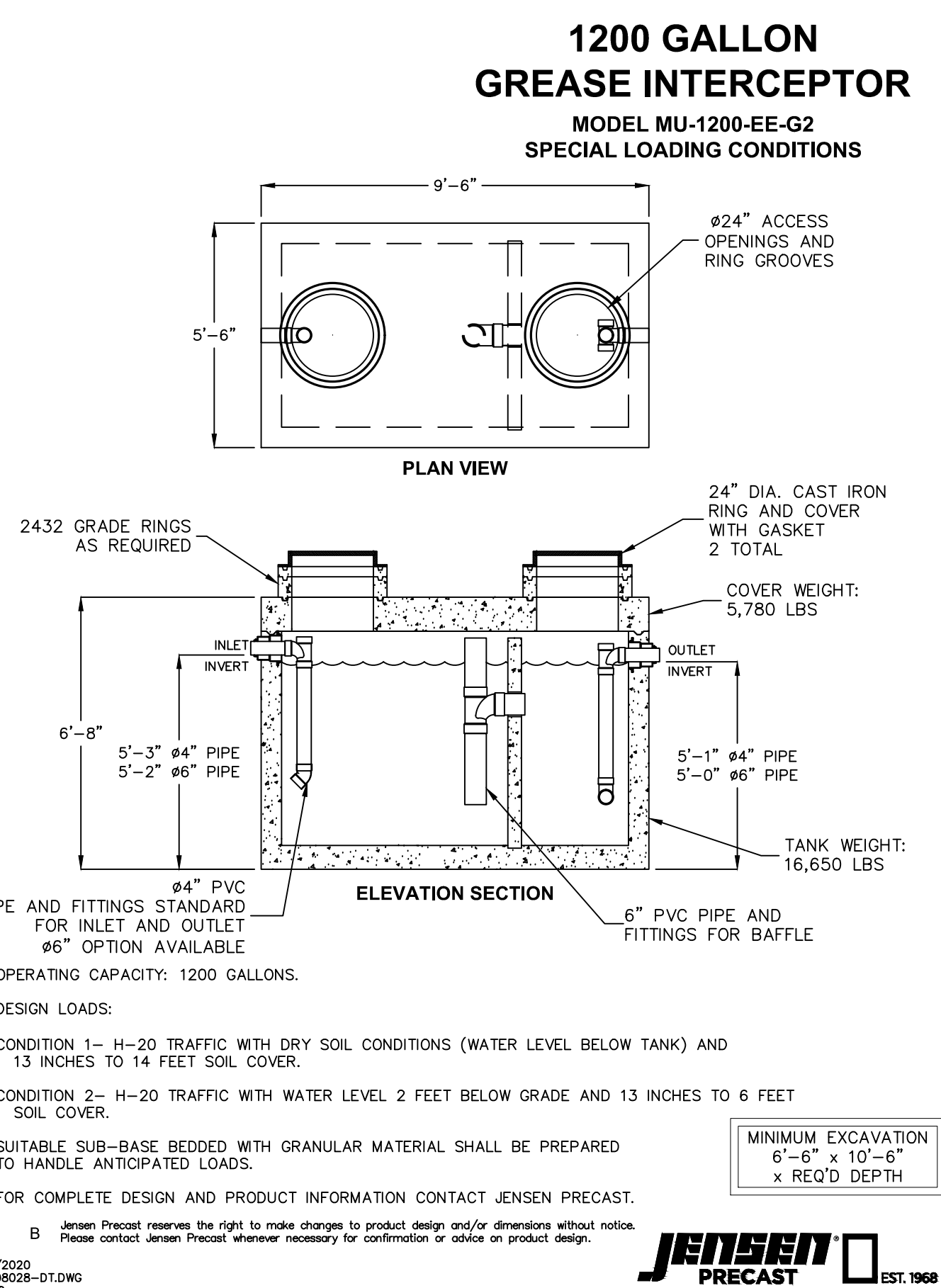
27 C-4.3 EXPANSION JOINT
NOT TO SCALE



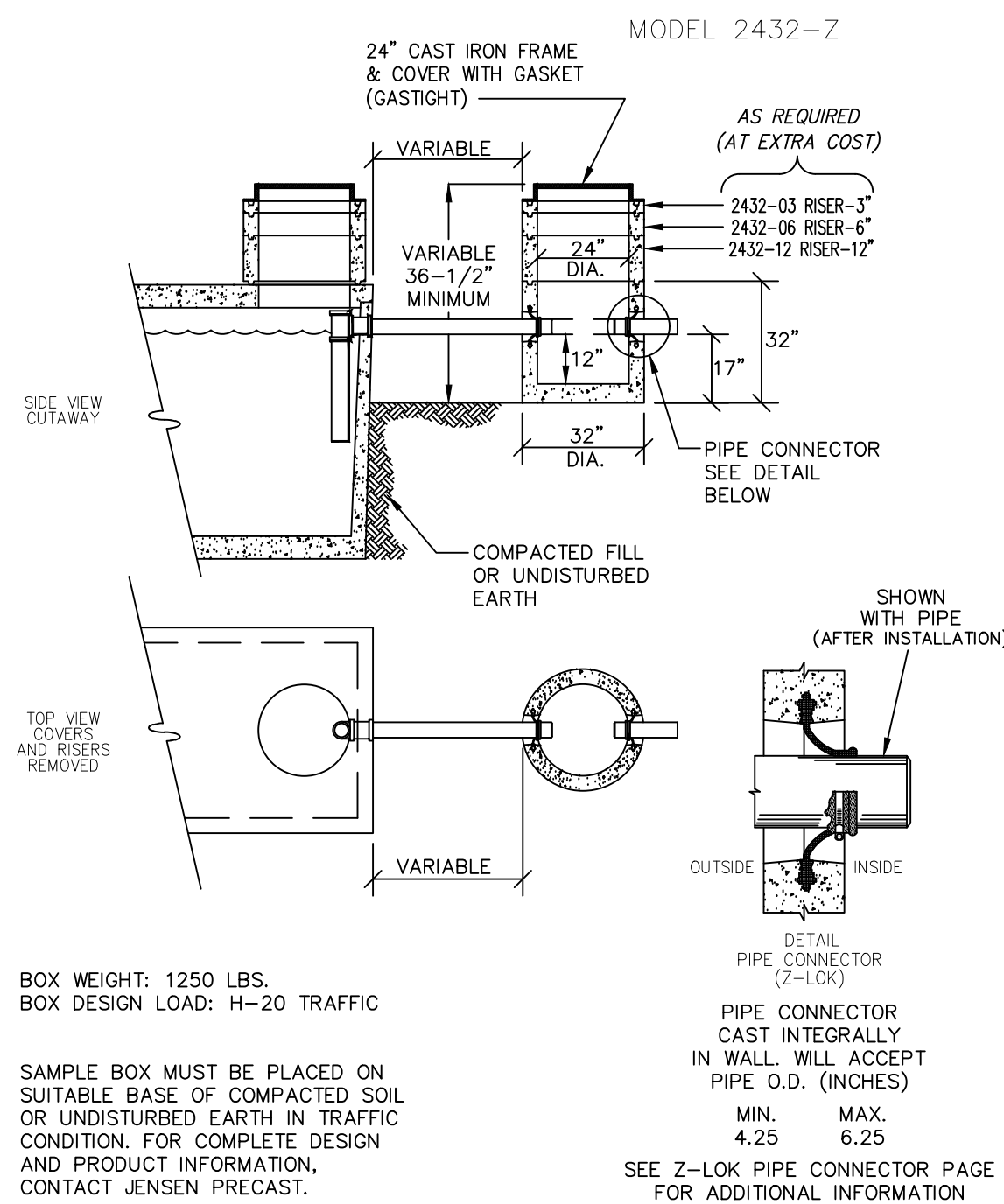
26 C-4.3 REFUSE ENCLOSURE
NOT TO SCALE



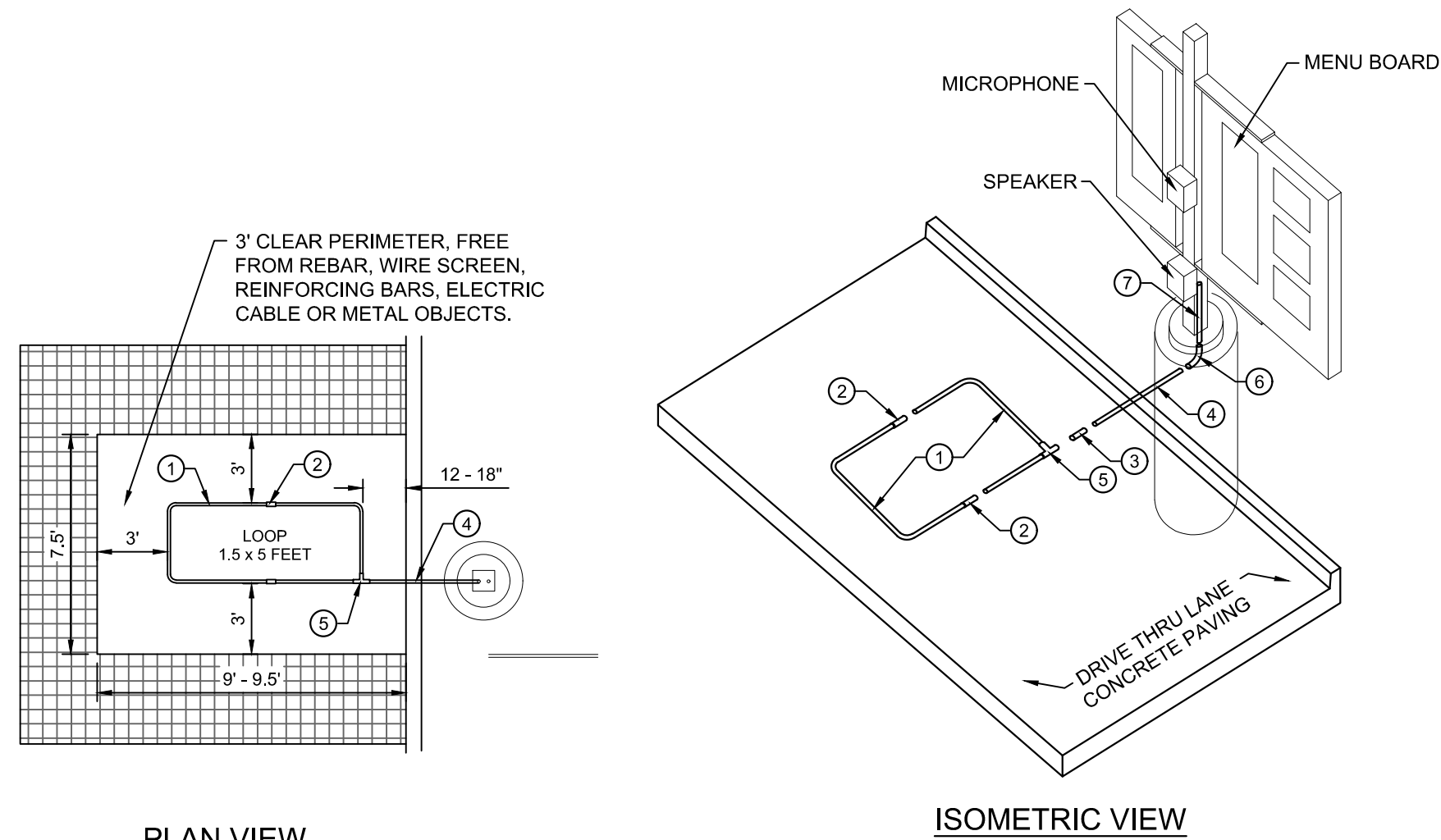
24 C-4.3 CURB-O-LET
NOT TO SCALE



27 C-4.3 1500 GALLON GREASE INTERCEPTOR
NOT TO SCALE

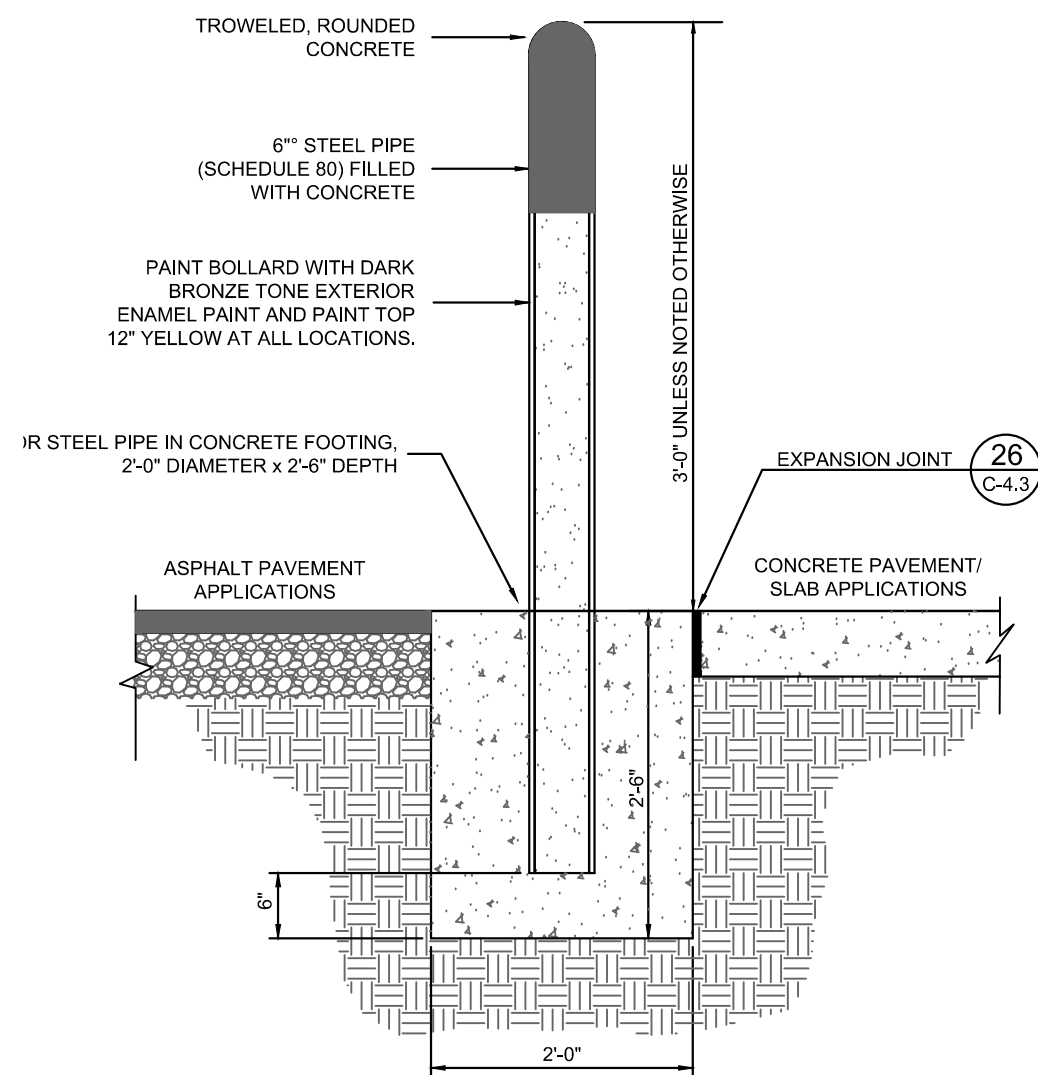


28 C-4.3 JENSEN SAMPLE BOX
NOT TO SCALE



25 C-4.3 MENU BOARD LOOP DETECTION SYSTEM
NOT TO SCALE

- NOTES:
1. LOOP DETECTOR IS MODEL NO. VDL100 VEHICLE DETECTION LOOP MANUFACTURED BY MH ELECTRONICS, INC.
 2. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.



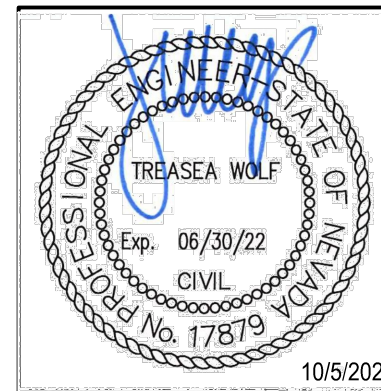
29 C-4.2 CONCRETE BOLLARD
NOT TO SCALE

NOTE: BOLLARD HEIGHT SHALL BE 5'-0" AT DRIVE-THRU WINDOW AND INSIDE DUMPSTER ENCLOSURE



Chick-fil-A
5200 Buffington Road
Atlanta, Georgia
30349-2998

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SHEET
TYPICAL
DETAILS 3
SHEET NUMBER

C4.3

CLV #: