



AGENDA

REGULAR MEETINGS OF THE ROCKLIN CITY COUNCIL, ROCKLIN PUBLIC FINANCING AUTHORITY AND SUCCESSOR AGENCY

November 08, 2016

TIME: 6:00 PM

PLACE: Council Chambers, 3970 Rocklin Road

www.rocklin.ca.us

MANNER OF ADDRESSING THE COUNCIL

Citizens may address the City Council on any item on the agenda at the time the item is considered. Citizens wishing to speak may request recognition from the Mayor by raising their hand and stepping to the podium when requested to do so. Speakers will usually be allowed five (5) minutes; however, the Mayor may set shorter time limits. Speakers are asked to identify themselves by stating their name and the city they reside in for the official record.

STANDARDS OF DECORUM

Any person who disrupts the meeting of the Council, may be barred by the presiding officer from further audience before the Council during that meeting, unless permission to continue be granted by majority vote of the Council.

All remarks shall be addressed to the Council as a body and not to any member thereof, or to staff, or to the public. No person, other than a member of the Council, the City Manager or the City Attorney and the person having the floor, shall be permitted to enter into any discussion without the permission of the presiding officer.

For items not on the agenda, and for non-hearing items on the agenda the person addressing the Council shall be limited to five minutes, unless the time is adjusted by the presiding officer.

Whenever any group of persons wishes to address the Council on the same subject matter, it shall be proper for the presiding officer to request that a spokesman be chosen by the group to address the Council and, in case additional matters are to be presented at the time by any member of the group, to limit the number of persons so addressing the Council, so as to avoid unnecessary repetition.

As a courtesy to all, please turn off cell phones and other electronic devices during the meeting.

WRITINGS RECEIVED AFTER AGENDA POSTING

Any writing related to an agenda item for the open session of this meeting distributed to the City Council, Public Financing Authority or Successor Agency less than 72 hours before this meeting is available for inspection at City Hall, 3970 Rocklin Road, Rocklin, during normal business hours. These writings will also be available for review at the council meeting in the public access binder located on the table at the back of the Council Chambers. If you have questions related to this agenda, please call 916-625-5588.

AMERICANS WITH DISABILITIES ACT

In compliance with the Americans with Disabilities Act, the City of Rocklin encourages those with disabilities to participate fully in the public hearing process. If you have a special need in order to allow you to attend or participate in our public meeting and public hearing processes, including receiving notices, agendas, and other writings in appropriate alternative formats, please contact our office at (916) 625-5588 well in advance of the public meeting or public hearing you wish to attend so that we may make every reasonable effort to accommodate you.

ELECTRONIC PRESENTATIONS

All persons with electronic presentations for public meetings will be required to bring their own laptop or other form of standalone device that is HDMI or VGA compatible. It is further recommended that presenters arrive early to test their presentations. The City is not responsible for the compatibility or operation of non-city devices or the functionality of non-city presentations.

POSTING OF AGENDA

In accordance with Government Code Section 54954.2(a) this agenda was posted on the City's bulletin board at City Hall, 3970 Rocklin Road, Rocklin, and City of Rocklin website at www.rocklin.ca.us.

AGENDA

INTRODUCTION

1. Meeting called to order at
2. Pledge of Allegiance
3. Roll Call:
 - A. Councilmembers:
 - B. City Personnel:
 - C. Commissioners:

COUNCIL REPORTS

AGENDA REVIEW

4. Agenda Modifications

CONSENT CALENDAR

The following routine matters can be acted upon by one motion. Individual items may be removed by the Council for separate discussion. The title is deemed to be read and further reading waived of any ordinance listed on the Consent Calendar for introduction or adoption.

5. [City Council Special Meeting Minutes of October 20, 2016](#)
6. [City Council, Public Financing Authority & Successor Agency Meeting Minutes of October 25, 2016](#)
7. [Special City Council Meeting Minutes of October 28, 2016](#)
8. [Quarterly Accounts Paid Report](#)
9. [Quarterly Treasurer's Report](#)
10. [Resolution of the City Council of the City of Rocklin Ratifying a Resolution Commending Chief Ron Lawrence and Recognizing 11 Years of Service](#)
11. [Resolution of the City Council of the City of Rocklin Amending the City of Rocklin Improvement Standards](#)

Staff Presentation by Justin Nartker

12. [Resolution of the City Council of the City of Rocklin Accepting and Directing the Recordation of Public Access and Public Utility Easement \(Racetrack Subdivision\)](#)

Staff Presentation by Dave Palmer

13. [Sunset at Stanford Ranch Subdivision](#)
 - A. [Resolution of the City Council of the City of Rocklin Approving the Final Map of Sunset at Stanford Ranch Subdivision and Approving and Authorizing Execution of a Subdivision Improvement Agreement](#)
 - B. [Resolution of the City Council of the City of Rocklin Approving and Authorizing Execution of a Subdivision Landscaping Agreement \(Sunset at Stanford Ranch Subdivision/SD2014-0004\)](#)

Staff Presentation by Dave Palmer

14. [Resolution of the City Council of the City of Rocklin Amending the City of Rocklin Management Salary Schedule for Fiscal Year 2016-2017](#)

Staff Presentation by Michael Green

CITIZENS ADDRESSING THE CITY COUNCIL

Members of the public may address the City Council at this time on any item of business of interest to the public that is not on the agenda. Speakers are limited to five minutes unless the time is extended by the presiding officer. Council members may briefly respond to statements made or questions asked by a speaker, but may not make any decisions or take action on any item not on the agenda.

15. NAME AND CITY

PUBLIC HEARINGS

Written Material Introduced Into the Record: Citizens wishing to introduce written material into the record at the public hearing on any item are requested to provide a copy of the written material to the City Clerk prior to the public hearing date so that the material may be distributed to the City Council prior to the public hearing.

Court challenges to any public hearing items may be limited to only those issues which are raised at the public hearing described in the notice or in written correspondence delivered to the City at or prior to the public hearing.

16. [General Plan Amendment, Placer County 2016 Local Multi-Hazard Mitigation Plan \(LHMP\) Update \(GPA2016-0005\) City of Rocklin](#)

The project is a General Plan Amendment to update the Community Safety Element of the General Plan to incorporate by reference the Placer County 2016 Local Multi-Hazard Mitigation Plan (LHMP) update consistent with the requirements of Disaster Mitigation Act of 2000 (DMA-2000), which requires local governments to update their LHMP every five years in order to be eligible for future federal disaster mitigation funding. The General Plan Amendment is initiated by the City of Rocklin and would be effective City-wide.

- A. [Resolution of the City Council of the City of Rocklin Approving the Placer County 2016 Local Multi-Hazard Mitigation Plan \(LHMP\) Update and Approving an Amendment of the City of Rocklin General Plan Community Safety Element to Incorporate by Reference the Placer County 2016 Local Multi-Hazard Mitigation Plan \(LHMP\) Update](#)

Staff Presentation by David Mohlenbrok

ORDINANCES

17. [Prohibiting Marijuana Use on Public Property](#)

- A. [Second Reading & Publication: Ordinance No. 1058 of the City Council of the City of Rocklin Adding Chapter 8.34 to the Rocklin Municipal Code Prohibiting Marijuana Use on Public Property](#)

- B. [Ordinance of the City Council of the City of Rocklin Adding Chapter 8.34 to the Rocklin Municipal Code Prohibiting Marijuana Use on Public Property to be Effective Immediately as an Urgency Measure](#)

Staff Presentation by DeeAnne Gillick

BID ACTION

18. [Rocklin Entrance Landscaping \(Pacific Street\) Project](#)

- A. [Resolution of the City Council of the City of Rocklin Approving a Notice of Exemption \(Rocklin Entrance Landscaping \(Pacific Street\) Project\)](#)
- B. [Resolution of the City Council of the City of Rocklin Authorizing the City Manager to Award the Bid for the Rocklin Entrance Landscaping \(Pacific Street\) Project](#)

Staff Presentation by David Mohlenbrok

REPORTS FROM CITY OFFICIALS/DISCUSSION AND POTENTIAL ACTION ITEMS

- 19. Announcements/Brief Reports
- 20. City Manager Report
- 21. City Attorney Communications (Verbal)

FUTURE AGENDA ITEMS

FUTURE STRATEGIC PLANNING ITEMS

PUBLIC FINANCING AUTHORITY

- 22. No Action Required

CITY COUNCIL ACTING AS SUCCESSOR AGENCY

- 23. No Action Required

ADJOURNMENT

- 24. Meeting Adjourned at



MINUTES
SPECIAL MEETING OF THE
ROCKLIN CITY COUNCIL

OCTOBER 20, 2016

TIME: 6:00 PM
PLACE: COUNCIL CHAMBERS, 3970 ROCKLIN ROAD
www.rocklin.ca.us

INTRODUCTION

1. Mayor Janda called the meeting to order at 6:00 p.m.
2. Councilmembers Present: Ken Broadway, Dave Butler, George Magnuson, Scott Yuill, Mayor Greg Janda
3. Interview Candidates for Appointment to Planning Commission

Council conducted interviews for appointment to the Planning Commission with the following applicants: Jill Gayaldo, Richard Campbell, John Flem, Debra Hamilton, Derek Long, Louis Lopez, Geoffrey McLennan, Julie Millard, Raymond Sophie and Michelle Sutherland.

Public Input: Michael Garabedian spoke in support of the process and suggested students be invited to obtain a lesson in civics.

Council deliberated and agreed to appoint Jill Gayaldo to the Planning Commission to fill a vacant term expiring in 2018.

An official resolution will be adopted at the October 25, 2016 Council Meeting.

ADJOURNMENT

4. Meeting Adjourned at 9:01 p.m.

Gregory A. Janda, Mayor

Barbara Ivanusich, City Clerk



MINUTES
REGULAR MEETINGS OF THE
ROCKLIN CITY COUNCIL,
ROCKLIN PUBLIC FINANCING AUTHORITY
AND SUCCESSOR AGENCY

October 25, 2016

TIME: 6:00 PM

PLACE: Council Chambers, 3970 Rocklin Road

www.rocklin.ca.us

INTRODUCTION

1. The Regular Meeting of the Rocklin City Council, Rocklin Public Financing Authority and Successor Agency convened at 6:03 p.m. Mayor Janda presiding.
2. Mayor Janda led the Pledge of Allegiance.
3. Roll Call:
 - A. Councilmembers: Ken Broadway, George Magnuson, Mayor Greg Janda

Dave Butler, Scott Yuill – Excused
 - B. City Personnel: Ricky A. Horst, City Manager
DeeAnne Gillick, Interim City Attorney
Jason Johnson, Administration
Marc Mondell, Community Development
Justin Nartker, Public Services
Kurt Snyder, Fire
Chad Butler, Police
David Mohlenbrok, Public Services
Karen Garner, Recreation, Arts & Event Tourism
Michael Young, City Manager's Office
Barbara Ivanusich, City Clerk
 - C. Commissioners: None

COUNCIL REPORTS

Mayor Janda reported attendance and the Placer County Air Pollution Control District meeting.

Councilmember Broadway reported attendance at the Union Pacific Railroad breakfast.

AGENDA REVIEW

4. Agenda Modifications

Mayor Janda moved Item No. 13 after Item No. 16.

CONSENT CALENDAR

5. City Council, Public Financing Authority & Successor Agency Meeting Minutes of October 11, 2016
6. Resolution No. 2016-236 of the City Council of the City of Rocklin Accepting the Public Work Known as 2016 Roadway Resurfacing Project (High Density Mineral Bond) Approving the Notice of Completion Thereof, and Authorizing and Directing the Execution and Recordation of Said Notice on Behalf of the City (Sierra Nevada Construction, Inc.)
7. Resolution No. 2016-237 of the City Council of the City of Rocklin Amending Resolution No. 2016-214 Making Appointments to the Various Boards and Commissions to Appoint a Member of the Planning Commission

Motion to approve Item Nos. 5-7 on the Consent Calendar by Councilmember Magnuson, seconded by Councilmember Broadway. Passed by the following vote:

Ayes:	Magnuson, Broadway, Janda
Noes:	None
Absent:	Butler, Yuill
Abstain:	None

OATH OF OFFICE

8. Swear In New Planning Commissioner

Barbara Ivanusich administered the Oath of Office to Jill Gayaldo, Planning Commissioner.

CITIZENS ADDRESSING THE CITY COUNCIL

9. NAME AND CITY – none.

PUBLIC HEARINGS

10. CONTINUED FROM SEPTEMBER 13, 2016 - Placer Creek Corporate Center Community Facilities District No. 1 Annexation No. 52
 - A. Resolution of the City Council of the City of Rocklin of Annexation of Territory to Community Facilities District No. 1 (52nd Annexation), Authorizing the Levy of a Special Tax and Submitting Levy of Tax to Qualified Electors (Placer Creek Corporate Center)

- B. Resolution of the City Council of the City of Rocklin Declaring Results of Special Annexation Election, Determining Validity of Prior Proceedings, and Directing Recording of Amended Notice of Special Tax Lien Pertaining to Community Facilities District No. 1 (52nd Annexation) (Placer Creek Corporate Center)

ITEM CONTINUED TO JANUARY 10, 2017

11. CONTINUED FROM SEPTEMBER 13, 2016 - Placer Creek Corporate Center Community Facilities District No. 5 Annexation No. 40

- A. Resolution of the City Council of the City of Rocklin of Annexation of Territory to Community Facilities District No. 5 (40th Annexation), Authorizing the Levy of a Special Tax, and Submitting Levy of Tax to Qualified Electors (Placer Creek Corporate Center)
- B. Resolution of the City Council of the City of Rocklin Declaring Results of Special Annexation Election, Determining Validity of Prior Proceedings, and Directing Recording of Amended Notice of Special Tax Lien Pertaining to Community Facilities District No. 5 (40th Annexation) (Placer Creek Corporate Center)

ITEM CONTINUED TO JANUARY 10, 2017

12. CONTINUED FROM SEPTEMBER 13, 2016 - Resolution of the City Council of the City of Rocklin Declaring Results of Assessment Ballot Proceeding, Finding no Majority Protest, and Authorizing Levy of Increased Assessments (Landscaping and Lighting District No. 2 ZOB 84) (Placer Creek Corporate Center))

ITEM CONTINUED TO JANUARY 10, 2017

BID ACTION

14. ADA Ramp Upgrades

- A. Resolution No. 2016-238 of the City Council of the City of Rocklin Approving a Notice of Exemption (ADA Ramps Repair Project: Various Locations Citywide)
- B. Resolution No. 2016-239 of the City Council of the City of Rocklin Authorizing the City Manager to Award the Bid for the ADA Ramp Upgrades

Justin Nartker presented the staff report.

Motion to approve Item Nos. 14.A. and B. by Councilmember Magnuson, seconded by Councilmember Broadway. Passed by the following vote:

Ayes:	Magnuson, Broadway, Janda
Noes:	None
Absent:	Butler, Yuill
Abstain:	None

15. Police Department Parking Lot Extension

- A. Resolution No. 2016-240 of the City Council of the City of Rocklin Approving a Notice of Exemption (Police Department Parking Lot Extension)
- B. Resolution No. 2016-241 of the City Council of the City of Rocklin Authorizing the City Manager to Award the Bid for the Police Department Parking Lot Extension

Justin Nartker presented the staff report.

Motion to approve Item Nos. 15.A. and B. by Councilmember Magnuson, seconded by Councilmember Broadway. Passed by the following vote:

Ayes:	Magnuson, Broadway, Janda
Noes:	None
Absent:	Butler, Yuill
Abstain:	None

16. Whitney Community Park Backstop Pole Replacement

- A. Resolution No. 2016-242 of the City Council of the City of Rocklin Approving a Notice of Exemption (Whitney Community Park Backstop Pole Replacement)
- B. Resolution No. 2016-243 of the City Council of the City of Rocklin Authorizing the City Manager to Award the Bid for the Whitney Community Park Backstop Pole Replacement

David Mohlenbrok presented the staff report.

Motion to approve Item Nos. 16.A. and B. by Councilmember Broadway, seconded by Councilmember Magnuson. Passed by the following vote:

Ayes:	Broadway, Magnuson, Janda
Noes:	None
Absent:	Butler, Yuill
Abstain:	None

ORDINANCES

13. Prohibiting Marijuana Use on Public Property

DeeAnne Gillicks's presentation highlighted:

- Adult Use of Marijuana Act Proposition 64 November 8, 2016 Statewide Ballot
- Personal Use, Restrictions on Personal Use, Personal Cultivation
- State Licensing Commercial Operations
- Proposed Municipal Code Chapter 8.34 Prohibiting Marijuana Use on Public Property

- A. Ordinance of the City Council of the City of Rocklin Adding Chapter 8.34 to the Rocklin Municipal Code Prohibiting Marijuana Use on Public Property to be Effective Immediately as an Urgency Measure

Item 13.A. continued to November 8, 2016

- B. First Reading & Publication: Ordinance No. 1058 of the City Council of the City of Rocklin Adding Chapter 8.34 to the Rocklin Municipal Code Prohibiting Marijuana Use on Public Property

Motion to Read by Title Only Item No. 13.B. by Councilmember Magnuson, seconded by Councilmember Janda. Passed by the following vote:

Ayes:	Magnuson, Janda, Broadway
Noes:	None
Absent:	Butler, Yuill
Abstain:	None

Motion to approve on First Reading Item No. 13.B. by Councilmember Magnuson, seconded by Councilmember Broadway. Passed by the following vote:

Ayes:	Magnuson, Broadway, Janda
Noes:	None
Absent:	Butler, Yuill
Abstain:	None

REPORTS FROM CITY OFFICIALS/DISCUSSION AND POTENTIAL ACTION ITEMS

17. Announcements/Brief Reports – none.

18. City Manager Report

Rick Horst submitted a letter dated October 18, 2016, from the City of Roseville to David Boesch, Placer County Executive regarding the Placer Ranch Project and the Sunset Industrial Plan update.

19. City Attorney Communications (Verbal)

DeeAnne Gillick reported that sixteen applications have been received for the City Attorney recruitment.

FUTURE AGENDA ITEMS – none.

FUTURE STRATEGIC PLANNING ITEMS

A study session is scheduled for Friday, October 28, 2016, at 9:00 a.m.

PUBLIC FINANCING AUTHORITY

20. No Action Required

CITY COUNCIL ACTING AS SUCCESSOR AGENCY

21. No Action Required

CLOSED SESSION (Read Closed Session Items - Ask for Public Comment)

22. Conference with Legal Counsel – Existing Litigation
Under Government Code Section 54956.9(d)(1)
Contos v. City of Rocklin, Placer County Superior Court Case No. SCV0037018

Mayor Janda asked for public input. There being none, Mayor Janda called for the Closed Session at 6:36 p.m.

The Closed Session ended at 7:02 p.m. with no report.

ADJOURNMENT

23. Meeting Adjourned at

Gregory A. Janda, Mayor

Barbara Ivanusich, City Clerk



MINUTES

SPECIAL MEETING OF THE ROCKLIN CITY COUNCIL

OCTOBER 28, 2016

TIME: 9:00 A.M.

PLACE: COUNCIL CHAMBERS, 3970 ROCKLIN ROAD

www.rocklin.ca.us



INTRODUCTION

1. The Special Meeting of the Rocklin City Council convened at 9:00 a.m. Mayor Janda presiding.
2. Roll Call: George Magnuson, Ken Broadway, Scott Yuill, Mayor Greg Janda

Dave Butler arrived at 9:08 a.m.

STUDY SESSION ITEMS

3. Whitney Argonaut Midas (WAM) Traffic Survey and Staff Recommendations

Justin Nartker's presentation highlighted:

- Surveyed Area
- Survey Results

Public Input:

- Jim Carlson requested a four-way stop at Midas and White Oak
- Jerry Mitchell commented on modest improvements, suggested there is a much larger issue in South Placer County
- Tony Ponzo commented on an alternative road

4. Quarry Park Development

Rick Horst's presentation highlighted:

- Quarry Park – Destination Promotion an Engine of Economic Development
- Event Tourism as an Economic Development Tool
- Big Gun Quarry proposals
- Rocklin Adventures
- Encouraging Investment

Minutes of October 28, 2016

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Public Input:

- Jerry Mitchell supports the concepts

5. Parks and Trails Master Plan (if time permits)

6. Trails Strategy and Action Plan

Item Nos. 5 and 6 were not addressed.

No legislative action was taken on any of the items.

ADJOURNMENT

7. Meeting Adjourned at 11:00 a.m.

Gregory A. Janda, Mayor

Barbara Ivanusich, City Clerk



City of Rocklin

ACCOUNTS PAID LIST

for

July 01, 2016 through September 30, 2016

meeting of

November 8, 2016

A handwritten signature in blue ink, appearing to read "K. Sakovich", written over a horizontal line.

CHIEF FINANCIAL OFFICER

A handwritten date "10-13-16" in blue ink, written over a horizontal line.

DATE



City of Rocklin

Accounts Paid Summary

From: 7/1/16 To: 9/30/16

<u>Vendor Name</u>	<u>Total Amount Paid</u>
DELTA BLUEGRASS COMPANY	PROFESSIONAL SERVICES 2,988.00
3E COMPANY, INC.	PROGRAM SUPPLIES/MATERIALS 2,750.00
4LEAF, INC.	PROFESSIONAL SERVICES 117,621.29
A & A STEPPING STONE MFG INC.	PROGRAM SUPPLIES/MATERIALS 1,233.30
ADAM TAYLOR	PROFESSIONAL SERVICES 1,100.00
ADVANCED INTEGRATED PEST MANAGEMENT	MAINTENANCE CONTRACTS 976.50
ADVANCED TRAFFIC PRODUCTS INC.	PROGRAM SUPPLIES/MATERIALS 6,283.38
AFSCME DISTRICT COUNCIL 57	PAYROLL DEDUCTS PAYABLE 8,150.51
AGGIE JACK TOURING, INC.	PROFESSIONAL SERVICES 7,500.00
AIR EXCHANGE INC.	MAINTENANCE CONTRACTS 1,005.55
ALL MY BEST INC.	PROGRAM SUPPLIES/MATERIALS 960.18
ALL PHASE SECURITY, INC.	RECRUITMENT EXPENSES 1,936.00
ALLIANT INSURANCE SERVICE, INC.	INSURANCE 55,184.00
AMERICAN INSTITUTE OF CPA'S	LICENSES/MEMBERSHIPS/SUBSCRIP 255.00
AMERICAN MEDICAL RESPONSE	MACHINERY & EQUIPMENT 28,187.40
AMERICAN PLANNING ASSOCIATION	LICENSES/MEMBERSHIPS/SUBSCRIP 910.00
AMERICAN SOCIETY OF COMPOSERS & AUTHORS	LICENSES/MEMBERSHIPS/SUBSCRIP 475.81
ANIMAL DAMAGE MANAGEMENT, INC.	PROFESSIONAL SERVICES 3,000.00
ANNELORE BRISSON	PROFESSIONAL SERVICES 220.00
APPLIED LANDSCAPE MATERIALS, INC.	PARK REPAIR & MAINT NON-CAP EX 23,176.51
APPLIED VOICE & SPEECH TECHNOLOGIES, INC.	MAINTENANCE CONTRACTS 6,668.55
AQUATIC SCIENCE CENTER	PROFESSIONAL SERVICES 20,000.00
ARC DOCUMENT SOLUTIONS, LLC	REPAIR & MAINTENANCE 2,381.78
AREA RESTROOM SOLUTIONS INC.	PROFESSIONAL SERVICES 468.80
ARROW FENCE COMPANY	PARK REPAIR & MAINT NON-CAP EX 5,059.00
ASSOCIATION OF STATE FLOODPLAIN MANAGERS	TRAVEL/TRAINING/MEALS 100.00
AT&T	COMMUNICATIONS 37,237.25
AT&T MOBILITY	COMMUNICATIONS 11,464.23
ATHENS TECHNICAL SPECIALISTS, INC.	PROGRAM SUPPLIES/MATERIALS 681.00
AUBURN ROAD MUSIC LLC	PROFESSIONAL SERVICES 750.00
BAMBOO CREATIVE INC.	PROFESSIONAL SERVICES 5,833.33
BANNER BANK	INFRASTRUCTURE 22,571.93
BELKORP AG, LLC	RENTAL/LEASE 1,290.00
BENNETT ENGINEERING SERVICES	PROFESSIONAL SERVICES 20,969.95
BERCO REDWOOD, INC.	PROGRAM SUPPLIES/MATERIALS 6,302.06
BEST BEST & KRIEGER LLP	PROFESSIONAL SERVICES 153.18
BLUMENTHAL UNIFORM COMPANY, INC.	UNIFORMS 1,609.24
BOB MURRAY & ASSOCIATES	PROFESSIONAL SERVICES 3,000.00

Date and Time of Data: 10/13/16, 8:38 am

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<u>Vendor Name</u>	<u>Total Amount Paid</u>
BOLLARD ACOUSTICAL CONSULTANTS, INC.	PROFESSIONAL SERVICES 4,500.00
BOUCHARD COMMUNICATIONS GROUP	PROFESSIONAL SERVICES 5,250.00
BRIAN GOODRICH	REPAIR & MAINTENANCE 1,950.00
BRIAN WILLIAMSON	TRAVEL/TRAINING/MEALS 59.80
BROADCAST MUSIC INC.	LICENSES/MEMBERSHIPS/SUBSCRIP 1,144.81
BROWER MECHANICAL INC.	FACILITIES REPAIRS AND MAINT 4,868.24
BSN SPORTS, INC.	PROGRAM SUPPLIES/MATERIALS 1,141.29
BUSHNELL LANDSCAPE INDUSTRIES, INC.	PROFESSIONAL SERVICES 975.00
BUTTE GLENN COMMUNITY COLLEGE	TRAVEL/TRAINING/MEALS 150.00
CALIF. STATE EMPLOYMENT DEVELOPMENT DEPT.	UNEMPLOYMENT INSURANCE 7,338.12
CALIFORNIA BUILDING STANDARDS COMMISSION	STATE BLDG STANDARDS FUND 2,688.30
CALIFORNIA CARPET CENTER INC.	PROFESSIONAL SERVICES 930.00
CALIFORNIA FIRE CHIEFS ASSOCIATION	LICENSES/MEMBERSHIPS/SUBSCRIP 150.00
CALIFORNIA LANDSCAPE ASSOCIATES INC.	REPAIR & MAINTENANCE 14,901.95
CALIFORNIA MUNICIPAL STATISTICS, INC.	PROFESSIONAL SERVICES 475.00
CALIFORNIA PARK & RECREATION SOCIETY	LICENSES/MEMBERSHIPS/SUBSCRIP 295.00
CALIFORNIA STATE BOARD OF EQUALIZATION	SALES TAX 9,657.00
CALIFORNIA STATE DEPT OF CONSERV.	SEISMIC EDUCATION LIABILITY 9,271.98
CALIFORNIA STATE DEPT. OF GENERAL SERVICES	SB1186 EXPENSE 358.80
CALIFORNIA STATE DEPT. OF JUSTICE	COMMUNICATIONS 4,315.98
CALIFORNIA STATE PESTICIDE REGULATION	TRAVEL/TRAINING/MEALS 60.00
CALPERS (CERBT)	OPEB FUNDING 1,766,400.00
CALPO HOM & DONG ARCHITECTS, INC.	INFRASTRUCTURE 5,968.32
CALTRONICS BUSINESS SYSTEMS, INC.	PROGRAM SUPPLIES/MATERIALS 24.00
CAPITOL SAND & GRAVEL CO	PROGRAM SUPPLIES/MATERIALS 172.00
CATERPILLAR FINANCIAL SERVICES CORPORATION	FLEET LEASE EXPENSE 4,082.64
CCH INCORPORATED	LICENSES/MEMBERSHIPS/SUBSCRIP 439.00
CENTERPOINT ENGINEERING, INC.	INFRASTRUCTURE 202.50
CENTRAL SIERRA CHIEFS ASSOCIATION	LICENSES/MEMBERSHIPS/SUBSCRIP 40.00
CHAVAN & ASSOCIATES, LLP	PROFESSIONAL SERVICES 13,200.00
CITY OF COLFAX	TRAVEL/TRAINING/MEALS 50.00
CITY OF ROSEVILLE	HWY 65 PAYABLE 220,750.41
CLARK ROOFING, INC.	PROFESSIONAL SERVICES 1,728.00
CLASSIC TOW SERVICE	REPAIR & MAINTENANCE 1,050.00
CLEAR CHANNEL BROADCASTING	ADVERTISING/PROMOTIONAL 3,700.00
CONSOLIDATED COMMUNICATIONS	COMMUNICATIONS 2,620.41
CONTROL TECH WEST, INC.	NON-CAP. EQUIPMENT 5,455.63
COOPER OATES AIR CONDITIONING	FACILITIES REPAIRS AND MAINT 45,468.80
CORDICO PSYCHOLOGICAL CORPORATION	RECRUITMENT EXPENSES 400.00
CRAFCO, INC.	PROGRAM SUPPLIES/MATERIALS 1,481.03
CRAIG MIERS & GEORGE SCOTT ARCHITECTS, LLP	PROFESSIONAL SERVICES 7,678.54
CUSTOM PUMP & POWER INC.	PROFESSIONAL SERVICES 2,500.96
DALLAS DEKEYREL	PROGRAM SUPPLIES/MATERIALS 881.21

Date and Time of Data: 10/13/16, 8:38 am

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<u>Vendor Name</u>	<u>Total Amount Paid</u>
DARCI LANEI PACKER FRANK	PROFESSIONAL SERVICES 2,857.50
DATCO SERVICES CORPORATION	PROFESSIONAL SERVICES 1,207.50
DAVID DOWNING	MISCELLANEOUS EXP. 24,292.70
DAWSON OIL COMPANY	FUEL/OIL 979.51
DEANNA CUTLER	TRAVEL/TRAINING/MEALS 196.56
DEBRA E. CORBETT	PROFESSIONAL SERVICES 16,468.75
DIRECT 2 PRESS	GENERAL OFFICE SUPPLIES 1,515.58
DISCOVERY DOOR, INC.	PROGRAM SUPPLIES/MATERIALS 277.00
DOG & WHISTLE GOOSE CONTROL, LLC	PARK REPAIR & MAINT NON-CAP EX 4,125.00
DOMINGUEZ LANDSCAPE SERVICES INC.	PROFESSIONAL SERVICES 174,272.61
DOUGLAS EVAN THOMAS	PROFESSIONAL SERVICES 150.00
DOYLE L. LONG	REPAIR & MAINTENANCE 1,800.00
DRAGONEYE TECHNOLOGY, LLC	REPAIR & MAINTENANCE 267.95
DREAM THEATRE, INC.	OTHER LIABILITIES 779.00
ECONOMIC CONSULTING SERVICES, INC.	PROFESSIONAL SERVICES 5,043.01
EDGES ELECTRICAL GROUP, LLC	MISCELLANEOUS EXP. 13,222.50
EDUCATION CREDIT MANAGEMENT CORPORATION	PAYROLL DEDUCTS PAYABLE 20.00
ELLEN RANGE	PROFESSIONAL SERVICES 650.00
ENGEO INCORPORATED	INFRASTRUCTURE 7,136.24
ENGINEERING NEWS-RECORD	LICENSES/MEMBERSHIPS/SUBSCRIP 29.95
ENTENMANN-ROVIN COMPANY	UNIFORMS 2,079.79
ENTERPRISE FLEET MANAGEMENT	RENTAL/LEASE 563.84
FASTENAL COMPANY	PROGRAM SUPPLIES/MATERIALS 1,719.29
FEHR & PEERS	PROFESSIONAL SERVICES 58,897.50
FIRECODE SAFETY EQUIPMENT, INC.	PROGRAM SUPPLIES/MATERIALS 1,518.24
FOLSOM LAKE FORD	OTHER SERVICES 3,034.58
FOOTHILL ASSOCIATES	PROFESSIONAL SERVICES 31,810.86
FOOTHILL FIRE PROTECTION, INC.	PROFESSIONAL SERVICES 459.00
FRANCHISE TAX BOARD	PAYROLL DEDUCTS PAYABLE 3,207.67
FRED LOWE	REPAIR & MAINTENANCE 46,195.00
FUHRMAN LEAMY LAND GROUP	INFRASTRUCTURE 2,320.00
FUTURE FORD LINCOLN	OTHER SERVICES 72.50
GARRITT H. WALSH	PARK REPAIR & MAINT NON-CAP EX 32,742.50
GARRITT WALSH	PROFESSIONAL SERVICES 400.00
GERRY KENNEDY	TRAVEL/TRAINING/MEALS 79.96
GOLD COUNTRY MEDIA	ADVERTISING/PROMOTIONAL 1,772.00
GOLDEN RULE CREATIONS INC.	UNIFORMS 368.43
GP LANDSCAPE	REPAIR & MAINTENANCE 3,040.00
GRAINGER	PROGRAM SUPPLIES/MATERIALS 258.60
GREATER SACRAMENTO AREA ECONOMIC COUNCIL	LICENSES/MEMBERSHIPS/SUBSCRIP 23,868.00
GREATER SACRAMENTO SOFTBALL ASSOCIATION	PROFESSIONAL SERVICES 4,357.28
GREEN ACRES NURSERY & SUPPLY	PROGRAM SUPPLIES/MATERIALS 4,591.93
GROENIGER & COMPANY	PROGRAM SUPPLIES/MATERIALS 69.88

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<u>Vendor Name</u>	<u>Total Amount Paid</u>
HD SUPPLY WHITE CAP CONSTRUCTION SUPPLY	PROGRAM SUPPLIES/MATERIALS 47.68
HDL COREN & CONE	PROFESSIONAL SERVICES 21,924.13
HEIDI HOPPER	TRAVEL/TRAINING/MEALS 300.00
HERC EXCHANGE LLC	RENTAL/LEASE 9,726.11
HERTZ EQUIPMENT RENTAL	RENTAL/LEASE 327.88
HEURISTIC MANAGEMENT SYSTEMS INC.	MAINTENANCE CONTRACTS 5,040.00
HORIZON DISTRIBUTORS INC.	PARK REPAIR & MAINT NON-CAP EX 41,957.25
HOWARD WIRE CLOTH CO.	PROGRAM SUPPLIES/MATERIALS 4,020.00
HUNT & SONS INC.	FUEL/OIL 33,245.69
HYATT PLACE SACRAMENTO/ROSEVILLE	PROFESSIONAL SERVICES 3,658.38
IAFF ROCKLIN FIREFIGHTERS	PAYROLL DEDUCTS PAYABLE 10,890.00
ICMA RETIREMENT TRUST - 457 PTS	DEFERRED COMP PAYABLE 14,139.06
ICMA RETIREMENT TRUST-401-MF	DEFERRED COMP PAYABLE 16,546.82
ICMA RETIREMENT TRUST-457	DEFERRED COMP PAYABLE 180,045.12
INDUSTRIAL SAFETY SUPPLY CORP	NON-CAP. EQUIPMENT 3,280.80
INSIGHT-PUBLIC SECTOR	MAINTENANCE CONTRACTS 76,453.25
J & M PRINTING	ADVERTISING/PROMOTIONAL 7,439.03
JOHN DEERE FINANCIAL	RENTAL/LEASE 1,540.13
JOHN RIBONI	PROFESSIONAL SERVICES 750.00
JOHNSON PETROLEUM CONSTRUCTION INC.	FUEL/OIL 1,886.85
KEVIN HUNTZINGER	TRAVEL/TRAINING/MEALS 240.00
KOEFRAN INDUSTRIES, INC.	PROFESSIONAL SERVICES 250.00
KOYE MCGUIRE	OTHER SERVICES 300.00
KREE HARRISON	PROFESSIONAL SERVICES 2,500.00
KRONICK MOSKOVITZ TIEDEMANN & GIRARD	PROFESSIONAL SERVICES 1,771.92
KRONOS INCORPORATED	MAINTENANCE CONTRACTS 1,776.14
KVMR COMMUNITY RADIO	ADVERTISING/PROMOTIONAL 514.11
LAFCO	PROFESSIONAL SERVICES 15,394.80
LANGUAGE LINE SERVICES	MAINTENANCE CONTRACTS 29.82
LARRY MERRELL	TRAVEL/TRAINING/MEALS 69.00
LAW OFFICES OF LIEBERT CASSIDY & WHITMORE	PROFESSIONAL SERVICES 2,760.00
LAWRENCE J. OSBORNE	PROGRAM SUPPLIES/MATERIALS 122.10
LEAGUE OF CALIFORNIA CITIES	TRAVEL/TRAINING/MEALS 128.00
LEGAL SHIELD	PAYROLL DEDUCTS PAYABLE 698.96
LEHR AUTO ELECTRIC INC.	FLEET NON-CAPITAL 116,666.11
LEXISNEXIS	LICENSES/MEMBERSHIPS/SUBSCRIP 2,010.00
LOOMIS BASIN VETERINARY CLINIC	PROFESSIONAL SERVICES 286.00
LPS TACTICAL & PERSONAL SECURITY	UNIFORMS 1,606.47
LUCKY CLOVER EVENT MANAGEMENT MAKINEX	PROFESSIONAL SERVICES 1,759.61
USA LLC	NON-CAP. EQUIPMENT 6,057.66
MALLARD CREEK INC.	PROGRAM SUPPLIES/MATERIALS 3,437.51
MARK SEEDING SERVICES, INC.	PROFESSIONAL SERVICES 3,450.00
MARK THOMAS & COMPANY, INC.	INFRASTRUCTURE 9,513.00

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<u>Vendor Name</u>	<u>Total Amount Paid</u>
MARTHA HEISLER	PARK REPAIR & MAINT NON-CAP EX 1,536.00
MATTHEW MAXHAM	PROFESSIONAL SERVICES 4,000.00
MAUREEN KANE & ASSOCIATES, INC.	TRAVEL/TRAINING/MEALS 1,550.00
MCGUIRE & HESTER	INFRASTRUCTURE 428,866.57
MICHAEL K. KELLY	SB1186 - 70% CASP TRAINING 1,600.00
MICHAEL ROSS	MAINTENANCE CONTRACTS 158.50
MIKE DAVIS	PROFESSIONAL SERVICES 8,969.00
MILES TREASTER & ASSOCIATES	NON-CAP. EQUIPMENT 3,865.29
MIRACLE PLAYSYSTEMS, INC.	PROGRAM SUPPLIES/MATERIALS 6,364.66
MON BACK INC.	PROFESSIONAL SERVICES 11,000.00
MOTOROLA SOLUTIONS, INC.	MAINTENANCE CONTRACTS 7,200.75
MUNICIPAL CODE CORPORATION	MAINTENANCE CONTRACTS 1,228.41
MUNICIPAL EMERGENCY SERVICES, INC.	REPAIR & MAINTENANCE 445.99
MUNISERVICES, LLC	PROFESSIONAL SERVICES 3,900.00
MUSCO SPORTS LIGHTING, LLC	PROGRAM SUPPLIES/MATERIALS 1,010.83
MYRA R. SALAZAR	TRAVEL/TRAINING/MEALS 300.00
N. D. MONTGOMERY CONTRACTORS, INC.	OTHER SERVICES 4,500.00
NATALIE CONSTABLE	TRAVEL/TRAINING/MEALS 180.00
NEC CORPORATION OF AMERICA	MAINTENANCE CONTRACTS 8,374.60
NEIGHBORLY PEST MANAGEMENT	PARK REPAIR & MAINT NON-CAP EX 9,330.00
NET TRANSCRIPTS INC.	PROFESSIONAL SERVICES 141.75
NETWORK DESIGN ASSOCIATES	MAINTENANCE CONTRACTS 1,167.00
NI GOVERNMENT SERVICES INC.	COMMUNICATIONS 85.71
NICK BOZZA	INFRASTRUCTURE 73,961.69
NORMAC	PROGRAM SUPPLIES/MATERIALS 46,727.88
NORTH AMERICAN TITLE	INTEREST INCOME 45.92
NORTHERN CALIF CITIES SELF INS FUND	INSURANCE 896,007.50
OCCU-MED, LTD.	PROFESSIONAL SERVICES 2,195.00
OCEAN SHORE PRINTING	ADVERTISING/PROMOTIONAL 75.25
OMNI-MEANS LTD	PROFESSIONAL SERVICES 24,069.38
ONE TIME PAY	PROFESSIONAL SERVICES 26,950.32
OPENGOV, INC.	MAINTENANCE CONTRACTS 2,500.00
PACIFIC GAS & ELECTRIC CO.	UTILITIES 343,018.55
PARCEL QUEST	MAINTENANCE CONTRACTS 7,241.70
PAUL C. NIPPERT AND ELIZABETH NIPPERT TRUSTEES OF	LOANS PAYABLE 34,000.00
PAUL RICE, JR.	REPAIR & MAINTENANCE 1,513.07
PAULING DEVELOPMENT, INC.	PROFESSIONAL SERVICES 150.00
PERS LONG TERM CARE PROGRAM	PAYROLL DEDUCTS PAYABLE 279.96
PETDATA	ANIMAL LICENSE 4,251.20
PETER PETTY	PROFESSIONAL SERVICES 2,500.00
PHYSIO-CONTROL, INC.	NON-CAP. EQUIPMENT 9,589.00
PICTOMETRY INTERNATIONAL CORP.	MAINTENANCE CONTRACTS 16,076.68
PLACER COUNTY ADMIN SCVS - ANIMAL CONTROL	PROFESSIONAL SERVICES 35,529.00

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<u>Vendor Name</u>	<u>Total Amount Paid</u>
PLACER COUNTY ADMINISTRATIVE OFFICES	COUNTY IMPACT FEE 646,855.72
PLACER COUNTY AIR POLLUTION CONTROL DISTRICT	PROFESSIONAL SERVICES 30,588.37
PLACER COUNTY ANIMAL SERVICES	PROFESSIONAL SERVICES 263.00
PLACER COUNTY AUDITOR-CONTROLLER	OTHER SERVICES 37.50
PLACER COUNTY CLERK-RECORDER	PROFESSIONAL SERVICES 253.75
PLACER COUNTY ENVIRONMENTAL HEALTH	PROFESSIONAL SERVICES 3,015.50
PLACER COUNTY FLOOD CONTROL & CONSERVATION	OTHER SERVICES 67,815.57
PLACER COUNTY PUBLIC WORKS DEPARTMENT	PROFESSIONAL SERVICES 153,419.00
PLACER COUNTY SHERIFF	PAYROLL DEDUCTS PAYABLE 576.12
PLACER COUNTY WATER AGENCY	UTILITIES 334,008.52
PREMIER EVENT GRAPHICS	ADVERTISING/PROMOTIONAL 4,250.22
PSOMAS	INFRASTRUCTURE 246,967.01
QUINN HEDGES	PROFESSIONAL SERVICES 380.00
R & M REFRIGERATION	FACILITIES REPAIRS AND MAINT 337.50
R & R CREATIVE AMUSEMENT DESIGNS INC.	PROFESSIONAL SERVICES 450.00
RECOLOGY AUBURN PLACER	DUE TO OTHER ENTITIES 584.37
REGIONAL GOVERNMENT SERVICES	PROFESSIONAL SERVICES 27,162.73
RICHARD LOPEZ	PROFESSIONAL SERVICES 400.00
RINGWALD, INC.	PROFESSIONAL SERVICES 17,700.00
RK HOME REPAIR, INC.	OTHER SERVICES 6,596.58
ROBERT RINGWALD	PROFESSIONAL SERVICES 1,800.00
ROCKLIN POLICE OFFICERS ASSOCIATION	PAYROLL DEDUCTS PAYABLE 20,966.06
ROCKLIN PUBLIC SAFETY	PAYROLL DEDUCTS PAYABLE 90.00
ROCKLIN RANCH VETERINARY HOSPITAL	PROFESSIONAL SERVICES 752.52
ROCKLIN UNIFIED SCHOOL DISTRICT	RENTAL/LEASE 146,786.44
ROGER L. BLEVINS, JR.	PROFESSIONAL SERVICES 3,720.00
RON GIBSON	OTHER SERVICES 92.50
ROY E. RUHKALA	INFRASTRUCTURE 13,531.50
RUHKALA GRANITE & MARBLE CO INC.	PROGRAM SUPPLIES/MATERIALS 2,185.00
SABAH INTERNATIONAL INCORPORATED	MAINTENANCE CONTRACTS 3,779.10
SAC VAL JANITORIAL SUPPLY	NON-CAP. EQUIPMENT 25,642.53
SACRAMENTO AREA COUNCIL OF GOVERNMENTS	LICENSES/MEMBERSHIPS/SUBSCRIP 10,734.00
SACRAMENTO COUNTY	MAINTENANCE CONTRACTS 2,547.00
SACRAMENTO COUNTY SHERIFF'S DEPARTMENT	PROFESSIONAL SERVICES 2,059.97
SACRAMENTO UNIFORMS - 512	UNIFORMS 69.07
SACRAMENTO VALLEY ALARM SECURITY SYSTEMS, INC.	MAINTENANCE CONTRACTS 117.60
SAFE RESTRAINTS, INC.	PROGRAM SUPPLIES/MATERIALS 1,224.13
SAM'S CLUB	NON-CAP. EQUIPMENT 1,178.53
SCOTT & SONS WEED CONTROL	REPAIR & MAINTENANCE 30,128.30
SCOTT HOLCOMB	OTHER SERVICES 650.00
SEALE SIGNS, INC.	PROFESSIONAL SERVICES 860.00
SEAN C. QUINE	COMMUNICATIONS 2,486.53
SECURITY & ASSET MANAGEMENT, LP	PROFESSIONAL SERVICES 12,393.74

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<u>Vendor Name</u>	<u>Total Amount Paid</u>
SENIORS FIRST, INC.	PROFESSIONAL SERVICES 4,815.66
SERVPRO OF AUBURN/ROCKLIN	PROFESSIONAL SERVICES 570.00
SHARON WHITAKER	TRAVEL/TRAINING/MEALS 120.00
SHAWN BAIRD	TRAVEL/TRAINING/MEALS 420.00
SHERBURN L. HINKLEY	INSURANCE CLAIM EXPENDITURE 2,200.00
SHERWIN-WILLIAMS	PROGRAM SUPPLIES/MATERIALS 203.54
SHRED-IT USA, INC.	PROFESSIONAL SERVICES 1,172.93
SIERRA COLLEGE	PROFESSIONAL SERVICES 5,040.00
SIERRA COLLEGE FOUNDATION	PROFESSIONAL SERVICES 25,000.00
SIERRA CONSULTING & IPM LLC	PROFESSIONAL SERVICES 3,333.94
SIERRA NEVADA CONSTRUCTION, INC.	REPAIR & MAINTENANCE 642,542.72
SIERRA PACIFIC TURF SUPPLY INC.	PROGRAM SUPPLIES/MATERIALS 7,360.67
SIERRA SAFETY	RENTAL/LEASE 296.70
SIERRA STRIPING INC.	PARK REPAIR & MAINT NON-CAP EX 10,450.00
SITEIMPROVE, INC.	MAINTENANCE CONTRACTS 900.00
SITEONE LANDSCAPE SUPPLY HOLDING, LLC	PARK REPAIR & MAINT NON-CAP EX 5,374.46
SKIP'S MUSIC INC.	PROFESSIONAL SERVICES 19,700.00
SOUTH PLACER M.U.D.	UTILITIES 5,340.81
SOUTH PLACER REGIONAL	SPRTA MITIGATION FEES 442,351.58
ST. FRANCIS ELECTRIC, INC.	INSURANCE CLAIM EXPENDITURE 11,712.50
STACY M. HINKLE	PROFESSIONAL SERVICES 6,667.50
STATEWIDE TRAFFIC SAFETY AND SIGNS, INC.	PROGRAM SUPPLIES/MATERIALS 9,943.12
SUBMERGE MEDIA	ADVERTISING/PROMOTIONAL 1,620.00
SUN BADGE COMPANY	ADVERTISING/PROMOTIONAL 445.12
SUN RIDGE SYSTEMS INC.	MAINTENANCE CONTRACTS 35,908.00
SUNBELT RENTALS INC.	RENTAL/LEASE 1,691.18
SUPPLYWORKS	PROGRAM SUPPLIES/MATERIALS 2,499.97
SUTTER BUTTES COMMUNICATIONS	PROGRAM SUPPLIES/MATERIALS 1,142.92
SUTTER MEDICAL FOUNDATION	RECRUITMENT EXPENSES 2,874.00
SYMBOL ARTS	UNIFORMS 601.95
SYN-TECH SYSTEMS, INC	FUEL/OIL 733.00
SYTECH SOLUTIONS	PROFESSIONAL SERVICES 3,750.00
TEICHERT CONSTRUCTION	INFRASTRUCTURE 3,181,609.91
TERRI TINSLEY	PROFESSIONAL SERVICES 396.00
TESCO CONTROLS INC.	REPAIR & MAINTENANCE 35,556.70
TETRA TECH, INC.	PROFESSIONAL SERVICES 8,184.85
THAT'S ENTERTAINMENT INTERNATIONAL	PROFESSIONAL SERVICES 750.00
THE ACTIVE NETWORK, INC.	MAINTENANCE CONTRACTS 21,495.48
THE GATHERING INN	PROFESSIONAL SERVICES 50,000.00
THE LINCOLN NATIONAL LIFE INSURANCE COMPANY	LIFE BENEFITS PAYABLE 5,080.17
THERESE ROUNGEVILLE HOLLEMAN OYARZUN	PROFESSIONAL SERVICES 60,660.00
THYSSEN-KRUPP ELEVATOR	MAINTENANCE CONTRACTS 1,421.04
TIM R. STEVENSON	OTHER SERVICES 1,140.00

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<u>Vendor Name</u>	<u>Total Amount Paid</u>
TIMOTHY D. GLISSMAN	OTHER SERVICES 32,972.50
TREBRON COMPANY, INC.	MAINTENANCE CONTRACTS 3,900.29
TSD ENGINEERING, INC.	PROFESSIONAL SERVICES 4,725.00
U.S. BANK NATIONAL ASSOCIATION	FUEL/OIL 13,964.59
UBORA ENGINEERING & PLANNING	INFRASTRUCTURE 8,816.00
ULTRA LINK CABLING SYSTEMS, INC.	OTHER SERVICES 578.70
ULTRA THIN INC.	UNIFORMS 96.25
UNDERGROUND SERVICE ALERT	LICENSES/MEMBERSHIPS/SUBSCRIP 4,021.54
UNION BANK CORPORATE TRUST	PROFESSIONAL SERVICES 2,225.00
UNITED WAY	PAYROLL DEDUCTS PAYABLE 117.72
USPS - HASLER	POSTAGE 5,000.00
VALLEY FIRE & SECURITY ALARMS, INC.	MAINTENANCE CONTRACTS 357.00
VALLEY ROCK LANDSCAPE MATERIAL	PROGRAM SUPPLIES/MATERIALS 1,316.74
VERIZON BUSINESS	COMMUNICATIONS 273.03
VERIZON WIRELESS	COMMUNICATIONS 23,216.62
VIEVU LLC	REPAIR & MAINTENANCE 1,323.72
VIRTUAL PM INC.	MAINTENANCE CONTRACTS 1,500.00
VISION SOCCER TRAINING INC.	PROFESSIONAL SERVICES 897.00
VORTEX INDUSTRIES, INC.	FACILITIES REPAIRS AND MAINT 2,415.98
VULCAN MATERIALS COMPANY	PROGRAM SUPPLIES/MATERIALS 3,221.50
WABASH VALLEY MFG, INC.	PROGRAM SUPPLIES/MATERIALS 1,256.93
WATERWORKS AQUATIC MANAGEMENT, INC.	PROFESSIONAL SERVICES 1,030.31
WAVE BROADBAND	COMMUNICATIONS 3,000.00
WEST COAST FRAME & COLLISION REPAIR, INC	VEHICLE & EQUIPMENT PARTS 95.08
WEST YOST & ASSOCIATES INC.	INFRASTRUCTURE 705.96
WHITNEY OAKS GOLF CLUB	UTILITIES 4,947.26
WILLDAN ENGINEERING	PROFESSIONAL SERVICES 4,142.91
WILLDAN FINANCIAL SERVICES	PROFESSIONAL SERVICES 21,082.60
YORK RISK SERVICES GROUP, INC.	PROFESSIONAL SERVICES 389.15
YOUNGDAHL CONSULTING GROUP	PROFESSIONAL SERVICES 1,357.00
ZACH BOSCH	TRAVEL/TRAINING/MEALS 709.74
ZAP MANUFACTURING INC.	PROGRAM SUPPLIES/MATERIALS 796.51
ZEE MEDICAL SERVICE	GENERAL OFFICE SUPPLIES 111.31
ZUMAR INDUSTRIES INC.	PROGRAM SUPPLIES/MATERIALS 2,577.90
US BANK	JUN-AUG CALCARD PAYMENT 519,641.28
	Total: <u>\$12,802,278.73</u>

September-16


CITY OF ROCKLIN
TREASURER'S REPORT OF INVESTMENTS & CASH



DEPOSITORY	PURCHASE DATE	MATURITY DATE	RATE %	AMOUNT	TOTAL AMOUNT	ANNUALIZED INT. RETURN	SPECIAL NOTES
LOCAL AGENCY INVESTMENT FUND							
			0.634	\$20,901,256	\$20,901,256	\$132,514	Type: State Pooled Investment Account Considered 1 day funds
CITIGROUP INC.							
	12/11/1998	02/15/2098	6.875	\$20,000	\$20,000	\$1,375	Coupon Rate: 6.875 Cost is reported Market Value: \$28,562.9 Par Value: \$20,000 Type: Corporate Bond
PLACER COUNTY TREASURER'S INVESTMENT PORTFOLIO							
			1.291	\$10,367,755	\$10,367,755	\$133,848	Type: County Pooled Investment Account Considered 1 day funds
COMMUNITY FACILITIES DISTRICT NO. 11 SPECIAL TAX BOND							
	02/29/12	VARIOUS	8.00	\$6,210,302	\$6,210,302	\$496,824	Coupon Rate: 8.00 Cost is reported Par Value: \$6,210,302 Type: Special Tax Bond
TOTAL INVESTMENTS					<u>\$37,499,312</u>	\$764,561	
AVERAGE PERCENTAGE ON INVESTMENTS			2.039%	WEIGHTED AVERAGE MATURITY 1.6 years			

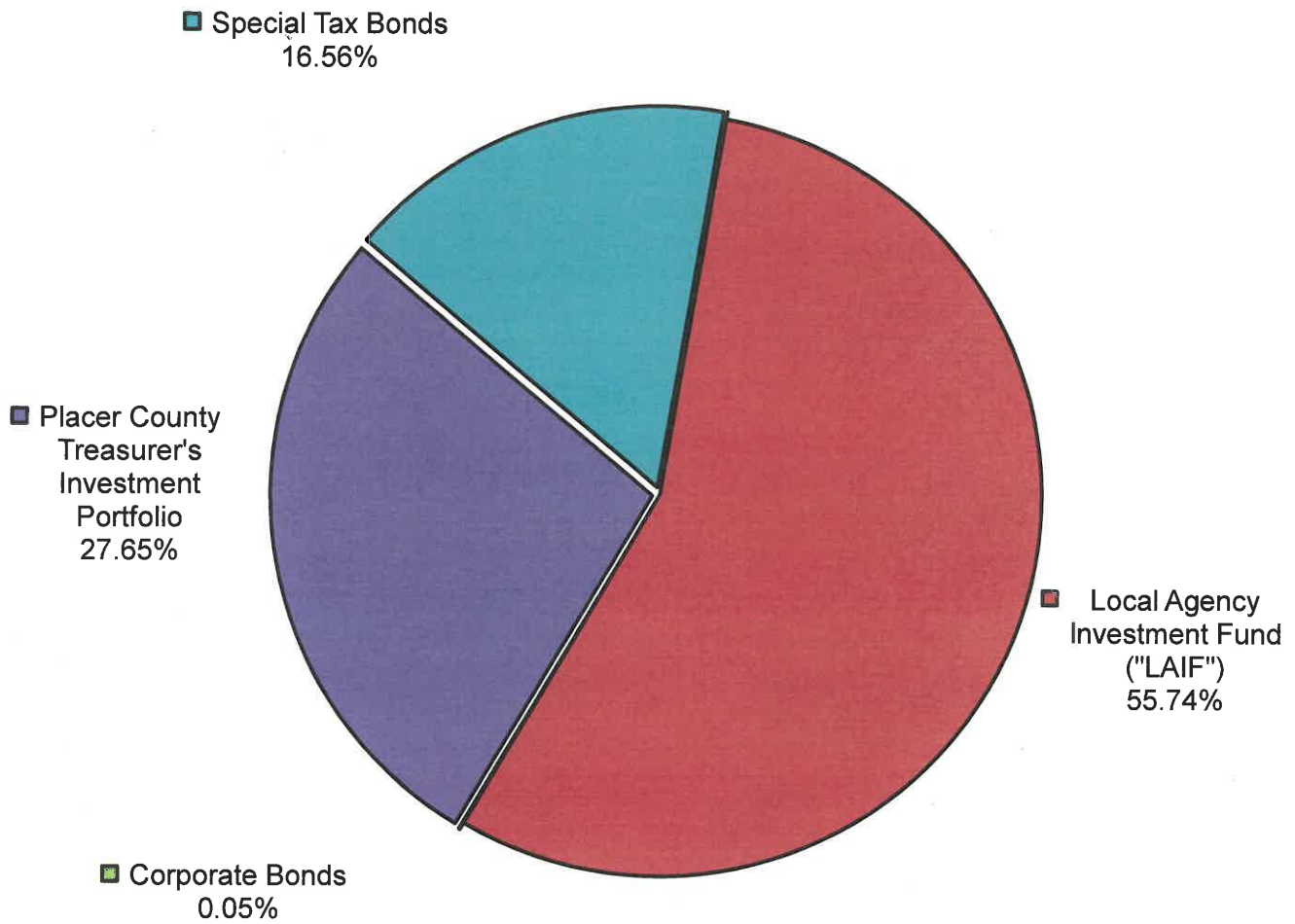
Sources of pricing as reported by Wells Fargo Investments.

I hereby certify that the above amounts and locations of accounts represent the total investments of the City of Rocklin as of the date of this report and that the investments are in conformity with Legislative Policy #1 as restated in Resolution 2016-158 on June 28, 2016. I hereby certify that the City of Rocklin has sufficient funds available to meet its expenditure requirements for the next six months.


 KIM SARKOVICH
 CITY TREASURER


 RICKY A. HORST
 CITY MANAGER

CITY OF ROCKLIN INVESTMENT REPORT for the Month of September 2016





RESOLUTION NO. 2016-

RESOLUTION OF THE CITY COUNCIL
OF THE CITY OF ROCKLIN RATIFYING A RESOLUTION
COMMENDING CHIEF RON LAWRENCE
AND RECOGNIZING 11 YEARS OF SERVICE

WHEREAS, in 2006, Ronald A. Lawrence joined the Rocklin Police Department as Captain commanding the Support Services Division. Among many accomplishments, most notably being appointed to Chief of Police on April 1, 2011, Chief Lawrence strengthened regional partnerships and was instrumental in the success of such programs as the Rocklin-Roseville SWAT, Regional Auto Theft Task Force, and continued CALEA Accreditation; and

WHEREAS, Chief Lawrence led the Police Department and implemented team strategies, enhanced communication and morale, and fostered a lasting, positive partnership with the community; and

WHEREAS, Chief Lawrence has represented the Department and the City on many boards and projects during his tenure as Chief of Police. He served as Board Member for Stand Up Placer from 2009 to 2012, and presently serves as Vice President on the California Police Chief's Association Board; and

WHEREAS, Chief Lawrence developed a recognition ribbon to proudly adorn class A uniforms — a program identifying accomplishments, honors, and awards. Chief Lawrence spearheaded the commemoration of the one-hundred-year anniversary of Rocklin's first officer killed in the line of duty — Marshal Sam Renaldi, 1914 — by designing a memorial badge and permanent Peace Officer Memorial. The Memorial stands in front of the Police Department Building memorializing Marshal Renaldi and Officer Matt Redding, who also tragically lost his life while nobly serving his community; and

WHEREAS, Chief Lawrence built a strong framework of a police agency that has attained the vision of "being known far and wide for excellence"; and

WHEREAS, Chief Lawrence will forever be recognized as an inspiring leader and a man of great character and judgement, respected widely throughout the community and among his colleagues.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Rocklin as follows:

Section 1. The City Council hereby extends its sincere gratitude to Chief Lawrence for his dedication to our community of Rocklin during the past 11 years. The City Council hereby congratulates Chief Lawrence and wishes him and his family all the best in his new role as Chief of Police for the City of Citrus Heights.

PASSED AND ADOPTED this 8th day of November, 2016, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

ABSTAIN: Councilmembers:

Gregory A. Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk



City Council Report

Subject: City of Rocklin Improvement Standards

Submitted by: Rick Forstall, Director
Justin Nartker (Presenter)

Date: November 8, 2016

Department: Public Services

- **Staff Recommendation:** It is recommended that the City Council of the City of Rocklin approve the resolution amending the City of Rocklin Improvement Standards and Standard Drawings.
-

BACKGROUND:

On April 26, 1994, the City Council approved Resolution No. 94-98 adopting the Construction Improvement Standards and Standard Drawings. The purpose of the City standards is to regulate and guide the design and preparation of plans for construction of streets, highways, alleys, drainage, street lighting facilities and related public improvements. In addition, these standards set guidelines for all private works which involve drainage, grading, trees, and related improvements. These standards are applied to improvements and private works that will be dedicated to the public and accepted by the City for maintenance and/or operation.

The City's Improvement Standards have been updated multiple times since their inception with the last complete update in March of 2006. This update will bring the standards current and in line with accepted practices and newer design criteria. As part of this effort staff, including the City Engineer, have updated and reviewed this latest revision. In addition, the standards have been compared with Caltrans and other agency's standards to ensure best practices are in place.

FINDINGS & ALTERNATIVES

Findings:

- On April 26, 1994, the City Council approved Resolution No. 94-98 adopting the Construction Improvement Standards and Standard Drawings.
- The Improvement Standards and Standard Drawings have been updated numerous times with the last complete update in March of 2006.
- The Improvement Standards and Standard Drawings regulate and guide the design and preparation of construction plans.
- In addition, these standards set guidelines for all private works which involve drainage, grading, trees, and related improvements.
- Staff, including the City Engineer, have updated and reviewed this latest revision as well as, comparing them with Caltrans and other agency's standards to ensure best practices are in place.

-
- Updates are included with each exhibit identifying all changes that have been made.
 - Staff is proposing changes to bring City standards in line with accepted practice and newer design criteria.

Alternatives:

- N/A

Conclusion & Recommendation:

- Staff recommends that the City Council of the City of Rocklin approve and adopt the revised Improvement Standards.

Fiscal Impact:

- None



Ricky A. Horst, City Manager
Reviewed for Content



DeeAnne Gillick, Interim City Attorney
Reviewed for Legal Sufficiency

RESOLUTION NO. 2016-

RESOLUTION OF THE CITY COUNCIL
OF THE CITY OF ROCKLIN
AMENDING THE CITY OF ROCKLIN
IMPROVEMENT STANDARDS

The City Council of the City of Rocklin does resolve as follows:

Section 1. The City Council of the City of Rocklin hereby amends the City of Rocklin Improvement Standards and Standard Drawings, in the form attached hereto as Exhibit 1 and Exhibit 2 and by this reference incorporated herein.

PASSED AND ADOPTED this 8th day of November, 2016, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

ABSTAIN: Councilmembers:

Gregory A Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk

d:\legal\administration\contractor services agreement
REV. 6/10/14

EXHIBIT 1

Improvement Standards Updates November 2016

The existing Improvement Standards have updated and the changes are listed below. In addition to the listed items, the Improvement Standards were edited for consistency and flow. Abbreviations “ft. and in.” where replaced with the markings ‘ for ft. and “ for in. All sections have been combined into one document, which includes the Table of Contents (TOC). For ease of use, hyperlinks have been set up to allow online users the ability to select a section from the TOC and take them to that section; it will also take them back to the TOC.

Section 1 – Purpose and Definitions

- 1.1 Purpose – Re-worded for grammatical flow.
- 1.2 Design Practice – Changed “as required by the Engineering Services Manager” amended to “as required by the City Engineer”.
- 1.3 Definitions – Director, changed “Engineering Services Manager” to “City Engineer”; changed “Director of Public Works” to “Director of Public Services”

Section 2 – General Requirements

- 2-2 Approved Plans - Changed “Director” to “City Engineer”
- 2-4 Work in City Rights of Way, Easements and Waterways – Changed “Department of Public Works” to “Department of Public Services”
- 2-5 Improvement Plan Submittal – “Five (5) sets of plans” changed to “Six (6) sets of plans (seven (7) sets if landscaping plans are included”); replaced “Director” with “City Engineer”
- 2-6 Improvement Plan Resubmittal – Changed “three complete sets of plans” to “Four (4) sets of plans”; Plans which involve trunk drainage shall consist of “five (5) sets” instead of “four sets”; changed “Director” to “City Engineer”
- 2-7 Plan Check and Inspection Fee – Added “Any City costs incurred over and above the deposit will be charged to the developer”
- 2-8 Plan Approval – Changed “Director” to “City Engineer”
- 2-9 Final Plans Required - Changed “Director” to “City Engineer”
- 2-10 Improvement Plan Revisions During Construction - Changed “Director” to “City Engineer”
- 2-11 Record Drawings – Changed “submit 3 sets and a set of reproducible” to “submit 2 sets of full-size, 2 sets of half-size, and a CD or USB drive with PDF’s”
- 2-12 Pad Certification - Changed “submit 3 sets” to “submit 2 sets of full-size, 2 sets of half-size, and a CD or USB drive with PDF’s.”; changed “Section 9-8” to “Section 9-7” and, Standard Drawing “1-10” to “1-1”
- 2-14 Change in Consulting Engineer - Changed “Director” to “City Engineer”
- 2-16 Tunnel Safety Requirements – “State of California Division of Industrial Safety” is now “State of California Industrial Relations”
- 2-17 Existing Utilities - Changed “Director” to “City Engineer”
- 2-20 Inspection Requirements – shall be inspected during construction by the “Director” changed to “Construction Inspector”; 3rd paragraph Changed “Director” to “City Engineer”;

Section 3 – Plan Sheet Requirements

- 3-1 Paper Details – Removed “F.A.S. sheets” (obsolete reference)

- 3-3 Title Sheet – Added “N. Assessor’s Parcel Number”; “O. City Planning Reference Number”; “P. Waste Discharger Identification Number (WDID#)”
- 3-4 Title Block – Added “City Planning Reference Number” at the end of paragraph 1
- 3-6 Plan Details – Added “K. Project Conditions”
- 3-7 Required Notes – Added <http://usanorth811.org> ; changed Department of “Public Works” to “Public Services”; added “Contractor shall restore any damaged or destroyed survey markings” per California Business and Professions Code 8759-8774.5

Section 4 – Street Types

- 4-1 Street Types - Changed “Director” to “City Engineer”; Removed 4-1, I – 80’ street detail.
- 4-2 Street Class – Numbering “1. 2. 3.” Changed to “A. B. C.” for document consistency
- 4-3 Structural Sections – The following changes were made under “B. The minimum allowable thickness of roadbed section shall be as follows”
 - 1. and 2., 6 in. aggregate base changed to 8” aggregate base
 - 5. 3 in. asphalt changed to 4” asphalt
 - 6. 2 in. asphalt changed to 3” asphalt
 - 8. a. 5 ½ in. of asphaltic concrete equals 2 in. changed to 6” of asphaltic concrete equals 3”
- 4-4 Profile Standards - Changed “Director” to “City Engineer”
- 4-5 Partial Streets - Changed “Director” to “City Engineer”
- 4-10 Sight Distance at Intersections - Changed “Director” to “City Engineer”
- 4-12 Right of Way Widths - Changed “Director” to “City Engineer”
- 4-13 Bus Turnouts - Changed “Director” to “City Engineer”
- 4-14 Intersection Widening - Changed “Director” to “City Engineer”
- 4-15 Partial Pavement Widening - Changed “Director” to “City Engineer”
- 4-17 Developer’s Pavement, Signal, and Street Light Responsibility - Changed “Director” to “City Engineer”
- 4-18 City Cost Participation - Changed “Director” to “City Engineer”
- 4-21 Testing Material - Changed “Director” to “City Engineer”
- 4-25 Trees – Added “Right of Way Approved Plant List”
- 4-26 Commercial, Industrial, and Multifamily Driveways - Changed “Director” to “City Engineer”
- 4-28 Sidewalks – Title changed from “Handicap Ramps” to “Sidewalk Ramps”; reworded with current ADA language; Changed “Director” to “City Engineer”; added “Any retrofits to existing ramps must comply with the requirements of the California Building Code”
- 4-29 Curb and Gutter - Changed “Director” to “City Engineer”; added reference to Standard Drawing 3-15A
- 4-31 Sidewalks - Changed “Director” to “City Engineer”
- 4-33 Privately Owned Bridges - Changed “Director” to “City Engineer”
- 4-34 Residential Street Name Sign - Numbering “1. 2. 3.” changed to “A. B. C.” for document consistency; updated sign finish/color material being used; added lower case letters to be 3”; referenced the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) Standards
- 4-35 Major Street Intersections Street Name Signs – Changed “The signs shall be attached at lower mast arm of the traffic signal light using standard manufactured clamp brackets” to “The signs shall be attached where the mast arm meets the pole, using the banding method”; letter size changed from “6” upper case and 4 ½” lower case to 8” upper and 6” lower; referenced New MUTCD Standards; removed “When no signal or mast arms are available, major streets name signs shall comply with Section 4-35”

- 4-36 Overhead Street Names – “4-36 Not a Through Street” was removed and replaced with “4-36 Overhead Street Names”
- 4-37 Traffic Stripes and Paving Markings – This is an added section to address updated standards
- 4-38 Painted Traffic Stripes and Pavement Markings – This is an added section to address updated standards
- 4-39 Performed Traffic Stripes and Pavement Markings – This is an added section to address quality of workmanship

Section 5 – Drainage

- 5-1 General – This is an added section that explains the City’s drainage requirements per state regulations and references the following:
 - City of Rocklin Construction Standards
 - Stormwater Quality Design Manual for the Sacramento and South Placer County Regions
 - Latest edition of the State of California Department of Transportation Standard Specifications
 - City of Rocklin Post Construction/Low Impact Development (LID) Manual
- 5-6 Pipeline Alignment Requirements – Angular changes when necessary shall not exceed “90°” to “7.5%”
- 5-6(a) Construction Staking – This is an added section to provide additional clarification
- 5-7 Pipeline Acceptance Criteria – Added “flushed and vactored” requirements
- 5-8 Drainage Easements – Removed reference to Standard Drawing 4-29
- 5-10 Drainage Structures –
 - A.-1. - Removed “non-reinforced concrete pipe”; added reference to State Specification 64-1
 - A.-3. - Changed “Director” to “City Engineer”
 - B.-3. – Added “Manhole covers greater than 24” shall have 2 piece lids”
 - B.- 4. – Standard Drawing changed from “4-11” to “4-8”
 - B.-6. – Replaced with current LID Measures
 - C. Manholes – Installation is a new section to provide clarification and consistency; sections D-H are reorganized due to the addition of section C.
 - D.-1. – Standard Drawings changed from “4-9 and 4-10” to “4-6 and 4-7”; Changed “Director” to “City Engineer”
 - E.-3. - Changed “Director” to “City Engineer”
 - F. Headwalls, Wingwalls, Endwalls, Trash Racks and Railings
 - F.-2. Standard Drawings changed from “4-30 and 4-31” to “4-15 and 4-16”; Changed “Director” to “City Engineer”
 - F.-3. – Removed reference to “Standard Drawing 4-35” and replaced with reference to “California Transportation Standard Specification 70-5 and California Transportation Standard Plans D94A and D94B”
 - G.-1. – Removed “corrugated steel pipe” and added SDR-35 pipe
 - G.-2. - Changed “Director” to “City Engineer”
 - G.-3 - Changed “Director” to “City Engineer”
- 5-11 Temporary Drainage Diversions – Replaced “Public Works” with Public Services”
- 5-12 Channels and Outfall Design - Changed “Director” to “City Engineer”;

Added the following sections to be consistent with current best management practices and updated state requirements:

- 5-12 D. Detention and Retention Basins
- 5-12 E. Access for Maintenance

- 5-13 Pipe Installation
- 5-14 Channel Lining Installations
- 5-15 Abandoning Storm Drains

Section 6 – Domestic Water Supply System - Added reference to NFPA 24 and the City of Rocklin Fire & Life Safety Standards in 6-1 Introduction – “Design of water facilities shall conform to the requirements set forth in the most recent standards of the Placer County Water Agency (PCWA), the National Fire Protection Association (NFPA 24), and the City of Rocklin Fire & Life Safety Standards”. Removed the following sections due to the references made in 6.1:

- 6-3 Water Supply Pressure
- 6-4 Required Fire Flows
- 6-5 Distribution System Layout Requirements

Section 7 – Sanitary Sewer Design – No changes to this section

Section 8 – Street Lights

- 8-6 Street Light Design Details
 - E.-1. – Updated type “A” to current City product requirements
 - E.-2. – Updated type “B” to current City product requirements
 - E.-4. – Added “Contact Public Services Department to request street light numbers”
 - F. Luminaries – Removed “The luminaries shall be induction type with internal ballasts” replaced with “The luminaries shall be LED type with internal driver”
 - F. 1-4 – Reformatted and updated LED information and current City product type being used
 - G. – Added the letter “G” to “Service” paragraph
 - H. Pull Boxes (updated formatting after adding section G)
 - H.-2-3 – Combined into one paragraph (2.)
 - H.-4 – (is now H.-3)
 - K.-4 – Added All “empty” conduits
 - L. – Removed “5. Lamps”
 - M.-1. - Changed “3” diameter PVC to “2” diameter PVC
 - M. 2. - Changed from a “#6” telecommunication pull box to a “#5”

Section 9 – Grading

- 9-1 Introduction – Renamed from “General Requirements” and added additional, detailed information and references
- 9-2 Plan Sheet Details
 - F. – Added “Contour lines shall be in maximum increments of 2’ ”
 - N. – Changed from Standard Drawing “1-11” to “1-1”
 - O. – Added the following:
 - “6. Silt retention and erosion control details as necessary and specified in these Design Standards.”
 - “7. Location of temporary protective fencing for environmentally sensitive areas such as: creeks, wetlands, vernal pools, perennial streams and preserve areas.”
- 9-3 Boundary Grading
 - A. Fills – Added “All fill material shall achieve 90% relative compaction certified by a registered Geotechnical Engineer
 - A.-2 – Added “A notarized” ; added “If right-of-entry cannot be obtained, a retaining wall shall be placed as near to the property line as practicable”

- 9-4 Interior Grading – C. changed from “Cross Lot Surface Flow” to “Interior Grading” with extensive detail added
- 9-5 Retaining Walls – Added “Any retaining wall greater than 4’ from the bottom of the footing to the top of the wall will require a building permit”; removed “Redwood retaining walls shall conform to the Standard Drawing 2-3 as a minimum design. When fences are to be constructed atop redwood retaining walls, 6” x 6” posts at 4’ centers shall be used. All 6” x 6” posts shall extend above the retaining wall and act as fence posts. Alternate designs meeting UBC standards will be considered.”
- 9-6 Grading at Trees – Added extensive information to this section (see Improvement Standards)
- 9-7 Certifying Pad Elevations – Changed See City Standard Drawing “1-11” to “1-1”
- The following sections are new additions to address state requirements:
 - 9-8 Rough Grading Plan Requirements
 - 9-9 Rolling Terrain Grading
 - 9-10 Stormwater Pollution Prevention Plan (SWPPP)

Section 10 – Sound Barrier Design

- 10-5 Design Requirements – Added to clarify design life and loading conditions

Section 11 – Bikeways – This is a new section to clarify future bikeway design per the California Manual on Uniform Traffic Control Devices (MUTCD)

Section 12 – Survey Monuments

- This section was previously “Section 11 – Survey Monuments”
- C. – Added “located at the center of all cul-de-sacs and elbow points.”

Section 13 – Landscaping

- This section was previously “Section 12 – Landscaping”
- 13-4 Sidewalks
 - B. – Added “one to two percent (1 – 2%), not to exceed two percent (2%)”
 - E. – Reworded to comply with ADA, Caltrans Standard Plans, the California Building Code and City Standard Drawings 3-12 and 3-13
- 13-7 Irrigation
 - Removed “Sprinkler heads used in turfing play areas shall be equipped with protective covers” which resulted in reorganizing of items K – U.
 - P.-1. – Added “The City recommends using Wilkins, Model 975XL2”, or City approved equivalent
 - Q.-1. – Changed bulleted items to a. b. c. format for consistency
- 13-9 Lighting
 - 13.-B. – All street, park, trail, and paseo lighting shall be vandal resistant, “and have high pressure sodium vapor lamps” changed to “and LED lamps.”

CITY OF ROCKLIN
IMPROVEMENT STANDARDS



ROCKLIN
CALIFORNIA

November 2016

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SECTION 1

PURPOSE AND DEFINITIONS

1-1 PURPOSE

The purpose of these Improvement Standards is to provide direction in the application of improvements and private works to be dedicated to the public and accepted by the City for maintenance or operation, and to provide for coordinated development of those facilities to be used by and for the protection of the public. This includes certain private works, as well as improvements to be installed within existing City rights-of-way and easements. These Standards shall apply to regulate and guide the design and preparation of plans for construction of streets, highways, alleys, drainage, street lighting facilities and related public improvements, and to set guidelines for all private works which involve drainage, grading, trees, and related improvements.

1-2 DESIGN PRACTICE

It is recognized that it is not possible to anticipate all situations that may arise or to prescribe standards applicable to every situation. Therefore, any items or situations not included in these Improvement Standards shall be designed in accordance with accepted engineering practice, the City of Rocklin Standard Construction Specifications, the State of California "Highway Design Manual", the "Manual on Uniform Traffic Control Devices", and as required by the City Engineer.

1-3 DEFINITIONS

Whenever the following terms or titles are used in these standards or in any document or instrument where these standards govern, the intent and meaning shall be as specified in the City of Rocklin Standard Construction Specifications, the Rocklin Municipal Code, and as herein defined:

Construction Inspector - Shall mean the person appointed by the Director to oversee the construction of that portion of the project that is of importance to the City.

Consulting Engineer - Shall mean any person or persons, firm, partnerships or corporation legally authorized to practice civil, mechanical or electrical engineering in the State of California who prepares or submits improvement plans and specifications to the City of Rocklin Community Development Department Engineering Division for approval.

Developer - Shall mean any person or persons, firm, partnership, corporation, or combination thereof, financially responsible for the work involved.

Development - Shall mean the act or process of any construction on properties as well as subdivision improvements.

Director - Shall mean the City Engineer of the City of Rocklin acting either directly or through others in the Engineering Division or his authorized representatives. Director shall also mean the Director of Public Services where specified.

Laboratory - Shall mean any testing agency or testing firm which has been approved by the Department of Public Services.

MUTCD - Shall mean the latest edition of the Federal Manual on Uniform Traffic Control Devices and the MUTCD California supplement.

Placer County Water Agency - (PCWA) shall mean the agency that generally maintains and owns water facilities within the City of Rocklin.

South Placer Municipal Utility District - (SPMUD) shall mean the agency that generally owns and maintains sewer conveyance facilities within the City of Rocklin.

Standard Construction Specifications - Shall mean the latest standard construction specifications adopted by the City Council governing the construction of roads, streets, storm drainage, concrete structures, traffic signals, street lighting and other facilities within the City of Rocklin to provide for proper development.

Standard Drawings - Shall mean the standard drawings as set forth herein, approved by the Director with his signature thereon, and as modified, revised, or added.

State - As used in the State Specifications, shall mean City of Rocklin.

State Standard Plans - Shall mean the Standard Plans of the State of California, Department of Transportation (Latest Edition).

Traffic Control Device - Shall mean a sign, signal, marking, or other device used to regulate, warn, or guide traffic, placed on, over, or adjacent to a street, highway, pedestrian facility, or shared-use path by authority of a public agency having jurisdiction.

Urban Area - Shall mean the area within the boundary as defined by the Federal Highway Administration.

SECTION 2

GENERAL REQUIREMENTS

2-1 PLANS BY AN APPROPRIATE ENGINEER

All plans and specifications for improvements, private and public (including private onsite drainage and grading), which are to be accepted for maintenance by the City shall be prepared by a Consulting Engineer of the appropriate branch of engineering covering the work submitted.

2-2 APPROVED PLANS

Complete plans and specifications for all proposed streets, bikeways, grading, drainage facilities, street lighting, industrial developments, commercial developments, and subdivisions, including any necessary dedications, easements, and rights of entry, shall be submitted to the Engineering Division for approval. This approval must be substantiated by the signature of the City Engineer or his authorized representatives prior to the beginning of construction of any such improvements. The City Engineer or his representative shall order any Contractor to cease work on any project if said Contractor does not have properly approved plans in his possession.

2-3 REFERENCE TO CITY SPECIFICATIONS AND STANDARDS

The General Notes and Special Provisions of all plans shall include the following note:

All construction and materials shall be in accordance with the latest edition of the City of Rocklin Standard Construction Specifications, Improvement Standards and Standard Drawings.

2-4 WORK IN CITY RIGHTS OF WAY, EASEMENTS AND WATERWAYS

Possession of a complete set of City-approved engineered plans and an Encroachment Permit obtained from the Department of Public Services shall allow a contractor duly licensed by the State of California to perform work specified on the plans in City rights of way, easements and waterways. The contractor shall be bonded as required in the City of Rocklin Municipal Code.

In lieu of the above required plans, minor work within City rights of way, easements and waterways may be performed in accordance with the following:

- A. Minor work within street rights of way and easements may be performed with an encroachment permit.

Minor work generally consists of such items as widening or constructing sidewalks adjacent to the existing roadside curb and gutter, constructing driveways in existing curb and gutter, constructing asphalt concrete driveways, installing driveway culverts, regular utility work, and work which requires cutting the road surface.

The encroachment permit shall be issued in accordance with the City of Rocklin Municipal Code Section 12.04.

- B. Work within street rights of way and easements consisting of street light installations and minor work described above may be performed with an encroachment permit.

2-5 IMPROVEMENT PLAN SUBMITTAL

The initial submittal of improvement plans to the Engineering Division shall consist of the following:

- A. Six (6) sets of plans (seven (7) sets if landscaping plans are included) complete and in accordance with these Improvement Standards and the Standard Construction Specifications, along with any required specifications, computation, test data, and other material requested by the City Engineer.
- B. Two copies of the watershed map and drainage calculations in accordance with Section 5.
- C. An itemized opinion of probable costs. The improvements to be included on the estimate are as follows:
 - 1. All public facilities, excluding trunk drainage defined in Section 5. (Public facilities include all improvements within the street right of way and public improvements outside of the right of way which are to be maintained by the City, including but not limited to street lights, traffic signals, and fire hydrants.)
 - 2. All onsite underground storm drainage systems.
 - 3. Earth excavation quantities.
 - 4. Retaining and sound walls.
- D. 50% of the plan check fee in accordance with Section 2-7.
- E. The name, address and telephone number of the developer.
- F. Utility letters in accordance with Section 2-17.
- G. Two copies of the soils report.

Should there be required alterations or revisions to the plans as submitted, the City Engineer will return one copy with the corrections marked or indicated thereon. If the plans submitted are not prepared in accordance with these Improvement Standards and the Standard Construction Specifications or not in

keeping with the standards of the profession, the City Engineer may return them unmarked and unapproved.

2-6 IMPROVEMENT PLAN RESUBMITTAL

Plans being resubmitted shall consist of four (4) complete sets of plans and written response to comments and an updated itemized opinion of probable costs. Plans which involve trunk drainage, as defined by Section 5, shall consist of five (5) sets. Additional sets may be required by the City Engineer.

Plans being resubmitted that contain revisions or alternations other than those required by the City Engineer on previously corrected plans shall require the Consulting engineer to bring those revisions or alternations to the attention of the City Engineer and additional sets may be required.

2-7 PLAN CHECK AND INSPECTION FEE

When improvement plans are initially submitted to the Engineering Division for checking, 50% of the total plan check fee for the development will be required as a deposit to initiate checking of the plans.

Should the development not be carried to completion, any portion of the required deposit over and above the accumulated costs expended by the Department on the development will be refunded to the developer. Any City costs incurred over and above the deposit will be charged to the developer.

The Engineering Division shall be notified of any change of billing address.

2-8 PLAN APPROVAL

No plans will be approved nor construction authorized until such time as the City Engineer signifies his approval by his signature on the set of plans. At such time as the Consulting Engineer preparing the plans has made the necessary revisions and paid the remainder of the total plan check and inspection fee, as provided under the provisions of the City Code and amendments thereto, the City Engineer will sign the drawings in the space provided, after the Consulting Engineer has signed them. The City Engineer approval is valid for a period of 12 months. Should work not commence within the 12 month period, the plans shall be resubmitted for re-approval.

2-9 FINAL PLANS REQUIRED

The Consulting Engineer shall deliver the following number of sets of prints from the approved drawings to the City Engineer:

- 2 complete sets of full-size plans.
- 2 complete sets of half-size (11"X17") plans.

Electronic files of complete sets of plans.

One additional set of plans shall be delivered when trunk drainage facilities are shown on the plans. Additional copies of improvement plans may be requested by the City Engineer at his discretion, and these shall be furnished to the City without cost.

2-10 IMPROVEMENT PLAN REVISIONS DURING CONSTRUCTION

Should changes become necessary during construction, the Consulting Engineer shall first obtain the consent of the City Engineer and shall then resubmit the title sheet and the plan sheets affected for approval. The changes on the plans shall be made in the following manner:

- A. The original proposal shall not be eradicated from the plans but shall be lined out. All sheets originally signed by the director shall remain a part of the plan set. Substitution of sheets will be allowed with replacement sheets being numbered as: 7b, 7c, etc.
- B. In the event that eradicating the original proposal is necessary to maintain clarity of the plans, approval must first be obtained from the City Engineer.
- C. The changes shall be clearly shown on the plans with the changes and approval noted on a revision signature block, conforming to the [Standard Drawing](#).
- D. The changes shall be identified by the revision number on a triangle delineated on the plans adjacent to the change and on the revision signature block.
- E. A fee established annually by City Council will be charged to process all revisions.

Minor changes which do not affect the basic design or contract may be made upon the authorization of the, City Engineer but said changes must be shown on "Record Drawing" plans when the contract is completed.

The City Engineer may order changes in the plans in order to complete the necessary facilities. Changes in the plans ordered by the City Engineer shall conform to all of the above.

2-11 RECORD DRAWINGS

The Consulting Engineer shall keep accurate records of all approved deviations from the plans and shall provide 2 sets of plans. The Inspector will compare the submitted plans to his set and provide the Engineer a set of "redline" drawings. The Engineer shall add the Inspector's corrections or deviations to the original plans and submit 2 sets of full-size, 2 sets of half-size, and a CD or USB drive with PDF's. The standard record drawing block will be used and the block will be signed by the consulting engineer on each sheet of the plan set at time of preparation.

2-12 PAD CERTIFICATION

2 sets of full-size, 2 sets of half-size, and a CDF with PDF's certified by the Consulting Engineer of the finished pad elevations of subdivision lots shall be required prior to

issuance of a building permit and final approval of the subdivision improvements. Certification shall be in accordance with Section [9-7](#). See City [Standard Drawing](#) 1-11.

2-13 [CONFLICTS, ERRORS AND OMISSIONS](#)

Excepted from approval are any features of the plans that are contrary to, in conflict with, or do not conform to any California State Law, City of Rocklin Municipal Code or Resolution, conditions of approval, or generally accepted good engineering practice, in keeping with the standards of the profession, even though such errors, omissions or conflicts may have been overlooked in the Engineering Division's review of the plans.

2-14 [CHANGE IN CONSULTING ENGINEER](#)

If the developer elects to have a registered civil engineer or licensed land surveyor other than the engineer who prepared the plans provide the record drawings, he shall provide the City Engineer in writing the name of the individual or firm one week prior to beginning construction. The Developer shall then be responsible for providing all professional engineering services which may be required during construction, the preparation of revised plans for construction changes, and the preparation of record drawing plans upon completion of the construction.

In the Developer's notification of a change in the firm providing record drawing, he shall acknowledge that he accepts responsibility for design changes and record drawing information as noted above.

2-15 [SPMUD AND PCWA SUBMITTALS](#)

The Consulting Engineer shall submit to SPMUD and PCWA for approval and signature on improvement plans of sanitary sewer and water plans, respectfully, for improvements which are within the City of Rocklin prior to the City Engineer's signature on the improvement plans. Both City of Rocklin and Agency approval is required for such plans.

2-16 [TUNNEL SAFETY REQUIREMENTS](#)

Any boring or jacking operation of 100 feet or greater length and involving an opening greater than 30" in diameter is subject to the State of California Department of Industrial Relations tunnel safety requirements. The Contractor shall submit to the Department of Industrial Relations plans and specifications applicable to the tunnel operation, with a letter requesting tunnel classification. This procedure is also recommended to avoid project delay if there is the possibility of any personnel entering the tunnel, regardless of diameter and length. The letter should identify the Public Works agency responsible for the project, and the agency's mailing address. The plans shall identify underground utilities and tanks or areas for storing fuel and toxic gases in the vicinity of the tunnel site. The request for classification should be submitted allowing ample time for the Department of Industrial Relations review in order that any special requirements can be included in the project plans and specifications. The Contractor shall also attend the required preconstruction meeting.

2-17 **EXISTING UTILITIES** All existing utilities are to be shown on the plans. In addition, the Consulting Engineer shall submit prints of the preliminary and approved plans to the utility companies involved. This is necessary for the utilities to properly plan their relocation projects and needed additional facilities. Copies of the transmittal letters to the utility companies shall be provided to the City Engineer. The transmittal letters shall indicate all utility pole conflicts which require relocation. The conflict shall be referenced to stationing and distance from centerline. In addition, the following note shall appear on the first page of the plans: No pavement work will occur within the road right of way prior to completion of utility pole relocation.

2-18 **PARTIAL PLANS**
Where the improvement plans submitted cover only a portion of ultimate development, the plans submitted shall be accompanied by the approved tentative plan or a study plan if there is no approved tentative plan showing topographic features of the ultimate development at an adequate scale to clearly show the proposed improvements.

2-19 **OTHER AGENCY NOTIFICATIONS**
The Contractor is responsible for obtaining the approval and necessary permits of governmental or municipal agencies when their facilities are involved.

2-20 **INSPECTION REQUIREMENTS**
Any improvement constructed to the Standard Construction Specifications for which it is intended that the City will assume maintenance responsibility, shall be inspected during construction by the Construction Inspector. Each phase of construction shall be inspected and approved prior to proceeding to subsequent phases.

Private on-site grading and drainage shall be inspected during construction by the Construction Inspector.

Any improvements constructed without inspection as provided above or constructed contrary to the order or instructions of the City Engineer will be deemed as not complying with Standard Construction Specifications and will not be accepted by City of Rocklin for maintenance purposes.

Within 10 days after receiving the request for final inspection, the Construction Inspector shall inspect the work. The Contractor, Consulting Engineer, and Developer will be notified in writing as to any particular defects or deficiencies to be remedied. The Contractor shall proceed to correct any such defects or deficiencies at the earliest possible date. At such time as the work has been completed, a second inspection shall be made by the Director to determine if the previously mentioned defects have been repaired, altered, and completed in accordance with the plans. At such time as the Construction Inspector approves the work and accepts the work for the City of Rocklin, the Contractor, Consulting Engineer and Developer will be notified in writing as to the date of final approval and acceptance.

On publicly funded districts and projects where the City of Rocklin participates in the costs thereof, quantities will be verified to the satisfaction of the Director, Consulting Engineer, and Contractor, and witnessed accordingly.

SECTION 3

PLAN SHEET REQUIREMENTS

3-1 PAPER DETAILS

All improvement plans shall be prepared on plan and profile sheets 24" x 36", Plate "A" plan and profile paper, or special consulting engineer's sheets which have been accepted by the City. Scales: Horizontal 1" = 20', 40', or 50'; Vertical 1' = 2', 4', or 5', but only the scale, horizontal or vertical, for which the sheet was intended shall be used.

3-2 DRAFTING STANDARDS

Certain drafting standards have become necessary to produce legible film and subsequent prints. All line work must be clear, sharp and heavy. Letters and numerals must be 1/8" minimum height, well-formed and sharp. Numerals showing profile elevations shall not be bisected by station grid lines. Dimension lines shall be terminated by sharp solid arrowheads.

3-3 TITLE SHEET

On subdivision or improvement plans exceeding three sheets in a set, a title sheet shall be prepared showing the following:

- * A. The entire subdivision or parcel and project
- B. Public funded district limits
- C. City limits
- D. Street names and widths
- E. Adjacent subdivisions, including names, lot lines and lot numbers
- F. Property lines
- G. Public easements
- * H. Location map
- I. Scale of drawings
- * J. Index of sheets
- K. Legend of symbols
- * L. Signature block conforming to [Standard Drawing](#) 1-1 and situated at the lower right hand corner of the sheet
- M. Earthwork quantities
- N. Assessor's Parcel Number
- O. City Planning Reference Number
- P. Waste Discharger Identification Number (WDID#)

*Shall be shown on the front sheet of encroachment plans and plans consisting of three or less sheets.

3-4 TITLE BLOCK

Each sheet within the set of drawings shall have an approved title block showing the sheet title, number, date, scale, and the Consulting Engineer's name, signature and

license number; City of Rocklin, and the name of the subdivision or public funded district and City Planning Reference Number.

The preferred location is across the right hand end of the sheets. This will facilitate the common method of plan storage by allowing the plan information to be viewed with the plans rolled up.

3-5 DRAINAGE, SEWER, WATER AND GRADING LAYOUT

On all plans, the storm drainage, sanitary sewer and domestic water systems shall be shown on an overall plan layout. In addition, the storm drainage and sanitary sewer systems shall be shown on the street plans. Separate grading plans will be required for all subdivisions. On all other plans, an overall plan layout will not be required but the above facilities shall be shown within the development and on the street plans.

3-6 PLAN DETAILS

In addition to the other requirements of these Improvement Standards, the following details shall be shown on plans submitted for approval. This does not in any way exempt the Consulting Engineer preparing plans from the responsibility of preparing neat, accurate and comprehensive plans in keeping with the standards of the profession.

- A. Right of Way - Right of way lines, the boundaries of lots fronting on the street, drainage easements, utility easements, planting easements, section lines and corners, land grant lines and temporary construction easements, both existing and proposed, shall be shown on the plans. All right of way and easement lines shall be properly dimensioned.
- B. Topography - All pertinent topographic features shall be shown, such as street lines, medians, driveways (on both sides of the street when within 40 ft of the median ending), curbs sidewalks, shoulders, location and size of storm and sanitary sewer lines, high water and frequent inundation levels, water lines, gas lines, telephone conduits, other underground utilities, existing structures, houses, trees (9 in. and larger) and other foliage, traffic signals, street lights and pullboxes, underground electrical conduits, walls, masonry structures, and all other features of the area which may affect the design requirements for the area. When a potential utility conflict exists, record drawing elevations of the utilities shall be verified by the Consulting Engineer.
- C. Contours and Elevations - Existing contours or supporting elevations shall be shown on all plans submitted for subdivision, commercial improvements, or planned unit developments.
- D. Profiles - The plans shall show, when appropriate, the existing profile of all roadway centerline, edges of pavement, curb and gutter flow lines, drainage ditches, storm and sanitary sewers. All profiles of proposed improvements shall state centerline elevations at 50 ft intervals and rate of grades, vertical curves

and other vertical alignment data. When curb and gutters are designed for reconstructed City roads, elevations shall be shown at the edge of the outside travelled way, or if the road has a full paved section, shall also be shown 2 ft from the proposed lip of gutter. Any warped surface and vertical curve shall set elevations at 25' intervals.

The plans shall show the existing ground profile for a minimum distance of 200' beyond temporary street endings to facilitate setting proper vertical alignment within the proposed improvement limits. The 200' minimum shall be increased when requested by the Director.

- E. Stationing and Orientation - The stationing on plan and profile shall read from left of right. Stationing shall increase from south to north or from west to east. Plans shall be so arranged that the north arrow points toward the top or upper 180 degrees, insofar as practical.
- F. Bench Marks - The bench marks and datum shall be clearly delineated on the plans both as to location, description and elevations. For all projects, Consulting Engineers shall contact the City for location and elevation of the nearest and most current official City bench mark information.
- G. California State Plane Coordinate System - The Director may require that the proposed improvements be tied into the California State Plane Coordinate System if monumented coordinate points are available within a reasonable distance (200' or less) of said improvement as determined by the Director.
- H. Typical Sections - A typical section for each type of facility within the improvement, setting out the structural features, shall be a part of the plans.
- I. Cross Sections - Cross sections shall be included in the plans, where determined necessary by the Director. When, in limited areas, unusual topographic features or special conditions occur that would affect the work, individual cross sections may be shown on the pertinent plan sheet.
- J. Special Notes - Special notes shall be clearly indicated, and it shall be conspicuously noted on the plans that all construction work and installations shall conform to the City of Rocklin Standard Construction Specifications and that all work is subject to the approval of the Director. Notes shall contain a statement regarding obtaining encroachment permits from other agencies when applicable.
- K. Project Conditions

3-7 REQUIRED NOTES

A list of City required General Notes shown in the [Standard Drawing](#) 1-2 through 1-9 shall be attached to the original drawings for all development plans submitted to the City for approval. In addition to the general notes the Consulting Engineer shall be

responsible for advising the Contractor to give the following notices and have in his possession the following permits and plans:

- A. Contractor shall be in receipt of City approved plans prior to construction.
- B. Contractor shall notify all utility companies involved in the development prior to beginning of work.
- C. Contractor shall notify "Underground Service alert" at 811 (phone 800-227-2600) or through the website at <http://usanorth811.org> 48 hours in advance before any digging.
- D. Contractor shall be responsible for the protection of all existing monuments and/or other survey monuments and shall notify City of Rocklin Department of Public Services of any damaged or removed City, State or Bureau monuments. Contractor shall restore any damaged or destroyed survey markings per California Business and Professions Code 8759-8774.5.
- E. Contractor shall notify Department of Public Services upon application for permit and payment of required fees.
- F. The Contractor shall verify all street names and their correct spelling with the Fire Department and Building Division before ordering street signs.
- G. Contractor shall be responsible for conducting his operation entirely outside of any floodplain boundaries. Floodplain boundaries shall be clearly delineated in the field prior to construction.
- H. Contractor shall be responsible for conducting his operation entirely outside of any no grading area. These areas shall be clearly delineated in the field prior to construction.
- I. Where work is being done in an offsite easement the Contractor shall notify the property owner 48 hours prior to commencing work.

SECTION 4

STREETS

4-1 STREET TYPES

The standard approved street types for City of Rocklin are as follows: (Refer to the [Standard Drawing](#) 3-1 through 3-7).

- A. Alley - A street depressed in the center of a right of way and surface width of 20'. An alley will be accepted by City of Rocklin as a public alley only when it is constructed of 6" thick Portland cement concrete, on 4" AB, or 3" AC over 6" AB or per an approved R value in accordance with [Standard Drawing](#) 3-21 and with the specific approval of the City Engineer.
- B. 42' Street - A cul-de-sac residential street with a right of way width of 42', a back to back of curb width of 34', and 4' sidewalks. See [Standard Drawing](#) 3-1.
- C. 46' Street - A minor residential street with a right of way width of 46' and back to back of curb width of 38' and 4' sidewalks. See [Standard Drawing](#) 3-1.
- D. 50' Street - A residential collector street with a right of way width of 50', a back to back of curb width of 42', and 4' sidewalks. See [Standard Drawing](#) 3-2.
- E. 60' Street - A residential collector with bike lanes with a right of way width of 60', a back to back of curb width of 52', and 4' sidewalks. See [Standard Drawing](#) 3-2.
- F. 60' Street - An Industrial/Commercial street with a right of way width of 60', a back to back of curb width of 48', and 6' sidewalks. See [Standard Drawing](#) 3-3.

60' streets are required in commercial and industrial developments and are normally used in the vicinity of parks, schools and other public facilities.

- G. 62' Street - A collector approach street with a right of way width of 62', a back to back of curb width of 54', and 4' sidewalks. See [Standard Drawing](#) 3-3.

62' streets shall be used as approach streets providing access onto 80', 90' and 120' streets. The 62' street approach shall be provided for a distance of 180' from the cross street right of way line with a 40' taper. See [Standard Drawing](#) 3-11.

- H. 66' Street - A collector approach street with a right of way width of 66', a back to back of curb width of 54', and 6' sidewalks. See [Standard Drawing](#) 3-3.

66' streets shall be used as approach streets providing access onto 80', 90' and 120' streets. The 66' street approach shall be provided for a distance of 180'

from the cross street right of way line with a 40' taper. See [Standard Drawing 3-11](#).

- I. 90' Street - A minor arterial street with a right of way width of 90', a back to back of curb width of 78' and 6' sidewalks. See [Standard Drawing 3-4](#).
- J. 120' Street - A primary arterial street with a right of way width of 120', a back to back of curb width of 104', and 6' sidewalks. See [Standard Drawing 3-5](#).
- K. Partial Street - A street for which the full right of way cannot be dedicated or the complete street cannot be constructed. Partial streets shall be in accordance with Section [4-5](#).

4-2 [STREET CLASS](#)

The standard approved street classes of City of Rocklin are as follows:

Class "A" Streets - Class "A" street improvements shall be in accordance with [Standard Drawing 3-1](#) through 3-5 and shall consist of the following:

- A. "Asphalt" concrete pavement over an aggregate base, and aggregate sub-base as required.
- B. Concrete curb and gutter and sidewalks.
- C. Side slopes not steeper than 1½:1" cuts or 2:1" fills, or a reinforced concrete retaining wall beginning at the right-of-way line.

Semi-Rural Semi Rural streets require special approval by City Council. Improvements shall be in accordance with [Standard Drawing 3-6A](#) and shall consist of the following:

- A. Asphalt concrete pavement over an aggregate base.
- B. Intersection widening at 80', 90' and 120' streets shall be in accordance with Standard Drawing 3-11.

4-3 [STRUCTURAL SECTIONS](#)

The following standards for the design of structural sections for proposed improvements shall govern the preparation of plans for such improvements.

All of the following street sections shall include reinforcing fabric prior to the placement of aggregate base.

- A. It will be required that the pavement be designed on the basis of the resistance R-value as determined in accordance with the State of California, Department of Transportation, California Bearing Ratio, or other approved method.

The thickness of the various structural components will be determined by the tables, charts, formulas and procedures contained in the State Design Manual, or as directed by the Director. Under no circumstances shall the Director approve a structural section design that is less than those specified in this section.

Traffic index shall be determined by the Developer's Engineer for each project, and approved by the Director.

- B. The minimum allowable thickness of roadbed section shall be as follows:
1. 3" asphalt concrete and 8" aggregate base on 42' streets.
 2. 3" asphalt concrete and 8" aggregate base on 46' and 50' streets.
 3. 3" asphalt concrete and 8" aggregate base on 60', 62', to 66' streets.
 4. 4" asphalt concrete, 6" aggregate base and 8" aggregate sub-base on 80', 90' and 120' streets.
 5. The structural section for industrial/commercial streets shall be 4" asphalt concrete and 8" aggregate base unless otherwise specified by the Director.
 6. Class "A" streets, including the shoulders, shall have 3" asphalt concrete, 6" aggregate base structural section.
 7. In transition areas from one street width to another street width, the heavier structural section shall be used in the transition area.
 8. As an alternative to the preceding structural sections, total asphaltic concrete structural sections may be specified to be following minimum thicknesses:
 - a. 6" of asphaltic concrete equals 3" of asphaltic concrete and 6" of aggregate base.
 - b. 6" of asphaltic concrete equals 3" of asphaltic concrete and 6" of aggregate base.
 - c. 9" of asphaltic concrete equals 3" of asphaltic concrete, 6" of aggregate base and 6" of aggregate subbase.

Total asphaltic concrete sections must receive the specific approval of the Director.

4-4 **PROFILE STANDARDS**

The following standards for the design of profiles for proposed improvements shall govern the preparation of plans for such improvements (see Section 3).

- A. The minimum grade on new streets shall be 0.35% except that the minimum curb and gutter grade around intersection corner roundings shall be 0.50%. Curb and gutter elevations on crest and sag vertical curves shall be adjusted to meet the 0.35% minimum grade.
- B. The maximum grade on new streets shall be 12.0% unless otherwise approved by the City Engineer.
- C. Standard cross slope on new streets shall be 2.0% except where superelevation of a curve is required, then Caltrans manual will be followed.
- D. The minimum cross slope on widening shall be 1.5% and the maximum cross slope shall be 3.0%. The cross slope of the widening shall favor the cross slope of the existing pavement whenever possible.
- E. When two streets intersect, neither street shall have a grade greater than 3.0% for a minimum distance of 40' measured from the curb line of the intersecting street, except in unusually rough terrain, as determined by the City Engineer. The centerline of the lesser intersecting street shall meet the crown slope at the projected lip of the gutter. Crown slope may be reduced to 1.0% within the intersection, if necessary.

The minimum vertical curve length allowable at the intersection of two grades shall be 50' or as determined by the City Engineer. Vertical curves on residential and collector street may be omitted where the algebraic difference in grades does not exceed 2.0%. The minimum vertical curve data to be computed and shown on the plans shall consist of the point of intersection elevation, the tangent gradients, the middle ordinate and the length of curve and the sag or highpoint station and elevation.

- F. The design speed and minimum stopping sight distance over any segment of roadway shall be as follows unless specific approval for a lesser design speed is received from the City Engineer:

<u>Street Type</u>	<u>Recommended Design Speed</u>	<u>Minimum Stopping</u>
42' R/W	25 MPH	150'
46' R/W	30 MPH	250'
50' R/W	30 MPH	300'
60' R/W	40 MPH	300'
62' R/W	40 MPH	300'
66' R/W	40 MPH	300'
80' R/W	50 MPH	430'
90' R/W	55 MPH	500'
120' R/W	60 MPH	500'

4-5 PARTIAL STREETS

Partial streets may be permitted by the City Engineer along the boundary of a subdivision or property of the developer where the full right of way cannot be dedicated or where the complete street cannot be constructed.

Partial streets shall be constructed to a complete geometric and structural section for a minimum paving width specified by the following:

- A. One half ultimate right of way width plus 10' past centerline as required.
- B. When paving partial construction of an ultimate street development, the edges of the current pavement are to be protected by use of 2" x 6" approved headers, construction grade, or by placing a minimum of 1' additional width of aggregate base material beyond the edge of pavement to the grade and depth of the adjacent structural section.

4-6 OFFSET INTERSECTION

Streets intersecting any given street from opposite sides shall have their centerlines meet or the offset between intersections shall be a minimum of 120' for residential streets and at least 150' for all other streets.

4-7 CUL-DE-SAC

Cul-de-sac streets shall be terminated with a bulb which shall have a right of way and back of curb radius dimensions conforming to the [Standard Drawing](#) 3-7 and the following:

<u>Approach Street</u>	<u>R/W Radius</u>	<u>Back of Curb Radius</u>
42' street	42'	38'
46' street	46'	42'
50' street	50'	46'
60' street	60'	56'

No cul-de-sac shall exceed 600' in length, unless an emergency vehicle access is provided to the satisfaction of the Fire Chief.

4-8 ELBOW INTERSECTION

Right angle elbow intersections shall be designed in accordance with the [Standard Drawing](#) 3-8.

4-9 CENTERLINE RADII

The curve data (delta angle, length, tangent and radius) for all centerline curves shall be computed and shown on the plans.

The minimum radius curve for 42' streets shall be 200'.

The minimum radius curve to 46' and 50' streets shall be 350' with the exception that 50' streets exceeding 1,000' in length and serving as collectors connecting to 80', 90' or 120' streets shall have a minimum radius curve of 500'.

The minimum radius curve for 60', 62' and 66' streets shall be 500'.

The minimum radius curve for 80', 90' and 120' streets shall be 1,000'.

Special consideration by the Director will be given to unusually difficult alignment problems.

4-10 SIGHT DISTANCE AT INTERSECTIONS

Streets shall not be designed with intersections on the inside of curves or at any locations in general where sight distance will be inadequate for drivers to tell if they can safely enter the traffic flow or cross the street, an Exhibit may be required by the City Engineer. Exceptions may be made by the City Engineer for especially difficult design circumstances. In lieu of visibility easements, additional street right of way may be dedicated. Minimum intersection design sight distances standards shall be as follows:

MINIMUM SIGHT DISTANCE

<u>Type Street Being Entered</u>	<u>Recommended Design Speed (MPH)</u>	<u>Minimum Sight Distance*</u>
42' R/W	25 MPH	200'
46' R/W	30 MPH	200'
50' R/W	35 MPH	200'
60' R/W	40 MPH	250'
62' R/W	40 MPH	300'
66' R/W	40 MPH	350'
80' R/W	50 MPH	400'
90' R/W	55 MPH	500'
120' R/W	60 MPH	500'

- * Distance measured from an entering driver's eye position to the position of the closest approaching vehicle's far front corner.

The entering driver's eye position shall be assumed 3' to the right of the entering street's centerline and 11' clear of the nearest vehicle lane on the street being entered.

The position of the closest approaching vehicle's far front corner shall be assumed 3' from the edge of the nearest approaching vehicle lane for each direction of travel.

The [Standard Drawing](#) 3-12 through 3-14 show details of the areas which must be controlled for adequate intersection sight distance on 80', 90' and 120' streets. Other street types and alignments require individual designs based on the minimum sight distance standards given above.

Visibility easements or additional street right of way shall describe an area to be maintained clear of any and all obstructions to a clear view from the adjacent streets. No sign, hedge, structure, natural growth, fence, or other obstruction of any kind whatsoever to a clear view, higher than 2" and 6" above the nearest pavement surface (or travelled area where no pavement exists) shall be installed or maintained or shall be permitted to be installed or maintained within the easement area.

Additional visibility requirements not subject to the above shall conform to [Standard Drawing](#) 3-14.

4-11 [RIGHT OF WAY RADII](#)

Minimum right of way radii for intersection corner roundings shall be in accordance with the [Standard Drawings](#) and the following:

<u>Street Type</u>	<u>R/W Radius-Minimum</u>
42'	20'
46'	20'
50'	20'

4-12 [RIGHT OF WAY WIDTHS](#)

Right of way widths shall be in accordance with these standards for the type of street under consideration, and the [Standard Drawing](#) 3-1 through 3-7, or as required by the City Engineer.

In no instance, without specific approval of the City Engineer, shall a street have a right of way width which is less than that of the street for which it is a continuation.

Right of way widths at 90' and 120' street intersections shall be in accordance with the [Standard Drawings](#) 3-4 and 3-5 as applicable or as required by the City Engineer.

Right of way widths on a 60' street at sections where the right of way width or the continuation of the street beyond the intersection increases and at intersections that have unusually high traffic volumes shall be widened to a 62' or 66' right of way in accordance with the Standard Drawing 3-3 and as determined by the City Engineer.

4-13 BUS TURNOUTS

Bus stop turnouts shall be required at the intersection of two 80 or 90 ft streets, an 80' or 90' and a 120' street, and two 120' streets in accordance with [Standard Drawing 3-10](#).

Bus turnouts shall be required on 80' or 90' and 120' streets at collector street intersections which have or will need traffic signals as determined by the City Engineer.

Bus stop turnouts may be required at other locations as determined by the City Engineer.

Sidewalks shall be 8 ft wide at bus turnouts as shown on the [Standard Drawing 3-10](#).

4-14 INTERSECTION WIDENING

Pavement widening at intersections shall be in accordance with the [Standard Drawing 3-11](#) and as determined by the City Engineer:

4-15 PARTIAL PAVEMENT WIDENING

Partial pavement widening shall be terminated in accordance with the following:

- A. Partial pavement widening shall be terminated with the end of the pavement perpendicular to the street unless modified below. A 2" x 6" redwood header board shall be required at the pavement ending.
- B. Partial pavement widenings that terminate adjacent to an intersection or driveway shall be tapered 45° to the street if right of way is available.
- C. Partial pavement widenings that terminate a travelled lane shall be tapered 1' per 1' of pavement offset per 5 MPH increment of design speed. The design speed used in determining the taper shall be that given in the table in Section [4-4\(F\)](#).
- D. Pavement tapers for the termination of partial street widening different from the above may be required by the City Engineer.

4-16 PAVEMENT CORNER RADII

The minimum edge of pavement radii for intersection corner roundings shall be in accordance with the [Standard Drawings](#) and the following:

CLASS "A" STREETS

<u>Street Type</u>	<u>E.P. (C&G Lip) Radius</u>
50'	27'
*50'	32'
	32'(4' sidewalks)
	34'(6' sidewalks)

*When two streets of different widths intersect, the radius for the Narrower street shall apply, except that when a 50'. street intersects a wider street the radius for the wider street shall apply.

PARTIAL STREETS

All intersection pavement edges on partial streets shall have a minimum radius of 13't.

4-17 DEVELOPER'S PAVEMENT, SIGNAL, AND STREET LIGHT RESPONSIBILITY

The developer shall be responsible for the following:

- A. Where the existing pavement section does not generally meet the current standard and/or the centerline grade and alignment are not satisfactory to the City Engineer, the Developer shall be responsible for the pavement section to the centerline on all streets within, adjacent, and contiguous to his project.

The Developer shall grind and overlay any areas beyond the centerline where the design centerline grade deviates from the existing. The Developer shall also be responsible for overlaying any low areas where the new pavement meets the existing pavement to maintain a uniform cross slope.

The City will pay for any pavement necessary where the full structural section is replaced beyond the centerline if the City Engineer elects to adjust the grade and/or alignment of the existing street.

- B. When making a connection to an existing street end, the Developer shall be responsible for removing and reconstructing up to a maximum of 20 ft of the existing roadway to make a satisfactory connection as required by the City Engineer.
- C. The Developer shall be responsible for all of the structural section and pavement on all new streets within, adjacent, and contiguous to his project. If the street is to be paved under a future City contract, the City Engineer may require a bond or cash deposit for the roadway and related work and include the work in the City contract.
- D. All temporary approaches to the existing roadway required as a result of the development shall be at the Developer's expense. The temporary approaches shall be paved with the structural section to be determined individually for each situation.
- E. The Developer shall be responsible for relocating existing traffic signals and street lights as necessary for new street and driveway locations.
- F. The Developer shall be responsible for constructing curbed median islands when required by the City Engineer if the street is to be paved under a future City

contractor, the City Engineer may require a bond or cash deposit for the roadway and related work and include the work in the City contract.

- G. The Developer shall be responsible for bus turnouts as shown on the [Standard Drawing](#) 3-10 and 3-11 and in accordance with Section [4-13](#) of these Standards.
- H. The Developer shall be responsible for all drainage facilities (bridges, pipes, culverts, and appurtenances) crossing new streets within, adjacent, and contiguous to the project. Section [4-19](#) states developer responsibility and City participation in drainage facilities on existing improved streets.

4-18 [CITY COST PARTICIPATION](#)

With the submittal of improvement plans for checking, the Engineer shall include a letter request for City cooperation in the proposed work if City participation is proposed for the improvement. This application shall show the items of work and the estimated quantities.

The City will notify the Consulting Engineer by letter as to the acceptance and the extent of cooperation.

The Consulting Engineer is to submit the City proposal to the Developer for his approval prior to the final approval of the improvement plans.

Should the Developer not approve the City proposal, time will be allowed for negotiation between the Developer and the City to arrive at a mutually acceptable price or a separate course of action prior to final approval of the improvement plans.

Any portion of work shown on the Consulting Engineer's plans, for which the City has agreed to cooperate, shall not be segregated by note or legend, but shall be included in the general contract. The City will reimburse the Developer for these cooperative items, after acceptance by the City Engineer and final payment of plan check and inspection fees, if these fees were direct billed.

Final quantities will be determined by field measurement, observed jointly by the City Inspector, the Contractor, and the Developer; or his designated agent.

Unit prices prepared for fee and bond calculation and authorized by the City shall be used as a guideline for cooperative work. The City Engineer may negotiate unit or lump sum prices for items not usually encountered, or for unusual field conditions.

4-19 [REPLACING CULVERTS](#)

The City will cooperate in the replacement of roadways cross culverts for the same length as the existing culvert as follows (see Section [4-18](#)):

- A. The entire cost for inflowing cross culverts to the property under development that must be replaced.

- B. The entire cost for outflowing cross culverts if the existing culvert is of unsatisfactory size and has unsatisfactory grade.
- C. If the existing outflowing cross culvert is to satisfactory grade but unsatisfactory size, the City will pay for the cost of the pipe only.
- D. If the existing outflowing cross culvert is of satisfactory size, the City will not participate in the cost to replace the culvert.
- E. Major trunk and collector drainage facilities being constructed by agreement with the City will be replaced for the entire right of way width in acceptance with the foregoing and in conformance to these Improvement Standards.

4-20 TRENCHING IN EXISTING PAVED ROADWAYS

Crossings other than perpendicular crossings of existing roadways and all trenching in high traffic locations shall provide for select backfill material and increased structural section depth over the standard for that particular roadway.

4-21 TESTING OF MATERIAL

Testing of materials to be utilized in work performed under the Standard Construction Specifications shall be performed in accordance with the methods of the Laboratory of the State of California, Department of Transportation. Signed copies of the test results, as required, shall be submitted to the City Engineer. Test results shall show clearly the name of the individual and firm performing the tests, as well as the name of the project, the date of sampling, and the date of testing.

The tests indicated in the Standard Construction Specifications will be the minimum required. In large developments or those developments presenting special problems, a more comprehensive and extensive testing program may be required. Such conditions will be evaluated and an appropriate testing program prescribed on an individual basis.

4-22 STREET NAMES

All roads and streets within an improvement shall be named by the owner or subdivider subject to the approval of the City Engineer and the Fire Department. No duplication of names already in use or previously proposed will be permitted. Sound-alike names are not acceptable.

Street name signs shall be furnished and erected by the Contractor. Street name signs shall conform to requirements of the Standard Construction Specifications and these Improvement Standards.

Street names and street name sign locations shall appear on plans submitted for approval. Sign details shall be as shown on the [Standard Drawing](#) 3-28.

4-23 STREET SIGN LOCATIONS

Street sign locations shall conform to the following:

- A. Two street name sign installations (with four sign plates on each post) are required at each intersection where on or both of the intersecting streets has a right of way width of 80 ft or greater. At a four-way intersection, the installations shall be located on both far right-hand corners of the intersection relative to the street having the greater right of way width or relative to the more important street if right of way widths are equal.

At a "Tee" intersection, the first installation shall be located on the far right-hand corner of the intersection, relative to the through street, and the second installation shall be located adjacent to the through street at a point in line with the centerline of the terminating street. One sign plate should be omitted from the standard four-plate installation at the "Tee" intersection sign locations where an approach street does not exist.

- B. One street name sign installation (with four sign plates on each post) is required at each intersection where both intersecting streets have a right of way width of less than 80 ft. At a four-way intersection, the installation shall be located on one of the far right-hand corners of the intersection relative to the street having the greater right of way width or relative to the more important street if the right of way widths are equal. At a "Tee" intersection, the installation shall be located on the far right-hand corner relative to the through street.
- C. For highways with frontage roads, the street name sign installations shall be located in the divider strip between the frontage road and the main travelled lanes of the highway. All other requirements shall be as outlined above, except that only one sign will be required (in the divider strip in line with the centerline of the minor street) when there is no opening in the divider strip for access to the main highway.
- D. The [Standard Drawing](#) show placement details for street name signs. On streets having a right of way width of 80' or greater, the street name sign installations are to be located adjacent to the more important street, at the end of the curb return. On streets with right of way widths less than 80', the street name sign installations are to be located at the midpoint of the curb return.
- E. Street name signs shall be placed on street light poles wherever possible, in accordance with the [Standard Drawings](#) 3-29 and 3-30.

4-24 PERMANENT BARRICADES

Where improvements are temporarily terminated on a street proposed to be extended in the future, the improvements shall include a permanent type barricade at the end of the street extending completely across the right of way to serve as a warning to the public. The barricade shall be constructed, erected, painted, and signed in accordance

with the [Standard Drawing](#) 3-25. When necessary, barricades may be lengthened by making the 2" x 12" plank continuous with splicing at the posts.

Gates may be required where streets stub into public park areas or like areas.

Timber barricades with W 31 signs in accordance with the [Standard Drawing](#) 3-25 shall be required where partial street widening terminates at the far end of the widening in the direction of traffic.

Sidewalk barricades shall be constructed at the end of sidewalks where pedestrians cannot safely continue beyond the end of the sidewalk. Sidewalk barricades shall conform to the Standard Drawing 3-24.

4-25 [TREES](#)

All trees removed from within the ultimate right of way shall be replaced with trees from the approved list. Trees shall not be planted any closer than 6' from the back of sidewalks adjacent to City streets. Where 4' minimum planters are required adjacent to the sidewalks, they may be widened to accommodate the planting of trees. Approved trees for planting in City rights of way and public easements are listed as follows (desired trees not listed may be planted with the approval of the Director):

DECIDUOUS TREES

BOTANICAL NAME	COMMON NAME
Acer platanoides	Norway Maple
Aesculus carnea "Briotii"	Red Horse-Chestnut
Crataegus phaenopyrum	Washington Thorn
Gleditsia triacanthos inermis:	Thornless Honey Locust
"Sunburst" Moraine	
"Imperial" Shademaster	
Koelreuteria paniculata	Golden Rain Tree
Lagerstroemia indica	Crape Myrtle
Liriodendron tulipifera	Tulip Tree
Pistacia chinensis	Chinese Pistache
Prunus:	Flowering Plums and Cherries
Cerasifera "Thundercloud"	
"Krauter-Vesuvius",	
"Atripurpurea"	Cherry Plum Variety
Tilia cordata	Littleleaf Linden

BROAD-LEAVED EVERGREEN TREES

BOTANICAL NAME	
Ceratonia siliqua	Magnolia grandiflora
Cinnamomum camphora	Quercus agrifolia
Laurus nobilis	

COMMON NAME

Carob Tree

Camphor Tree

Ulmus parvifolia

Grecian Laurel

Southern Magnolia

California Coast Live Oak

Chinese Elm

CONIFERS**BOTANICAL NAME**

Ginkgo biloba:

"Autumn Gold"

"Fairmont"

COMMON NAME

Maidenhair Tree

Permission to remove any tree in City right of way or easements shall be obtained from the Director in advance.

See Sections [3-6\(B\)](#), and [9-6](#) for additional requirements regarding trees.

Right of Way Approved Plant List

BOTANICAL NAME/COMMON NAME	SIZE
TREES	
Quercus lobate/Valley Oak	15 GAL.
Acer rubrum/Red Sunset	15 GAL.
Koelreuteria Bipinnata/Chinese Flame Tree	15 GAL.
Vitex Agnus-Castus/Chaste Tree	15 GAL.
Prunus Serrulata 'Kwanzan'/Japanese Flowering Cherry	15 GAL.
Pyrus Chanticleer	15 GAL.
Quercus Rubra/Red Oak	15 GAL.
Koelreuteria Paniculata/Golden Rain Tree	15 GAL.
Strawberry	15 GAL.
Cedrus Deodara/Deodar Cedar	15 GAL.
Coast Live/Quercus agrifolia	15 GAL.
Acer Rebrum xfreeman Columnar Maple	15 GAL.
Zelkova Serrata/Saw Leaf Zelkova	15 GAL.
Pisacia Chinensis/Chinese Pistache	15 GAL.
Acer Buergeranun/Trident Maple	15 GAL.

4-26 COMMERCIAL, INDUSTRIAL, AND MULTI FAMILY DRIVEWAYS

Driveways shall be in accordance with the following:

- A. No driveway will be allowed within 5' of a side property line on a commercial development. Exceptions may be approved by the City Engineer for joint driveways or in unusual cases.
- B. All commercial and multiple family developments shall install driveways in accordance with the [Standard Drawing](#) 3-23 or 3-19 as determined by the City Engineer. The standard multiple family and commercial driveway width shall be 45' on 120', 90' and 80' street, and 35' on streets less than 66' in width. Lesser widths for development on 60' and 50' streets may be approved by the City Engineer. Minimum driveway widths shall be 25'.
- C. The standard driveway for industrial developments shall be as shown on the [Standard Drawing](#) 3-19 or 3-23 as determined by the City Engineer.
- D. When driveways are abandoned or relocated, the driveway sections must be removed and replaced with matching curb and gutter, sidewalk and planters.
- E. When street frontage improvements are existing with Type 1A, or Type 2 curb and gutter, driveways shall be installed per [Standard Drawing](#) 3-19.
- F. Driveways entering commercial property on all roads shall have a slope not exceeding 5% for a minimum distance of 20', measured from the edge of existing pavement. Driveways normally used by vehicles towing house or boat trailers shall have special requirements to be determined on an individual basis by the Director.
- G. The nearest edge of driveways shall not be closer than 40' to the end of traffic medians. Medians shall be reconstructed and/or lengthened to conform to this section if necessary.
- H. Visibility requirements shall be in accordance with the [Standard Drawing](#) 3-14.

4-27 PEDESTRIAN LANES

Pedestrian lanes within a development shall be constructed with a minimum of 6" of Portland cement concrete, Class 'B', if traffic lane, use Class "A" for the full width of the easement.

The maximum grade for pedestrian lanes shall meet the most current ADA guideline design.

Pedestrian lanes, where situated between lots, shall be fenced with chain link fencing from the street right of way to the back lot line. These fences shall be 6' high from the

building setback line to the back lot line and 36" high from the building setback line to the street right of way line.

Cross fencing to control access shall be placed at the street ends of all pedestrian lanes in accordance with the [Standard Drawing](#) 3-27.

All pedestrian lanes shall have lighting installed in accordance with Section [8-6](#)(C).

4-28 [SIDEWALK RAMPS](#)

Ramps for individuals with disabilities shall be constructed at all street intersections in accordance with the most current State ADA Standards, and at other locations where required by the City Engineer. Any retrofits to existing ramps must comply with the requirements of the California Building Code.

4-29 [CURB AND GUTTER](#)

Curb and gutter shall be installed adjacent to all developments in accordance with the [Standard Drawing](#) 3-15 and 3-15A, and the following:

- A. Type 1A curb and gutter: 42', 46' and 50' streets in residential developments and all developments not included in B or C, or as required by the City Engineer.
- B. Type 2 curb and gutter or valley gutter: Industrial subdivisions. See detail 3-15A
- C. Type 2 curb and gutter: Frontage roads; parks; unfenced schools; open space areas; public facilities; 60', 66', 80', 90' and 120' streets with commercial and multi-family (not duplex) developments.

4-30 [BARRIER CURB](#)

Barrier curbs shall be in accordance with these standards and the [Standard Drawing](#) 3-15. See [Standard Drawing](#) 3-17 for planter and barrier curb details.

4-31 [SIDEWALKS](#)

Sidewalks shall be in accordance with these standards and Standard Drawing 3-15.

Where utility poles and other obstructions are situated within streetside sidewalks, a minimum of 4' of clear uninterrupted sidewalk area shall be provided. Where it is necessary to widen the sidewalk beyond its standard width to attain the 4' clearance, the widened area shall extend a minimum of 5' beyond each side of the obstruction and a 10' taper on each side of the widening shall be required.

All school bus turnouts shall have 8' sidewalks along all frontages except fenced play areas where no access is provided, as determined by the City Engineer.

Where sidewalks end in fill areas, the fill shall be extended beyond the end of the sidewalk for a minimum distance of 5'. As an alternate, a cut-off wall may be constructed at the end of the sidewalk.

All sidewalks adjacent to commercial developments shall be 6' wide.

Sidewalks shall be 8' wide at bus turnouts as shown on the [Standard Drawing 3-10](#).
New development shall be responsible to repair existing damaged sidewalk.

4-32 [FENCES](#)

The normal location for fences or walls along public streets is at the right of way line, on the private property side or at the edge of the visibility easement required by Section [4-10](#).

All fences and walls are subject to the visibility requirements of these standards. See [Standard Drawing 3-14](#).

On backup lots adjacent to 80', 90' and 120' streets, fences or walls shall be placed at the property line or outside of and at the edge of the visibility control area shown on [Standard Drawing 3-12](#) and [3-13](#).

Fences and walls may require modification to accommodate street light poles and/or foundations.

4-33 [PRIVATELY OWNED BRIDGES](#)

Bridges intended for the sole use of the occupants of a multifamily type development or any bridge on a private road shall be designed to withstand an H-20 load, unless specifically approved by the City Engineer for a lesser loading. Other design features of the bridge, including but not limited to widths, railings, clearances and materials shall be in conformance with City and State Standards. A soils report prepared by a qualified soils engineer will be required. Design calculations signed by the consulting Engineer and including the registration number shall be required.

4-34 [RESIDENTIAL STREET NAME SIGN](#)

See Standard Drawing 3-28

- A. The sign shall consist of two (2) single faced blades per street name.
- B. The sign shall be on an 8" high blade made of .080 gage aluminum with 1/2" radius corners.
- C. Finish shall be high intensity prismatic (HIP) background with electronic cuttable green film sheeting.
- D. All letters and numbers over 2" in height shall have radius corners inside and outside.
- E. The "City of Rocklin" shall be in 1" letters centered across the top of the blade.

- F. The "street name" shall be in 4" upper case letters and 3" lower case. (latest edition MUTCD Standard Sec. 2D.43)
- G. The suffix of the street name (Way, Ave., St., Ct., etc.) shall be in 2" letters at the top of the end of the name.
- H. The length of the blades which will be together on one post shall be the same. EXAMPLE: If one street name sign were to require a blade 12" long and the other street name at the intersection were to only require and 8" long blade, both street names would be placed on 12" blades.
- I. Traffic Control Devices. All traffic control devices shall comply with the latest edition MUTCD, unless approved by the Director of Public Services.

4-35 MAJOR STREET INTERSECTIONS STREET NAME SIGNS

Major street intersection street name signs shall be installed at four locations of the intersections. The signs shall be attached where the mast arm meets the pole, using the banding method.

Sign panels shall be aluminum, 18" high, and have green reflectorized sheeting on both sides. Letters shall be series C, 8" upper case and 6 in. lower case and white reflectorized (high intensity) street names shall be on one side of each panel. (New MUTCD Sec. 2D.43)

Streets with different names on the same intersection, the plate shall show the name on both streets on one panel with directional arrow on the plate.

4-36 OVERHEAD STREET NAME SIGNS

12" upper case 9" lower case. (See CA MUTCD Sec. 2D. 43 paragraph 7.)

4-37 TRAFFIC STRIPES AND PAVING MARKINGS

Traffic stripes and pavement markings shall be as shown on the Plans and shall conform to the most recent addition of the City of Rocklin Construction Specifications, Caltrans Specifications, and California MUTCD).

The traffic stripes and pavement markings shall conform to the standards, dimensions and details as specified in the latest edition of the California Manual on Uniform Traffic Control Devices for Streets and Highways (FHWA's MUTCD as amended for use in California).

4-38 PAINTED TRAFFIC STRIPES AND PAVEMENT MARKINGS

Self-sticking traffic marking tape, vinyl or otherwise, developed for such use shall be used for temporary striping as required, unless otherwise shown or specified in the contract.

4-39 PREFORMED TRAFFIC STRIPES AND PAVEMENT MARKINGS

The completed traffic stripes and markings shall have clean, well-defined edges, without deformations and be free of tears or other disfigurements. Improperly placed, defective or disfigured traffic stripes and markings shall, at the Contractor's expense, be immediately removed from the pavement surface by methods approved by the Agency. Completed traffic stripes shall be uniform, straight on tangent alignment and on a true arc on curved alignment.

SECTION 5

DRAINAGE

5-1 GENERAL

Drainage improvements are to include: culverts, drop inlets, lined channels, turf reinforcement matting, manholes, stormwater quality control measures, outlet and inlet structures and storm drain pipe. These improvements shall be installed in accordance with the approved improvement plans, these Construction Standards, the Stormwater Quality Design Manual for the Sacramento and South Placer Regions, the latest edition of the State of California Department of Transportation Standard Specifications and if applicable, the City of Rocklin Post Construction/Low Impact Development Manual. These Standards shall apply to the public right-of-way and easements and private on-site drainage improvements. Several items within this section shall apply to on-site improvements and in conformance to stormwater quality requirements.

The City of Rocklin has also adopted Stormwater quality design standards to reduce water pollution generated by urban runoff. These design standards are detailed in the City of Rocklin Post Construction/Low Impact Development (LID) Manual. This manual is available on-line at the City of Rocklin website: <http://www.rocklin.ca.us/LID>.

The City of Rocklin has also adopted a Post Construction/Low Impact Development (LID) Manual as required by the Regional Water Quality Control Board. This manual is available online at www.rocklin.ca.us/LID.

5-1 (a) DRAINAGE CLASSIFICATION

Drainage systems shall be classified as follows:

- A. Lateral - Drainage conduits receiving drainage from areas of less than 30 acres shall be called a lateral system.
- B. Trunk - Drainage conduits receiving drainage from areas of 30 acres or more shall be called a trunk system.
- C. Onsite Drainage - Drainage facilities required to carry storm runoff within the development, excluding trunk drainage conduits, facilities draining public streets, and facilities draining concentrated flow from other properties.

5-2 DRAINAGE CAPACITY DESIGN

Special provisions must be made within the drainage system to insure that the inlet invert elevations and the capacity of the drainage system will accommodate the ultimate development of the watershed. This shall include the entire upstream watershed, regardless of the existing conditions and shall conform to the Placer County Stormwater Management Manual (PCSWMM).

5-3 DRAINAGE ALIGNMENT DESIGN

The diversion of natural drainage will be allowed only within the limits of the proposed improvement. All natural drainage must enter and leave the improved area at its original horizontal and vertical alignment unless an agreement, approved by the Director, has been executed with the adjoining property owners. See (PCSWMM).

5-4 DRAINAGE PROFILES

A plan and profile shall be shown for all drainage systems which carry natural drainage that originates upstream of the limits of the development. Onsite drainage may be shown in plan view only, unless requested by the Director. See Section [5-12](#) for extending profiles offsite.

5-5 PIPE RADII CRITERIA

All pipe placed on curves shall meet manufacturer's recommendations for curved alignment. All curves, radii, length of pipe joints, and types of pipe shall be shown on the plans.

5-6 PIPELINE ALIGNMENT REQUIREMENTS

Drainage pipelines shall be located in the street whenever possible. The location of storm drainage pipelines in new streets shall be 6' north or west of and parallel with centerline of the street. All new pipes and channels shall be placed a minimum of 100' from existing and proposed water wells. Meandering and unnecessary angular changes of pipelines shall be avoided. Angular changes when necessary shall not exceed 7.5%

All pipes shall be constructed with a minimum cover of 2' over the top of pipe unless other utilities or grade conditions prohibit. In no case shall minimum pipe cover be less than specified on the [Standard Drawings](#) 5-1 and 5-2.

5-6 (a) CONSTRUCTION STAKING

The Developer for all drainage improvements shall provide Construction staking. Such staking shall provide the station and offset, as well as the cut to the nearest hundredth of a foot (0.01 feet). Stakes shall be provided at a minimum of every 50' in tangent sections and every 25' in curved sections. Cut sheets shall be on-site and shall be furnished to the City's Construction Inspector upon request.

5-7 PIPELINE ACCEPTANCE CRITERIA

A mandrel test shall be conducted on all non-rigid storm drain pipes less than 24" in diameter, following completion of subgrade processing and compaction for curb, gutter and sidewalk and prior to placement of asphalt concrete pavement. Placement of curb, gutter and sidewalk and asphalt concrete pavement (and related aggregate base) shall not occur until the Construction Inspector has approved the mandrel test, and who shall be present through the duration of the mandrel testing.

The allowable deflection for all non-rigid pipes shall be 7.5% maximum. The deflection shall be tested by pulling a mandrel which is 92.5% of the inside pipe diameter through all installed pipe. The mandrel shall be the "go/no-go" type and shall be pulled without

mechanical assistance. Prior to the mandrel test, the pipe shall be thoroughly flushed and cleaned. At each location in which the mandrel cannot pass, the cause shall be ascertained. If it is determined that the deflection exceeds 7.5%, that a gasket has been mis-installed or that the pipe has been damaged due to trenching for another utility, the respective section of pipe shall be excavated, replaced using water tight repair couplings, rebbed and backfilled. A passing mandrel retest is required after backfill and subgrade compaction, line and grade have been reestablished.

Any sections of non-rigid pipe not passing the mandrel test shall be televised to ascertain the problem.

Additionally, all diameters of non-rigid storm drain pipe shall be televised to ascertain the integrity of the installed pipe. Any deficiencies noted during the televised inspection shall be reviewed and repaired, as specified for mandrel-tested pipe. A passing televised retest is required after backfill, compaction, and subgrade line and grade have been reestablished.

Pipeline and associated stormwater structures (sand/oil separators, LID units, filters, etc.) shall be flushed and vactored at completion of project and before final acceptance.

Systems shall be flushed and vactored prior to final televised inspection. Televised inspection will not be performed until all manholes and drain inlets are installed and grouted.

5-8 DRAINAGE EASEMENTS

Drainage easement requirements are as follows:

- A. All drainage facilities shall be located in one of the following:
 - 1. Public street or alley
 - 2. Public utility easement, specifically dedicated to include drainage facilities
 - 3. Private or dedicated drainage easement

Drainage easements shall also be required for any drainage water discharging onto offsite private property where that drainage water does not discharge into a continuous pipeline or watercourse. Dedication of easements shall be completed and submitted to the Director for approval.

- B. Closed Conduits - Easements for closed conduits shall meet the following requirements:
 - 1. Minimum width of 10' with the centerline of the pipe at quarter point; pipe may reverse sides at angle points.

2. Provide access and working space rights.
 3. For pipes exceeding 24" in diameter or trenches exceeding 5' in depth, the easement shall have additional width to provide ample working space as required by the Director.
- C. Open Channels - Easements for open channels shall have sufficient width to contain the open channel with side slopes, fencing where required, and one 15' service road when required by the Director. Suitable ramps must be provided for access to the bottom when bottom is used for maintenance.

5-9 HYDRAULIC DESIGN CRITERIA

- A. Pipe Criteria - Pipe criteria shall be as follows:
1. Minimum pipe diameter allowable on any storm drain shall be 12" except for onsite drainage where the minimum size shall be 8" or as approved by the Director.
 2. Driveway culverts shall be approved by the City for size, grade, alignment and type and shall be shown on improvement plans. See [Standard Drawing 3-20](#). Contractor shall contact City for encroachment permits. Driveway culverts for residential property shall not exceed length necessary for 24' maximum driveway width, and for commercial and industrial shall not exceed length necessary for 45' maximum driveway width.
 3. Minimum velocity in closed conduits shall be 2.0 fps when flowing full.
 4. The profile for closed conduits shall include upstream and downstream profile for a distance of 500' or until an average profile is established.
- B. Cross Culvert Criteria - The design of cross culverts shall be as follows:
1. Cross culvert size shall be determined on the basis of runoff as specified in Placer County Stormwater Management Manual.
 2. Cross culvert profile will be determined by an examination of the overall profile of the channel for a minimum distance of 500' each side of the installation or until an average profile is established.
- C. Open Channels - Open channels shall consist of concrete lined channels, asphalt concrete lined bottom channels, grouted cobble lined bottom channels or natural earth channels.

Criteria for open channels shall be as follows:

1. Minimum and maximum velocities for open channels shall conform to the Placer County Stormwater Management Manual.
 2. Freeboard requirements shall conform to the Placer County Stormwater Management Manual.
- D. Design Computation - The design computation for drainage shall include the following information which shall be submitted before the plans will be accepted for checking.
1. Watershed map.
 2. Drainage area in acres.
 3. The flow rate cubic feet per second (cfs) in each pipe or channel reach.
 4. Invert elevations of each pipe or channel reach.
 5. Top of structure elevation or top of channel lining elevation.
 6. Hydraulic grade line elevation.
 7. Hydraulic gradient.
 8. Pipe, size, class, length and gradient. Items 6 and 7 are not required when design is based on hydraulic grade line inside conduit.
 9. Channel dimensions and water surface profile computations.
 10. Show all proposed 100 year overland release points.
- E. Hydraulic Grade Line - Hydraulic grade line shall be a minimum of 0.50' below the elevation of inlet grates and manhole covers of all structures of the upstream system.

Hydraulic grade line shall be shown on the pipe systems when the hydraulic grade line is above the top of the pipe.

5-10 DRAINAGE STRUCTURES

Drainage structure criteria shall be as follows:

- A. Closed Conduits - The requirements for closed conduits are as follows:
1. Closed conduits shall be either cast-in-place concrete pipe, precast reinforced concrete pipe, vitrified clay pipe, or HDPE or PVC as defined in the

Standard Construction Specifications with exception of HDPE which shall conform to State Specifications 64-1.

2. The specific type of pipe or alternate pipes to be used in the development shall be shown on the plans.
3. Cover requirements are shown on the [Standard Drawings](#) 5-1 and 5-2. At locations where the minimum cover requirements cannot feasibly be obtained, the conduit will be either encased in concrete or provided with a concrete cover or other method of pipe protection as specified by the City Engineer.

B. Manholes - Requirements for manholes are as follows:

1. Standard precast concrete or saddle type manholes shall be located at junction points, angle points greater than 15°, changes in gradient, and changes in conduit size. When cases arise where special manholes or junction boxes are required, the design must be approved by the Director.
2. Spacing of manholes, or junction boxes of such size as to be enterable for maintenance, shall not exceed 400' for drains 24" and smaller in diameter and 600' for pipes greater than 24" in diameter, except under special approved conditions. The spacing of manholes shall be nearly equal whenever possible.
3. All manholes and junction boxes other than inlets shall have standard manhole covers as shown in the Standard Drawing. Manhole covers greater than 24" shall have 2 piece lids. Manholes will not be allowed in the gutter flow line.
4. A reinforced concrete flat top as shown on the [Standard Drawing](#) 4-8 shall be required when the depth does not permit use of a taper unit.
5. Slotted manhole covers may be used to pick up minor drainage in non-traffic areas, including onsite drainage on residential lots.
6. Water quality treatment structures, or Low Impact Development (LID) measures, shall be provided onsite prior to connection with public drainage system or prior to the final point of discharge to the City Engineer's satisfaction.

C. Manholes - Installation

1. Bases Precast: Precast bases shall be placed on a foundation of 1/2" or 3/4" minus crushed rock, a minimum of 4" thick, compacted to ninety percent (90%) relative compaction. Elevation differentials of inlets and outlets shall

conform to the approved improvement plans. Openings in the base shall align true with all inlet and outlet pipes. Stub-out or couplings provided in precast bases shall be of the same material as the pipe to which they connect, unless otherwise approved by the City's Construction Inspector.

2. Bases Cast-in-Place: The cast-in-place base portion shall not be placed higher than 6" above the outside tops of the main incoming and outgoing pipes. Precast manhole penetrations will be cored and booted for appropriate pipe size.

The wall thicknesses for the top of the cast-in-place base sections shall conform to the following table:

Manhole Diameter	Minimum Wall Thickness
48"	5"
60"	6"
72"	7"
84"	8"
96"	9"

Inside diameters of cast-in-place base portions shall equal the inside diameter of the manhole specified. Standard precast manhole riser sections and/or cones shall be placed above cast-in-place section to bring the manhole rim to finish grade. Upon pouring the concrete base, the top surface of the cast-in-place base barrel shall be stamped with a rigid impression ring in order to match it up with the above, precast barrel section. As an alternate, a maximum 1' barrel section may be stacked when it is determined that the concrete for the base is adequately stiff.

A 24-hour minimum curing time is required before manhole stacking is allowed.

All inlets and outlets with a 30" inside diameter or smaller, connecting to existing manholes, shall be core bored.

Concrete in the cast-in-place portion shall be placed against undisturbed earth or upon a base of crushed rock or sand. All loose material shall be removed from the excavation prior to installation.

3. Cones: Cone tops shall be placed within seven to eighteen inches (7"-18") of final street grade. Where depth is insufficient for cones, flat slab tops shall be used. Lifting rings in precast cones shall be plugged with dry packed mortar.

4. Joints: Joints in precast manhole sections shall be made with mortar and plastic sealing compound.

- a. Mortar Application – All joint surfaces and the face of the manhole base should be thoroughly cleaned and wetted before applying mortar. Both the inside and outside of mortared joints shall be plastered with mortar, and the inside surfaces brushed to a smooth finish with a wet brush. Special precautions shall be taken to ensure that the entire joint space is filled with mortar and is water tight.
- b. Plastic Sealing Compound Application – All joint surfaces and the face of the manhole base shall be thoroughly cleaned before applying plastic sealing compound. The sealing compound shall be protected from dirt during application. Ends of the compound shall be joined end-to-end and not joined by overlapping. Sufficient compound shall be used to cause a visual “squeeze-out” of the compound material when adjacent sections are seated.

Squeeze-out material on the inside of the manhole shall be neatly trimmed flush with the inside surface.

5. Connections: Pipe connections to drainage manholes shall be made so that the pipe is flush with the inside face of the manhole. These connections shall be finished so that entrances are smooth. Unless the manhole is cast around the pipe, connections shall be made with dry packed cement mortar. Pipe connections shall not be made into the cone section of the manhole unless shown on the approved plans.
6. Grade Rings: Grade adjustments shall be made using precast grade rings. Precast rings shall be a minimum of 2” in height. The total height of the grade rings, frame and cover casting shall not exceed 18”. If connections are booted they need to be grouted or mortared smooth.
7. Frames and Covers: The tops of frames and covers shall be set 1/8” below finish grade pavement in the street and 6” above finish grade in landscape areas and 12” in unimproved, isolated areas unless otherwise shown on the approved plans. Per the Construction Standard Details, a 12” x 12” wide concrete collar shall be placed around the casting, covered by 2” of asphalt concrete paving in a street area. The concrete collar shall be in conformance to “Minor Concrete” section. All joints between the frame, grade rings, dome, barrels and base shall be sealed with non-shrink mortar or an approved plastic sealing material. Inside the manhole, all joints where the sealing material is not flush with the inside wall shall be grouted with non-shrink mortar and finished/wetbrushed. Frames and Covers shall all be of American made steel.

8. Adjusting Existing Manhole Frames: The frame shall be supported above the grade ring or dome by spacers or by suspending with timber and wires. After the concrete collar is poured, any space between the frame and grade ring and dome shall be filled with non-shrink mortar and the inside of the riser finished/wet-brushed.
9. Compaction: Compaction around storm drain manholes shall conform to [Standard Drawing](#) 5-1 and 5-3.

D. Drop Inlets - Requirements for drop inlets are as follows:

1. Inlets shall be placed so that the length of flow in the gutter does not exceed 500'. The depth of flow in the gutter at the inlet shall not exceed 0.35', as determined by the charts on the [Standard Drawing](#) 4-6 and 4-7. The runoff flow used to check the depth shall include any flow that may bypass upstream grates. Special grates to prevent bypass may be required by the City Engineer.
2. Inlets at sag points where bypass flow from upstream grates is possible shall be Type B. The outfall pipe from the inlet shall be sized to accommodate the design runoff taking into consideration bypass flow from upstream inlets.
3. Type B inlets shall be used on all arterial streets including commercial and industrial areas.
4. Type F inlets shall be used in unimproved medians, and may be used in roadside ditches away from driveway locations.
5. Drop inlets in streets shall be placed at lot lines in residential subdivisions, except at intersections where they shall be placed at the beginning or end of the curb return.
6. The maximum area draining into one inlet shall be 2 acres for onsite systems.

All inlets for onsite use that are not shown in the Improvement Standards shall be clearly dimensioned on the plans. All grates shall be designed to provide adequate safety for automobile traffic, bicycles and pedestrians.

7. Type A or B inlets may be used as junction boxes. When used as junction boxes where pipe is changing directions, the inside dimension requirements for junction boxes shall be met. Inlets shall not be used as junction boxes in sag points.
8. Drop inlets draining public streets may be connected directly to a collector or trunk line 36" in diameter or larger by means of a lateral not exceeding

15" in diameter and 20' in length and having a slope not exceeding 30%. At sag points the drop inlets shall be connected to a manhole.

9. All drop inlets over 48" in overall height will be reinforced with #4 rebar at 8" O.C.

E. Junction Boxes - The requirements for junction boxes are as follows:

1. Junction boxes shall be constructed of reinforced concrete or fabricated from reinforced concrete pipe sections where size limitations permit, except when standard inlets are used as junction boxes as specified in [Section 5-10\(C\)8](#).
2. Minimum wall thickness for reinforced concrete junction boxes shall be 6".
3. The inside dimension of junction boxes shall be such as to provide a minimum of 3" clearance on the outside diameter of the largest pipe in each face. All junction boxes shall be rectangular in shape unless otherwise approved by the City Engineer. Junction boxes deeper than 4' shall have a minimum dimension of 48".

F. Headwalls, Wingwalls, Endwalls, Trash Racks and Railings - The requirements for these facilities are as follows:

1. All headwalls, wingwalls, and endwalls shall be considered individually and shall be, in general, designed in accordance with the Standards and Specifications of the California Department of Transportation.
2. Trash racks will be provided to prevent clogging of culverts and storm drains and eliminate hazards. The trash racks shall be designed in conformance to the design shown in the [Standard Drawings](#) 4-15 and 4-16. Temporary trash racks will be allowed where pipe will be extended in the near future, at the discretion of the City of Engineer.
3. On cross culvert drains, pre-formed end sections conforming to the California Transportation Standard Specification 70-5 and California Transportation Standard Plans D94A and D94B.
4. Metal beam guard rail, chain link or wrought iron fencing may be required by the Director at culverts, headwalls and box culverts and on steep side slopes. When so required, the railing shall be installed in accordance with the Standard Construction Specifications.

G. Cross Culverts - The requirements for cross culverts shall be as follows:

1. Cross culverts may be of reinforced concrete pipe or SDR-35 pipe meeting the requirements of the Standard Construction Specifications and the following criteria.
2. When specified by the City Engineer, reinforced concrete box culverts or structural plate arch culverts shall be installed.
3. Crossings of major creeks may require special aesthetic considerations as determined by the City Engineer.
4. Crossings of major creeks shall be designed for 100-year storm event and shall not raise the upstream water by more than 0.5' the current FEMA regulations.

H. Water quality elements per NPDES requirements.

5-11 TEMPORARY DRAINAGE DIVERSIONS

The requirements for temporary drainage diversions are as follows:

- A. Temporary drainage diversions, such as dams and pipe plugs, shall be located and constructed in such a fashion as to permit their removal during adverse weather.
- B. Locations and removal procedures for temporary drainage installations shall be approved by Public Services, and these installations shall be removed when necessary to prevent damage to adjoining property.

5-12 CHANNELS AND OUTFALL DESIGN

The design of channels and outfalls shall be as follows:

- A. Open Channels - Requirements for open channels are as follows:
 1. Drainage may be conducted through an improvement in open channels under the following criteria and if approved by the City Engineer.
 - a. The quantity of flow is such that it will exceed the capacity of a 72" pipe.
 - b. The outfall point is such an elevation that minimum cover cannot be obtained over the pipe.
 2. All channels to be reconstructed shall be built to a typical cross section as approved by the City Engineer.

Fully lined and bottom lined channels shall have a minimum bottom width of 6' and shall have an access ramp for maintenance equipment.

3. For all channels, either realigned or natural, the following items shall be shown on improved plans in addition to information heretofore required.
 - a. Typical sections and cross sections.
 - b. Profile of the existing channel and top of bank profile for a minimum of 50' each side of the development in order to establish an average profile grade through the development.
 4. All open channels to be maintained by the City shall require the recordation of a drainage easement.
- B. Interceptor Ditches - Interceptor ditches or approved alternates shall be placed at the top of the cut or bank where deemed necessary by the City Engineer to prevent erosion of the channel bank.
- C. Upstream and Downstream Profiles - The requirements for these profiles are as follows:
1. All drainage outfalls shall be shown both in plan and profile on the improvement plans until a definite "daylight" condition is established.
- All drainage ditches upstream of the improvement shall be shown on the plans and profile until an average profile grade through the improvement is established.
- The profiles shall include ditch flowline and top of bank elevations.
2. When improvements have more than one unit, the drainage outfall shall be shown as extending to the property boundary, and beyond if required, although it may not be constructed with the current unit development. All temporary outfalls shall be shown both in plan and profile on the improvement plans.
- D. Detention and Retention Basins - If detention or retention basins are required for peak flow reduction, the design of the basin must conform to the latest addition of the Placer County Flood Control District's Stormwater Management Manual. The basin layout and design shall minimize its maintenance time and cost. The basin should be designed to allow for the two (2) year storm event flows to bypass the basin. This will be key factor in the approval of the basin's O&M Plan by the Engineering Division.
- E. Access for Maintenance - These facilities may include, but are not limited to bridges, culverts, headwalls, lined and unlined channels/ditches, sand/oil separators, manholes, retention basins and drain inlets. The access way shall be a minimum of 12' wide and include 6" of 3/4" aggregate basis (95% relative

compaction) over 6" of processed, native soil (95% RC). Upon the City Engineer's request, 4" of asphalt concrete shall be added to the section and/or a cul-de-sac with a minimum diameter of 75'. Changes/additions to the plans resulting from the City Engineer's review shall be integrated and included in a subsequent plan check submittal for the Engineering Division's consideration.

5-13 PIPE INSTALLATION

All drainage improvements shall conform to the following requirements:

- A. Excavation: Pipeline excavation shall be open-cut trenches, unless otherwise specified on the approved improvement plans. All excavations shall adhere to all applicable Federal and State safety requirements. All work shall be conducted in such a manner as to prevent damage to new and existing facilities or adjoining property.

Wherever the trench bottom is unstable, the area shall be excavated and an adequate amount of 1/2" or 3/4" crushed rock shall be compacted in place to provide a stable base for the pipe. Pipe bedding material, per approved plans, will be placed on top of stabilized trench bottom.

- B. Trench Width: A minimum clearance of 6" shall be maintained between the pipe and the trench wall for reinforced concrete pipe and ductile iron pipe. See Detail TB-2 for trench widths for non-rigid pipe.
- C. Pipe Bedding - Pipes shall be placed on a firm bed of imported granular material conforming to [Standard Drawings](#) 5-1 and 5-3. Unless unstable pipe bedding subgrade needs to be removed, pipe bedding shall only be placed on native, undisturbed soil. Prior to placing pipe bedding, the trench bottom shall be free of any loose material.
- D. Laying Pipe: The pipe shall be laid up-stream with the bell end of the pipe placed up-stream. The interior of the pipe shall be kept clean as the work progresses. There shall not be a change in pipe material between storm drain structures.

1. Handling, Laying and Backfill of polyvinyl Chloride (PVC), High Density Polyethylene Pipe (HDPE) and Steel Reinforced High Density Polyethylene Pipe (SRHDPE) – the pipe shall be handled in accordance with the manufacturer's published recommendations. Laying and backfill shall conform to the most current Caltrans Standard Specifications, the manufacturer's recommendations, and ASTM D-2321 Standard Practice, with the following modifications:

- a. Due to the lightweight characteristic of the pipe, extreme care shall be taken to avoid displacing the pipe during the backfilling operation. Following placement of the pipe on the required bedding and to the required grade, the pipe shall be stabilized in place with ballast. At a

minimum, this shall be accomplished by loading the pipe down slowly and carefully with small piles of embedment material to a minimum of 1' above the pipe on each joint and midway on each length. The pipe shall be kept centered in the trench during this operation. Every precaution shall be taken to avoid flooding the trench prior to placing backfill. The City's Construction Inspector may require dewatering the trench to confirm pipe grade and to retest the integrity of the pipe following trench flooding.

- b. The trench shall be backfilled with embedment material 6" – 12" above the pipe, prior to continuing with the trench backfill.
 - c. Pipe material shall not change between manhole structures or between the last structure and the discharge/inlet opening.
 - d. The pipe run between the last structure and the discharge/inlet opening shall be reinforced concrete. Pipe stub runs from storm drain mains into commercial sites shall also be reinforced concrete.
 - e. No pipe, conduit or any other appurtenance shall be located within any existing or newly constructed storm drainpipe or culvert. Each run of storm drainpipe and culvert shall also be 100% and unobstructed the total length.
- E. Non Rigid (PVC/HDPE/SRHDPE) Pipe Testing: A mandrel test shall be conducted following completion of subgrade processing and compaction for curb gutter and sidewalk and asphalt concrete pavement. Placement of curb, gutter and sidewalk and asphalt concrete pavement (and related aggregate base) shall not occur until the Public Works Inspector has approved the mandrel test. The City's Construction Inspector shall be present through the duration of the mandrel testing.

The allowable deflection (reduction in vertical inside diameter) for all non-rigid pipes shall be seven and a half percent (7.5%) maximum. The deflection shall be tested by pulling a mandrel which is ninety-two and a half percent (92.5%) of the inside pipe diameter through all installed pipe. The mandrel shall be on the "go/no-go" type and shall be pulled per the manufacturer's recommendations without mechanical assistance. Prior to the mandrel test, the pipe shall be thoroughly flushed and cleaned (see Subsection "J" below). Obstacles in the pipe shall be removed. At each location in which the mandrel cannot pass, the cause shall be ascertained. If it is found the deflection exceeds seven and a half percent (7.5%) or that a gasket has been mis-installed or that the pipe has been damaged due to construction activities, then the respective section of pipe shall be repaired and retested. Pipe section repair operations may require rebidding pipe, replacing pipe, or both as needed to properly repair pipe section.

Watertight repair couplings shall be used in repair. A passing mandrel retest is required.

At the Contractor's discretion, any sections of non-rigid pipe not passing the mandrel test may be televised to evaluate the problem.

- F. Pipe Laying Tolerances: The pipes shall be laid true to line and grade with allowed tolerances of 0.03' above or below the design grade and 0.10' left or right of the design alignment.
- G. Trench Backfill: Initial backfill material shall be placed immediately after pipe joints have been completed, inspected and passed by the City's Construction Inspector.

The material shall be carefully placed so as not to disturb or damage the pipe and shall be brought up evenly on both sides. Trench backfill will be placed in accordance with these Construction Standards.

- H. Cast-in-Place Concrete Pipe: Cast-in-place concrete pipe shall conform to provisions in Section 63 of the Caltrans Standard Specifications. Where excavations for other utilities undermine installed cast-in-place pipe, that excavation shall be backfilled to the spring line of the cast-in-place pipe with two-sack slurry per these Standards.
- I. Pavement Cutting and Repaving: When the trench line is in an existing pavement area, the pavement shall be sawed or scored and broken ahead of trenching operations.

The proper tools and equipment shall be used in marking and removal of the pavement such that it is cut accurately to a neat and parallel line on either side of the trench width required, in conformance with the Trench Cut Ordinance. All cuts in Portland cement concrete pavements shall be saw cut with equipment approved by the City's Construction Inspector. See "Trench Backfill" section of these Standards.

- J. Cleaning of Storm Drain System: The storm drain system shall be cleaned to the satisfaction of the City's Construction Inspector upon completion. If flushing is utilized, then the discharge shall not be routed into the existing City system. The downstream manhole shall be plugged and the discharge fluid shall be disposed of in a manner satisfactory to the City's Construction Inspector. Flushing shall comply with requirements of these Standards.

5-14 **CHANNEL LINING INSTALLATIONS**

Channel lining installations shall conform to Improvement Standard [4-13](#), [4-14](#) and [4-17](#) and to the following specifications:

- A. **Surface Preparation:** The surfaces of the areas to be lined shall be evenly graded to the lines and grade and sections as indicated on the approved plans. The surfaces shall be moistened thoroughly to prevent moisture from being drawn from the freshly placed lining.

All surfaces on which lining is to be placed shall be free from water, mud and debris and shall be firm enough to prevent contamination of the fresh lining by earth or other foreign material. Prior to placing any lining, the Contractor shall verify line and grade of the excavated channel.

- B. **Reinforcement:** Welded wire fabric shall be embedded in the concrete so that it will be a minimum of 1" clear from either face of the concrete, unless otherwise noted.

- C. **Joints:**

1. **Construction Joints:** Shall be square and edged with a 1/4" radius-edging tool. The edge shall be thoroughly wetted before the next section of lining is placed. Construction joints shall be constructed whenever the operation is halted for a period exceeding thirty (30) minutes. Welded wire fabric reinforcing shall extend through the construction joint.

2. **Deep Tool Joints:** Transverse deep tool joints shall be constructed at ten (10) foot intervals. The aggregate shall be separated with the joint tool a minimum of 2" deep. Immediately following application of the deep tool, a 1/4" grooving tool shall be applied to the surface to seal the joint.

- D. **Weep Holes:** On channels with side lining extending more than 18" vertically above the channel toe, weep holes shall be constructed at intervals of 10', midway between contraction joints on each side of the channel. The weep hole elevation shall be 12" above the adjacent toe of slope.

The holes shall be backed by a minimum of one (1) cubic foot of aggregate material tied in a burlap bag.

The aggregate shall extend at least 6" above and below and to each side of the weep hole and at least 10" into the side slope. The side and back of the burlap sack shall be protected from being coated by mortar or concrete during the lining placing operation.

On the day following the lining placement, each weep hole shall be rodded to assure it has not been blocked. The weep hole shall then be cut to fit the channel slope.

- E. **Cutoff Walls:** Cutoff walls shall be constructed around the perimeter at each end of the channel lining and at all locations where the new lining meets structures or

existing lining and at all other locations shown on the approved plans. The cutoff walls shall be a minimum of 6" thick and 18" in depth, as measured from the surface of the lining. The welded wire fabric shall be bent down into the cutoff walls.

- F. Geotextile Lining: Geotextile Linings shall follow the manufacturer's recommendations for preparation of soil, seed bedding, blanket orientation, anchoring details and appropriate seed blend and application rates.

5-15 ABANDONING STORM DRAINS

In newer construction, storm drain stubs and services to be abandoned shall be either removed to the main or manhole of origin or filled solid with concrete slurry, at the discretion of the City Engineer. Abandonment of existing storm drain stubs shall be removed or left in place as directed by the City's Construction Inspector and/or as shown on the approved plans.

SECTION 6

DOMESTIC WATER SUPPLY SYSTEM

6-1 INTRODUCTION

Design of water facilities shall conform to the requirements set forth in the most recent standards of the Placer County Water Agency (PCWA), the National Fire Protection Association (NFPA 24), and the City of Rocklin Fire & Life Safety Standards.

6-2 WATER SUPPLY QUALITY

The quality of the water shall conform to the Environmental Protection Agency Drinking Water Regulations.

SECTION 7

SANITARY SEWER DESIGN

Design of sewer facilities shall conform to the requirements set forth in the South Placer Municipal Utility District Standard Specifications and Improvement Standards “Latest Edition”.

SECTION 8

STREET LIGHTS

8-1 STREET LIGHTS REQUIRED

Street lights shall be required for all lots and parcels being developed or constructed upon. In addition, street lights may be required for lots and parcels containing existing structures which are being improved or altered, depending on the nature and extent of the work. Illustrations of street lights generally required are shown on the [Standard Drawing 7-2](#). Street lights shall only be energized after City acceptance of the installation.

8-2 DEVELOPER'S RESPONSIBILITY

Existing street lights which must be relocated or repositioned as a result of the construction of new streets or driveways into a development shall be the responsibility of the developer.

The Contractor installing the street lighting system shall give the City of Rocklin or its' Inspector, a minimum of twenty-four (24) hours' notice prior to performing any work on the project. All work installed without inspection will be rejected.

8-3 MAINTENANCE DISTRICT ANNEXATION REQUIREMENT

All developments other than subdivisions which contain street light installations shall complete and submit to the Director an agreement petitioning the City Council to annex the property to the City of Rocklin Street Lighting Maintenance District. The City will provide Annexation Agreement forms, upon request.

8-4 GENERAL PLAN DETAILS

The plans shall show and identify all street lights to be installed, all existing lights in the immediate vicinity of the project, and all applicable provisions and details specified in these standards. On subdivision plans, the street lights shall be shown on a separate sheet and shall be included in the improvement plans.

8-5 DESIGN STANDARDS

Street lighting shall be designed in conformance with these standards, the current edition of the City of Rocklin Standard Construction Specifications, Pacific Gas and Electric, and the "American National Standard Practice for Roadway Lighting" of the American Standards Institute, except that the average horizontal maintained foot candles for the various street classifications shall be as shown in the [Standard Drawing 7-17](#).

8-6 STREET LIGHT DESIGN DETAILS

Design details for street lights are as follows:

- A. Intersections - All intersections shall conform to the [Standard Drawing 7-1](#).

- B. Cul-de-sacs Bulbs - All cul-de-sacs exceeding 130' in length, measured from the street light location at the intersection to the right-of-way line at the end of the cul-de-sac, shall have a street light within the bulb. The location of the street light within the bulb shall conform to the [Standard Drawing 7-2](#).
- C. Pedestrian Lanes - Street Lights shall be placed at both ends of pedestrian lanes.
- D. Spacing - Maximum street light spacing, measured along the street centerline, shall conform to the [Standard Drawing 7-1](#).
- E. Street Light Poles
 - 1. All street lights on thoroughfares, arterials, collector approach to arterials, and commercial/industrial roadways shall be type "A" and shall be Philips Lumec SSM8V-30-1P-BKTX with Arm Bracket MM1A-BKTX-LMS33718D and fixture DMS50-80W48LED4K-R-LE3S-120-BKTX or as approved by the Director.
 - 2. Street lights on all other roadways shall be type "B" and shall be Philips Lumec AM6W-16-BKTX with Arm Bracket MM-1A-BKTX and fixture DMS50-55W48LED4K-R-ACDR-LE3A-120-BKTX or as approved by the Director.
 - 3. The position of the street light poles shall conform to the Standard Drawings 7-1 & 7-2. Streetlight spacing shall be staggered and located at property lines when possible. Street light designs utilizing one side, median or opposite configurations shall be approved by the Director.
 - 4. Street lights shall be numbered according to the City's sequential numbering system. Street Light numbers shall conform to the requirements of [Standard Drawings 7- 13 to 7- 16](#). Contact Public Services Department to request street light numbers.
 - 5. Streetlight pole heights shall conform to the requirements of [Standard Drawing 7- 9](#). Alternate pole heights shall be approved by the Director.
 - 6. Streetlight mast arm lengths shall conform to the requirements of [Standard Drawing 7- 10](#). Alternate mast arm lengths shall be approved by the Director.
 - 7. The concrete footing requirements shall conform to the requirements of Street Light [Standard Drawings 7-3 & 7-4](#).
 - 8. The base leveling requirements shall conform to the requirements of Street Light [Standard Drawings 7-12](#).

- F. Luminaries - The type of street light and the appropriate wattage shall be specified on the plans. The luminaries shall be LED type with internal driver. All luminaries shall conform to the standards outlined in the Construction Specifications.

The light pattern for each luminaire shall be specified on the plans. The light pattern for each luminaire shall be obtained from the [Standard Drawing](#) 7-18.

1. All street light all be designed for 120-volt service unless connecting to an existing system. The maximum allowable line voltage variation shall be $\pm 5\%$. Line voltage variation shall be shown on the plans.

Cobra Style Street lights - LED Leotek Model GC1, wattage based on appropriate light calculations or City approved equal.

Post Top Street lights - LED General Electric Salem series or Philips Hadco, Philips Independence or an approved equal.

2. A service pedestal shall be required for all improvements requiring three or more street lights. The service pedestal shall conform to the requirements of [Standard Drawings](#) 7-8, 7-8A, 7B and 7-8C. The service pedestal shall open towards the street.

- G. Service - All street light systems shall have underground service provided. Service points shall be provided within a utility easement immediately adjacent to or within the right-of-way and shall be open and easily accessible to the street frontage. Utility (PG&E) point of connection shall be NO MORE THAN 5' from any service pedestal.

- H. Pull boxes

1. Except as noted, a number 3 ½ or number 5 concrete pull box shall meet the provisions of Section 86 of the most recent edition of the California Standard Specifications and Standard Plan. The pull box shall be installed within the concrete cap and installed per [Standard Drawings](#) 7-5 and 7-6.
2. Pull boxes shall not be more than 250' apart on long runs. Pull boxes shall not be placed where they will be subject to vehicular traffic or in curb ramps. Exceptions shall require approval of the Director.
3. Except as noted, all pull box covers shall be inscribed with "Street Lighting" and be secured with 3/8" bolts, cap screws, or studs, and nuts which meet the provisions of Section 86 of the most recent edition of the California Standard Specifications and Standard Plans.

I. Wiring

1. The wiring for the electrolier shall conform to the requirements of Streetlight [Standard Drawing](#) 7-20.
2. Except as noted, all wiring methods and equipment construction shall conform to the National Electric Code (N.E.C.) and applicable sections of the most recent edition of the California Standard Specifications.
3. All field connections and splices shall comply with Section 86 of the most recent of the California Standard Specifications and shall be full circle compression connectors with heat-shrink tubing insulation or Method B. Splices shall conform to the most recent edition of the California Standard Plans. Splices will only be permitted in grounded pull boxes or inside the light pole. All splices and terminal lugs shall be soldered by the hot iron, pouring or dipping method. Open flame soldering will not be permitted.
4. Unless authorized otherwise, all wiring shall be THW AWG. Copper only. For wire sizes #8 insulated and larger, wire shall be stranded copper. For wire sizes #10 and smaller, wire shall be solid copper. Unless otherwise specified, all wiring shall be of the following sizes.
 - a. All field wiring shall be #8 minimum.
 - b. Ground wire shall be #8 minimum solid.
 - c. All wire in pole: #10 minimum.
 - d. All wire to be connected to PG&E facilities shall be # Ø1 minimum.
5. Conductor and wiring schedule shall be shown on the plans.

J. Photoelectric Control - The photoelectric control shall be a Dark To Light (DTL) D120-1.0-S or an approved equal. All photoelectric controls shall be oriented to the north. For group controlled street lights, the photoelectric control shall be located in the service pedestal. All photoelectric controls shall conform to the following:

1. Photoelectric control must meet or exceed all requirements of ANSI C136.10-1996.
2. Line voltage operating range is 105 to 130 VAC at 60 Hz.
3. Load rating shall be 1,000 Watts tungsten 1800VA ballast.
4. Turn ON shall be 1.5 ± 0.3 foot-candles at 120 VAC.

5. Turn OFF shall be 1.5 times the turn ON.
6. Photocontrol shall have a sealed cadmium sulfide light sensor.
7. Photocontrol shall have instantaneous turn ON and 3 to 5 second turn OFF delay.
8. Cover of photo control shall be constructed of UV resistant material. Impact resistance shall be greater than 1.0 foot-pounds from – 40° C to + 65° C.
9. Control shall be capable of withstanding a drop of 3 feet to a concrete floor without causing damage to the housing or changing the electrical operation.
10. Plug blades shall be brass which plug into an NEMA twist-lock receptacle integral with the luminaire.
11. Surge protection shall be a metal oxide varistor (MOV) of at least 160 joules wired line to neutral.
12. The following shall appear on the base: month and year of manufacture; individual serial numbers; complete model description; operating voltage range; load rating; and provision for marking installation and removal dates. Year of manufacture shall be permanently molded on cover.
13. Contact “chatter” on opening of contacts (turn OFF of Control) shall not exceed 5 milliseconds.

K. Conduit

1. All conduit to be used shall be a minimum of 2” diameter, schedule 40 PVC. Exception shall be one and 1 ½” from pole base to box per [Standard Drawings](#) 7-4 and 7-5. Conduit shall have a 2-foot minimum cover from the top of conduit to the finished grade of the sidewalk, parkway, or roadway.
2. Steel conduit shall not be used without the prior approval of the Director. All steel conduit and other metal parts, including bonding bushing, shall be N.E.C. approved parts and shall be continuously bonded and grounded per N.E.C. requirements.
3. All bends and/or offsets shall be made with factory sections using approved couplers per N.E.C. requirements.
4. All empty conduits shall have a #10 green solid copper wire inside and sealed with a duct seal, approved by the Director, on both ends of the conduit.

5. The ends of all conduits installed in a service pedestal shall be sealed with a duct seal approved by the Director. Conduits stubbed for future extension shall be capped.
 6. Prior to placement of conduit, a bed of clean sand, a minimum of 2" thick, shall be placed in the trench. A minimum of a 4" thick layer of clean sand shall be placed over the conduit prior to backfill with additional material.
 7. All interconnect conduits shall have a #10 THW solid conductor, either green or purple in color installed, whether empty for future use, or with a cable installed. All conduits in all pull boxes, services, and controllers, shall be sealed with an approved sealant. All loop detector installations shall be sealed hot melt sealant. Asphaltic emulsion sealant will not be allowed.
 8. All service pedestals shall be installed at the back of the sidewalk per [Standard Drawing 7-7](#).
- L. Prior to installation, the Contractor shall submit to the Inspector one (1) copy of manufacturer's literature, and laboratory technical data for the following items:
1. Streetlight Poles
 2. Luminaires
 3. Mast Arms
 4. Photoelectric control
- M. Telecommunication
1. Telecommunication Conduit - Developer shall install telecommunication conduit within the Public Utility Easement of each street (Public or Private). The conduit shall be of 2" diameter PVC schedule 40 or with continuous #10 Green solid copper wire.
 2. A #5 telecommunication pull box will be supplied and installed for each and every lot and shall conform to the requirements of the most recent edition of the California Standard. One pull box may be installed at a property line to service 2 lots. In the event of a long run, the maximum distance between pull boxes shall not exceed 250', and be installed at a property line, or end of radius. All pull boxes to be installed Per [Standard Drawings 7-5 & 7-6](#).
 3. Spacing - Pull boxes shall be 250' apart.
 4. Pull box covers shall be inscribed with "telecommunication cable" and secured with 3/8" bolt or cap screws.

N. Sidewalk Replacement - Concrete sidewalk to be installed, or replaced, adjacent to existing curb or sidewalk, shall be performed in the following manner:

1. 3/4" holes will be drilled in the adjacent curb and/or sidewalk at approximately a five degree (5°) down angle with a minimum of two holes for each curb or sidewalk surface.
2. Spacing shall be a maximum of 6" from the existing concrete surface, and a maximum spacing of 2'.
3. A #4 rebar, 16" long, will be installed in the hole.
4. An approved two part epoxy will be provided to secure the rebar into the existing concrete.

SECTION 9

GRADING

9-1 INTRODUCTION

The City's authority to regulate grading on private property varies depending on the property's location. For properties located within specific plan areas of the City, the authority is provided by the zoning ordinance for the specific plan area. For properties which are not located within a specific plan area, the City's authority for regulating grading is provided by the City's Grading, Erosion and Sediment Control Ordinance and Chapter 33 and 18 of the California Building Code (CBC). The CBC requires that a Grading Permit be obtained from the City prior to beginning any grading work unless the work meets certain exemptions specified in the CBC. This is necessary to ensure that on-site drainage adequately accommodated, off-site drainage is conveyed through the project, the proposed grading is compatible with adjacent property topography and adequate erosion and sedimentation control measures are addressed.

This section specifies design and plan submittal requirements of grading Plans for private developments. It includes items pertinent for the City's review and reflects established professional engineering practice for preparation of Grading Plans. Questions and clarifications regarding this Section should be directed to the Engineering Division.

The City of Rocklin has adopted Stormwater quality design standards to reduce water pollution generated by urban runoff. These design standards are detailed in the Stormwater Quality Design Manual for the Sacramento and South Placer Regions and the City of Rocklin Post Construction/Low Impact Development Manual.

9-2 PLAN SHEET DETAILS

In addition to the requirements of Section 3, the following items shall be included on grading plans:

- A. Slope symbols for 3:1 slopes or steeper.
- B. Ridge and/or valley delineation.
- C. Typical lot grading details.
- D. Proposed spot and/or pad elevations.
- E. Flow directional arrows (offsite, around perimeter of development when adjacent to developed areas) and perimeter elevations at the property line.
- F. Existing spot elevations and/or contour lines onsite and offsite around perimeter of development. Where the existing terrain is not relatively flat, contour lines shall be mandatory. The spot elevations or contour lines shall be extended

offsite for a minimum distance of 50' (flat terrain-100' minimum) when adjacent to undeveloped areas. Contour lines shall be in maximum increments of 2'.

- G. Existing trees (variety, size and elevation at base of all oak trees 9" diameter or larger).
- H. Retaining wall details (symbols, construction details and limits).
- I. Back of sidewalk elevations.
- J. Storm drainage system.
- K. Typical sections across side yard property lines where the difference in finish pad elevations exceeds 2'. Delineated on the section shall be the side yard drainage swale and the minimum distance between the proposed building and the side yard property line.
- L. Names of adjacent subdivisions.
- M. Offsite intersecting property lines.
- N. Signature block for certification of pad elevations by Consulting Engineer (subdivisions only). [Standard Drawing](#) 1-1.
- O. For all export projects:

If export is offsite within Rocklin a separate grading plan showing area and route shall be approved by the Director (or their designee).

Location of spoiled disposal area on or off site within the City of Rocklin shall be as specified below:

1. Spoil slopes to be 3:1 or flatter.
2. Finish spoil heights to be less than 3'.
3. No spoil within 5' of property lines.
4. Spoil shall not block drainage patterns.
5. Spoil shall be levelled prior to acceptance of project.
6. Silt retention and erosion control details as necessary and specified in these Design Standards.

7. Location of temporary protective fencing for environmentally sensitive areas such as: creeks, wetlands, vernal pools, perennial streams and preserve areas.

P. Excavation and embankment earthwork quantities shall be shown on the plans.

9-3 BOUNDARY GRADING

Special attention shall be given to grading adjacent to the exterior perimeter property line of a development. All adverse effects to offsite properties adjacent to new developments shall be reduced to an absolute minimum. Fills and cuts adjacent to the exterior perimeter property line shall be designed in accordance with the following:

- A. Fills - Fills in excess of 1', shall not be allowed without adequate justification and approval by the Director. All fill material shall achieve 90% relative compaction certified by a registered Geotechnical Engineer.

When fills are unavoidable, they shall conform to the Standard Drawing 2-1 and shall be constructed in the following manner.

1. If possible, fill slopes shall be constructed offsite, with the property line being situated at the top of the fill.
2. A notarized right-of-entry shall be required for all offsite fills. The following note shall be placed on the plans: Right of Entry obtained from (name) on (date). If a right-of-entry cannot be obtained, a retaining wall shall be placed as near to the property line as practicable.
3. In lieu of offsite slopes, retaining walls, 5:1 slopes or flatter, or combinations thereof may be utilized onsite.

- B. Cuts - Cuts shall be constructed in accordance with the Standard Drawing 2-2, except that the slope setback from the property line to the slope hinge point shall be a minimum of 2' for all slopes steeper than 5:1.

- C. Fences - When fences are required, they shall be placed on the property line. The height of a fence shall be measured from the highest ground adjacent to the fence, regardless of the side that is developing.

9-4 INTERIOR GRADING

Differences in elevations across interior property lines within a development, such that slopes or retaining walls are required, shall conform to the [Standard Drawing 2-2](#) and the following:

- A. Property Lines - Property lines shall be situated at the top of fill and cut slopes. It is desirable that surface flow does not drain onto new slopes steeper than 5:1.

Grading shall be such that surface runoff will not be concentrated at the top of slopes, but will be allowed to sheet flow down the slopes.

Property lines shall be situated at the top sides of retaining walls with a minimum setback of 1' from the property line to the retaining wall.

- B. Slopes - earth slopes allowed shall be 2:1 or flatter (horizontal to vertical). Steeper slopes may be accepted based on Soils Engineer's recommendations. Minimum asphalt concrete surface slopes shall be 1% and minimum cement concrete slopes shall be 0.25%. All proposed slopes shall be shown on the plans by some type of slope symbol delineation.
- C. Interior Grading - Differences in elevations across interior property lines within a development, such that slopes or retaining walls are required, shall conform to the following:
 - 1. Cross lot drainage is not allowed unless specifically approved by the City Engineer for tree preservation. All single-family residential lots shall have Class 1 grading as per the [Standard Drawings](#) unless approved otherwise by the City Engineer. When a Class 2 or Class 3 lot grading plan is proposed as part of a tentative map application for a single-family residential subdivision, the tentative grading plan showing rear lot drains shall be supplemented with an alternative plan showing the effect on the subdivision if rear lot drains are not utilized.
 - 2. Retaining Walls shall be required whenever adjacent side lot elevations differ by more than 1 ½'. In such cases, a minimum 3' wide walk path shall be maintained adjacent to all side property lines. Where the Consulting Engineer feels that this path will be maintained without the use of a retaining wall, application for a waiver may be made by preparing and submitting a site plan scale on 8 ½" x 11" reproducible paper for each lot which is requested to be exempted, or by submitting a standard Lot Grading and Setback Guarantee. The Lot Grading and Setback Guarantee shall specify which lots for which a waiver of the retaining wall requirement is requested, shall state the minimum setback of the proposed structure from the toe of slope, and shall state that should the minimum setback not be possible during construction, a retaining wall shall be constructed to the requirements of these Design Standards. Upon approval, a copy of these will be given to the Building Division to utilize in their review. Any deviation to these plans will be subject to the approval of the Engineering Division.
 - 3. Property lines shall be situated a minimum of 1' inside the stop of fill or cut slopes when pad elevations differ by 1/2' or less. When retaining walls are used, the property lines shall be situated on the high side of the retaining wall with a minimum setback of 1.0' from the property line to the retaining wall. Where pad elevations differ by more than 1/2' and waiver of

placement of retaining walls is required per the requirements stated above, property lines shall be situated a minimum of 2.0' inside the stop of fill or cut slopes.

4. The maximum earth slopes allowed shall be 2:1 (horizontal to vertical). Minimum asphalt concrete surface slopes shall be one percent (1%) and minimum concrete cement surface slopes shall be one-quarter percent (0.25%). All proposed slopes that are 3:1 or steeper shall be shown on the plans by some type of slope symbol delineation.
5. Lots on the low side of streets at sag points shall have pad elevations a minimum of 1' above the 100-year water surface elevation assuming failure of all subsurface drainage systems.

9-5 RETAINING WALLS

Retaining walls, including limits, heights and construction details shall be shown on the development plans. Design calculations signed by the Consulting Engineer and including the registration number shall be required for all walls exceeding 30" in height or when a fence is an integral part of the wall. Any retaining wall greater than 4' from the bottom of the footing to the top of the wall will require a building permit.

Wood retaining walls shall not be allowed adjacent to street rights of way.

All retaining walls on commercial and multifamily developments placed at the property line shall be either concrete or masonry.

Grading shall be such that onsite runoff, other than side slope areas, will not flow over wood retaining walls.

Where pads on adjacent lots are 10' apart and the difference in elevation exceeds 2.5', a retaining wall will be required.

9-6 GRADING AT TREES

Grading at trees shall be done per the City of Rocklin most current tree preservation ordinance. No person shall conduct any activity within the Protected Zone of a Native Oak tree or Landmark Tree without approval of a Grading Permit issued conformance with the Tree Permit Conditions. Great care must be exercised when work is conducted upon or around Protected Trees. The purpose of this section is to define procedures necessary to protect the health of the Protected Trees. The policies and procedures described in this section apply to all encroachments into the Protected Zone of Protected Trees. All Tree Permits shall be deemed to incorporate the provisions of this section except as the Tree Permit may otherwise specifically provide.

A. General

1. Trenching within the Protected Zone of a Protected Tree when permitted, may only be conducted with hand tools in order to avoid root damage
2. Minor roots less the 1" in diameter may be cut, but damaged roots shall be traced back and cleanly cut behind any split, cracked or damaged trees.
3. Major roots over 1" in diameter may not be cut without approval of an Arborist. Depending upon the type of improvement being proposed, bridging techniques or a new site design may need to be employed to protect the root and the tree.
4. If any Native Ground Surface Fabric within the Protected Zone must be removed for any reason, it must be protected within forty-eight (48) hours.
5. An independent low-flow irrigation system may be used for establishing drought-tolerant plants within the Protected Zone of a Protected Tree. Irrigation shall be gradually reduced and discontinued after two (2) years.
6. Planting Live material under Native Oak Trees is generally discouraged and it will not be permitted within 6' of the trunk of a Native Oak Tree with a DBH of 18" or less, or within 10' of the trunk of a Native Oak Tree with a DBH of more than 18". Only drought-tolerant plants will be permitted within the Protected Zone of Native Oak Trees.
7. A minimum of 4' high protective fence shall be installed at the outermost edge of the Protected Zone of each Protected Tree or group of Protected Trees. The fence shall not be removed until written authorization is received from the Planning Director. Exceptions to this policy may occur in cases where Protected Trees are located on slopes that will not be graded. However, approval must be obtained from the Planning Department to omit fences in any area of the project. The fences must be installed in accordance with the approved fencing plan prior to the commencement of any grading operations or such other time as determined by the approving body. The Developer shall call the Planning Department and Engineering Division for an inspection of the fencing prior to grading operations.

Signs must be installed on the fence in four (4) locations (equidistant) around each individual Protected Tree. The size of each sign must be a minimum of 2' x 2' and must contain the following language:

WARNING:**THIS FENCE SHALL NOT BE REMOVED
OR RELOCATED WITHOUT WRITTEN
AUTHORIZATION FROM THE
PLANNING DEPARTMENT**

8. Once approval has been obtained, the fences must remain in place throughout the entire construction period and may not be removed without obtaining written authorization from the Planning Department.
9. A minimum of \$10,000 deposit, or amount deemed necessary by the approving body, shall be posted and maintained to insure the preservation of Protected Trees during construction. The deposit shall be posted in a form approved by the City Attorney prior to any grading or movement of heavy equipment onto the site or issuance of any permits. Each violation of any Tree Permit condition regarding Tree Preservation shall result in forfeiture of a portion of the deposit, at the discretion of the approving body.
10. In cases where a Tree Permit has been approved for construction of a retaining wall(s) within the Protected Zone of a Protected Tree, the Developer will be required to provide for immediate protection of exposed roots from moisture loss during the time prior to completion of the wall. The retaining wall shall be construction within seventy-two (72) hours after completion of the grading.
11. If required, preservation devices such as aeration systems, Oak Tree wells, drains, special paving and cabling systems must be installed per approved plans and certified by the Developer's Arborist.
12. Every effort should be made to avoid cut and/or fill slopes within or in the vicinity of the Protected Zone of any tree.
13. No grade changes are permitted which cause water to drain to within twice the longest radius of the Protected Zone of any Protected Tree.
14. Certification letters are required for all regulated activity conducted within the Protected Zone of Protected Trees. The Developer's Arborist will be required to submit a certification letter to the Planning Department within five (5) working days of completion of such regulated activity attesting that all of the work was conducted in accordance with the appropriate permits and requirements of this section.
15. The following information must be located and permanently retained in the construction trailer starting at the site planning meeting:
 - a. Arborist's report and all future modifications

- b. Tree location map with a copy of the tree fencing plan
- c. Tree permit and inspection card
- d. Approved Construction Plans
- e. Tree Preservation guidelines
- f. Approved Planting and Irrigation Drawings

B. Tree Permit Construction Phase

1. All work conducted within the Protected Zone of any Protected Tree shall be performed as required by this section and as required in project approval.
2. As a condition of the Tree Permit, the Developer will be required to submit a utility trenching-pathway plan for approval following approval of the project Improvement Plans. The trenching-pathway plan shall depict all of the following systems: storm drains, sewers, easements, water mains, area drains and underground utilities. Except in lot sale subdivisions, the trenching-pathway plan must show all lateral lines serving buildings. To be completely effective, the trenching-pathway plan must include the surveyed locations of all Protected Trees on the project as well as an accurate plotting of the Protected Zone of each Protected Tree.

The trenching-pathway plan should be developed considering the following general guidelines:

- a. The trenching-pathway plan must be developed to avoid going into the Protected Zone of any Protected Tree on its path from the street to the building.
- b. Where it is impossible to avoid encroachment, the design must minimize the extent of such encroachment. Encroachments and mitigation measures must be addressed in supplemental Arborist's reports.
- c. In some cases where utilities conflict with tree roots, the Contractor/Developer may have to bore per Engineer's request to avoid major root damage.

All of the tree preservation measures required by the conditions of the discretionary project approval, the Arborist's report and the Tree Permit, as applicable, shall be completed and certified by the Developer's Arborists prior to issuing an Occupancy Permit.

9-7 CERTIFYING PAD ELEVATIONS

Upon completion of the grading and prior to acceptance of the subdivision improvements by the City, the Consulting Engineer shall verify the final pad elevations.

The elevations shall be verified at the center and the corners of each pad. Elevation deviations or more than 0.20' shall be noted on the drawings.

A signature block, certifying that final graded elevations in the field are the same as those shown on the plans, shall be included on the drawings of the subdivision grading plans. The Consulting Engineer shall sign the signature block, certifying to the above, and shall provide one set of reproducible and two sets of record drawing grading plans to the Director. See City [Standard Drawing](#) 1-1.

9-8 [ROUGH GRADING PLAN REQUIREMENTS](#)

Grading Plans for subdivisions and all developments located within Planned Development zones shall conform to the same requirements as those specified for Finished Grading Plans excepting the following:

- A. Improvements - Only existing improvements such as utilities, curbs, gutters, etc. shall be shown. Utilities and streets to be constructed with the Improvement Plans shall not be shown as part of the Rough Grading Plans. Retaining walls can be included in the rough grading plans.
- B. Drainage - All rough plans shall provide for positive surface drainage flow except in those instances provided on the plans for erosion and/or sedimentation control.

9-9 [ROLLING TERRAIN GRADING](#)

Grading of rolling terrain shall be accomplished in a manner whereby the effect of the rolling terrain is maintained as close to that which exists, to the extent practicable. Every effort shall be made to keep grading of rolling terrain to an absolute minimum.

9-10 [STORMWATER POLLUTION PREVENTION PLAN \(SWPPP\)](#)

A site specific SWPPP shall be submitted concurrently with the Improvement and /or Grading Plans when a project disturbs an area more than 1 acre. For information concerning the preparation of a SWPPP, the Project Engineer should refer to the California Stormwater Quality Association (CASQA). "Stormwater BMP Handbook / Construction", and the State of California NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities.

The SWPPP shall match identically to that of the SWPPP submitted to the State Water Resources Control Board via their electronic SMART system, up until the time improvement plans are approved, encroachment and/or grading permits are issued, and construction commences.

SWPPPs are not required for projects under one acre, unless they are part of a larger development encompassing over one acre. For projects less than one-acre, an erosion and sediment control plan shall be submitted with the improvement plans to the City for approval. This is generally part of the Grading Plan for the development. The Engineering Division will accept the erosion and sediment control plan upon review of

the project. All erosion and sediment control devices shall be identified and implemented in the same fashion as projects with SWPPPs over one acre. Enforcement will be conducted similarly, with exception to SWPPP administrative requirements.

- A. Criteria - The purpose of the SWPPP is to ensure protection of the following:
 - 1. Water Quality - Measures shall be provided to prevent siltation of streams, rivers, etc.; avert in stream degradation due to turbidity and pollutant load; and prevent toxic materials from leaving construction sites.
 - 2. Collection System - Methods shall be provided to prevent sediment from entering the storm drainage system.
 - 3. Adjacent Properties - Methods shall be employed to prevent any damage to adjacent properties.
- B. SWPPP Site Plan Requirements - SWPPP site plan(s) shall be submitted along with other SWPPP State permit required documents.

The discharger shall ensure that the SWPPP for the project site is developed and amended or revised by a Qualified SWPPP Developer (QSD). The SWPPP shall be designed to address the following:

- 1. All pollutants and their sources, including sources of sediment associated with construction, construction site erosion and all other activities associated with construction activity are controlled;
- 2. Where not otherwise required to be under Regional Water Board permit, all non-stormwater discharges are identified and either eliminated, controlled, or treated;
- 3. Site BMP's are effective and result in the reduction or elimination of pollutants in stormwater discharges and authorized non-stormwater discharges from construction activity to the BAT/BCT standard;
- 4. Calculations and design details as well as BMP controls for site run-on are complete and correct, and
- 5. Stabilization BMP's installed to reduce or eliminate pollutants after construction are completed.
- 6. Phasing of Erosion Control Measures - The Engineering Division may require phasing of the SWPPP plan(s) to ensure that all necessary erosion control measures are taken during separate phases of construction. As an example, this may require the Developer to construct sediment traps and basins during the first phase of grading operation.

7. To demonstrate compliance with requirements of the SWPPP, the QSD shall include information in the SWPPP that supports the rational used in selecting BMP's including supporting soil loss calculations, if necessary, conclusions, selections, use, and maintenance of BMP's
 8. The discharger shall make the SWPPP available at the construction site during working hours while construction is occurring and shall be made available upon request by State or City inspectors. When the original SWPPP is retained by a crew member in a construction vehicle and is not currently at the construction site, current copies of the BMP's and map/drawing will be left with the field crew and the original SWPPP shall be made available via request by radio/telephone.
- C. SWPPP Control Measures Requirements - The following is a list of requirements for erosion and sediment control measures, also referred to as BMPs (Best Management Practices). The following erosion and sediment control requirements shall be part of site specific SWPPP.
1. All sediment control measures (drain inlet protection, perimeter protection, stabilized construction access, etc.) shall be implemented prior to the commencement of grading operations or other construction activities or as approved by the City Engineer. Grading during the wet season should be minimized.
 2. An adequate supply of erosion and sediment control materials (fiber rolls, blankets, mats, straw bales, silt fencing, etc.) shall be stored onsite throughout the course of construction and made available for maintenance and repair work.
 3. Straw, when used, shall be broadcasted, or hand distributed, at a rate of 4000 pounds per acre. Straw shall be anchored to soil surface by "punching", "pressing", or by tacking down using a tackifier.
 4. Slopes steeper than 4:1 and adjacent to the City right-of-way, flood plains, natural drainages, park land or designated open space shall be broadcast seeded and covered with a blanket material grade appropriate to the steepness and length of the slope. Alternative methods shall be approved by the Engineering Division.
 5. All areas of disturbed soil, regardless of slope, shall be protected for erosion control. For measures approved by the City for erosion control, see the California Stormwater Quality Association (CASQA) "Stormwater BMP Handbook/Construction" and the State of California NPDES General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities.

6. Where required, broadcast seed shall be applied as follows:

Blando Brome 12lbs/acre
 Rose Clover 9lbs/acre

Areas with sandy, dry soil shall be:

Zorro Annual Fescue 2lbs/acre
 Rose Clover 9 lbs/acre

16-20-0 fertilizer or equivalent shall be applied at the rate of 500 pounds per acre. If hydro-seeding/mulching is used, seed quantities shall be increased by 30 percent.

For areas adjacent to City designated open space, perennial streams, creeks, or environmentally sensitive areas, native seeds shall be used. Approved seed blends are listed below. Seed blends and proposed alternate seed blends shall be Submitted to the stormwater or construction inspector for approval prior to application.

Dry Mix

Botanical Name (Common Name)	Ecotype/Origin	Approximate Live Seeds/Bulk Lb.	Approximate Live Seeds/Sq. Foot	Bulk Lb./Acre
Nassella pulchra (purple needlegrass)	Yolo County: Stone Ranch	50,000	14.9	13.00
Nassella cernua (nodding needlegrass)	Tehama County: Inks Creek	115,000	15.8	6.00
Bromus carinatus (California brome)	Amador County: Sierra Nevada	47,000	5.4	5.00
Poa secunda (one sided bluegrass)	Yolo County: Fiske Creek	500,000	11.5	1.00
Vulpia microstachys (three weeks fescue)	Yolo County: Fiske Creek	350,000	16.1	2.00
Melica californica (California melic)	Yolo County: Fiske Creek	240,000	16.5	3.00
		TOTAL:	63.7	30.0

Swale/Wet Mix

Botanical Name (Common Name)	Ecotype/Orgin	Approximate Live Seeds/Bulk Lb.	Approximate Live Seeds/Sq. Foot	Bulk Lb./Acre
Nassella pulchra (purple needlegrass)	Yolo County: Stone Ranch	50,000	9.2	8.00
Bromus carinatus (California brome)	Amador County: Sierra Nevada	47,000	5.4	5.00
Vulpia microstachys (three weeks fescue)	Yolo County: Fiske Creek	350,000	8.0	1.00
Elymu glaucus (blue wildrye)	Butte County: Llano Seco Ranch	120,000	11.0	4.00
Leymus triticoides (creeping wildrye)	Yolo County: Yolo Bypass	125,000	11.5	4.00
Hordeum brachyantherum (meadow barley)	Yolo County: Yolo Bypass	75,000	6.9	4.00
Elymus trachycaulus (slender wheatgrass)	Yolo County: Willow Slough	69,000	6.3	4.00
		TOTAL:	52.0	30.0

These are broadcast seeding rates. To get the hydro seeding rate, multiply the rates by 1.5 to get 45/lbs. per acre.

7. No grading or trenching, except as required for erosion or sediment control, shall occur within 35 feet from the edge of perennial streams, creeks, or environmentally sensitive areas between October 1 and April 30 unless approved by the Engineering Division.
8. All erosion and sediment control measures shall be checked prior to, and following all storms to ensure that all measures are functioning properly.
9. Sediment and trash accumulated on-site, in drainages, or detention basins shall be removed and properly discarded as soon as possible.
10. Construction activities throughout the year shall have erosion and sediment control measures in place or capable of being placed within 24 hours. The Contractor shall ensure that the construction site is prepared prior to the onset of any storm. Per the States General Construction Permit, a Rain Event Action Plan (REAP) shall be reviewed and completed by a qualified SWPPP practitioner (QSP) 48 hours prior to a rain event.
11. The Contractor shall establish a specific site within the development for maintenance and storage of equipment or any other activity that may adversely contribute to the water quality of the runoff. This area shall include secondary containment measures such as, but not limited to weather protected bins, awnings, tubs for liquid pollutant containers, and spill kits, etc. This area shall be managed to prevent spills and stormwater

from coming into contact with pollutants, and shall be restored to an acceptable condition upon completion of project.

12. Hydro-seeding and hydro-mulching may be considered as an alternative to broadcast straw subject to the Engineering Division's approval based on a review of the existing site conditions (location, slopes, proximity to streams) and time of year.
13. SWPPP shall define erosion and sediment control measure objectives, and clearly identify control measure selections.

SECTION 10

SOUND BARRIER DESIGN

10-1 LOCATION REQUIREMENTS

When project is conditioned sound barriers may be required along the rear and side property lines of developments adjacent to freeways, major highways and other ground level noise elements in order to achieve the noise control objectives of the City of Rocklin Noise Element and Noise Ordinance.

10-2 SOUND STUDY

When it appears to the Director that a sound barrier may be necessary or when a sound barrier is a condition of development, a sound study prepared by an Acoustical Consultant shall be submitted to the Department of Community Development before the improvement plans will be approved by the City Engineer. The sound study shall include a recommended height, material and termination limits for the sound barrier including all backup material leading to the recommendations.

10-3 DESIGN

The sound barrier shall be designed to attenuate to acceptable noise levels at the affected property line consistent with the Noise Element of the Rocklin General Plan.

10-4 PLAN REQUIREMENTS

All construction details for sound barriers, including the locations and limits, shall be shown on the site improvement plans.

10-5 DESIGN REQUIREMENTS

Sound barriers shall be designed in accordance with landscaping requirements for the area in which the project is located. Walls shall be designed for a minimum longevity of 50 years. Walls shall have a minimum height of 6' measured from the highest adjacent pad elevation. Footings shall be designed for a height of wall 18" higher than the constructed wall. All sound walls shall be designed for 75 MPH wind loads at exposure Level C. Structural calculations shall be provided to the City Engineer for all proposed sound walls. All construction details for sound barriers, including locations and limits, shall be shown on the Improvement Plans.

Anti-graffiti coating shall be applied to the City side of the sound wall. Coating shall be as specified in the Caltrans Standards Specifications 2010, Section 59-8, Anti-Graffiti Coating.

SECTION 11

BIKEWAYS

11-1 GENERAL

The City of Rocklin bikeway standards are designed to insure that transportation and recreational bikeways are constructed in a manner that would provide a safe and comfortable use by both bicycles and pedestrians. Bikeways shall be designed to enhance safety and reduce maintenance.

11-2 DESIGN CRITERIA

All bikeway design conform to the latest editions of the following documents:

- The American Association of State Highway and Transportation Officials “Guide for the Development of Bicycle Facilities”
- The State of California Department of Transportation (Caltrans) Highway Design Manual Chapter 1000, “Bikeway Planning and Design”
- The most recent version of the California Manual on Uniform Traffic Control Devices (California MUTCD) for Streets and Highways (FHWA’s MUTCD), as amended for use in California.
- These Standards and any applicable Specific Plan guidelines which pertain to various areas of the City. Specific Plan Guidelines are available from the Planning Department.

All Bikeway improvement plans shall be prepared per “Plan Sheet Requirements” of these Standards and shall be drawn at a scale no smaller than 1” = 40’. The plans shall show all existing and proposed grades, sidewalks, landscaping, fences, guardrails, utilities, street lights, traffic signs and any other structure which may be impacted by revisions to grading.

11-3 PLAN ACCEPTANCE

Prior to construction of any bikeway related improvements, a complete set of bikeway improvement plans must be accepted by the Engineering Division. See “[General Requirements](#)” of these Standards for submittal requirements of bikeway improvement plans.

11-4 CLASS I BIKEWAYS (Bike Paths)

Class I bike paths are facilities located in separate right-of-way, for the exclusive use of bicycles and pedestrians with minimal cross flow by motor vehicles. Sidewalks are not considered Class I facilities. Sidewalks, including Class IA Sidewalks, Bikeways, are not subject to this Standard. See “Streets” of these Standards for design requirement of sidewalks and pedestrian walks.

- A. Width - The minimum paved width for a two-way bike path shall be 10'. The minimum width of a one-way bike path shall be 5'. In each case, a minimum of 2' wide graded shoulders shall be provided adjacent to the pavement. One shoulder shall consist of Class 2 Aggregate Base material and one shoulder shall consist of decomposed granite. Where profile grades are 4% or more, the decomposed granite may be stabilized with lime/fly ash or cement treatment. Otherwise, Class 2 Aggregate Base material may be considered for both shoulders.
- B. Clearance to Obstructions - A minimum of 3' of horizontal clearance to obstructions, including post and cable fencing, retaining walls, buildings and other permanent improvements, shall be provided adjacent to the pavement where the downgrades are less than 4% and a minimum of 5' from the edge of pavement where downgrades exceed 4%. If a bike path is paved contiguous with a continuous fixed object, such as a block wall, a 4" white edge line, 2' from the fixed object, is required.

Manhole covers shall be located within the bike path's shoulder area, with preference given to the Class 2 Aggregate Base shoulder. The Class 2 Aggregate Base or decomposed granite material shall be extended 1' beyond the rim of the manhole cover.

In conditions where the bike path is located adjacent to creeks, ditches or downslopes greater than 3' horizontal to 1' vertical, a minimum shoulder width of 5' from the edge of pavement to the top of the slope is required.

The clear width on structures between railings shall be not less than 12' with a preferred width of 14'.

The vertical clearance to obstructions across the clear width of the bike path shall be a minimum of 12' when Fire Department access is required, otherwise 9', including bike paths placed beneath bridge structures. The minimum elevation of the path shall coincide with the two (2) year water surface elevation.

- C. Signing and Delineation - For applications and placements of signs and markings, see the California Manual on Uniform Traffic Control Devices (California MUTCD) for Streets and Highways

Guide signs to roadways, parks, and other points of interest shall be provided at trail junctions and as determined by the City Engineer.

All stripes and pavement markings for Class I bike paths shall be constructed with the paint per Section 84-3 of the CalTrans Standard Specifications.

- D. Intersections with Roadways - Bicycle path intersections and approaches should be on relatively flat grades. Stopping sight distances at intersections shall be met

for vehicle traffic per “Design Site Distances” of these Standards and adequate warning should be given to permit bicyclists to stop before reaching the intersection, especially on downgrades. Curb ramps shall be installed with the same widths as the bicycle path.

Where applicable, three (3) barrier post/bollards shall be placed on the bike path where it intersects with roadways. One (1) shall be placed in the center of the bike path and be of a lockable, folding/collapsible design. Two (2) permanent post/bollards shall be placed on either side of the bike path, one (1) within each shoulder. Striping around the bollards shall be in accordance with the California MUTCD.

When crossing an arterial roadway, the crossing should either occur at the pedestrian crossing or at a location completely out of the influence of any intersection to permit adequate opportunity for bicyclists to see turning vehicles.

Mid-block crossing shall be considered on a case-by-case basis by the City Engineer. In these instances, right-of-way should be assigned by devices such as stop signs or traffic signals which can be activated by bicyclists. Grade separations shall also be considered at the discretion of the City Engineer.

- E. Separation Between Bike Paths and Roadways - Bike Paths immediately adjacent to roadways and within medians are not recommended. Bike paths closer than 5’ from back of curb shall include a physical barrier to prevent bicyclist from encroaching onto the roadway. Suitable barriers could include dense shrubs or other materials approved by the Development Services, Planning and Parks and Recreation Departments.
- F. Design Speed - The minimum design speed for bike paths is 20 mph. When a downgrade excess 4%, the minimum design speed for the section of bike path is 30 mph.
- G. Grades - The maximum grade rate recommended for bike paths is 5%. However, steeper grades can be allowed for short segments.

When using grades steeper than 5%, the following grade restrictions and grade lengths are required:

5-6%	for up to 800’
7%	for up to 400’
8%	for up to 200’

The bike path segment immediately following a positive grade of 8% is required to have a maximum grade of 5%. All bike path segments with grades steeper than 5% shall be posed with the appropriate warning signs.

Any bike path segments designed with a grade greater than 8% will require approval by the City Engineer and Parks and Recreation Director.

- H. Horizontal Alignment and Superelevation - A 2% cross slope is required on tangent sections. Bike paths superelevations rates may vary from a minimum of 2% to ensure drainage to a maximum of 5%.

The minimum distance for a transition from a 2% cross slope is 75' per 1% change in superelevation.

The minimum radius of curvature can be derived from Figure 1003.1C of the Cal Trans Highway Design Manual. The minimum radius with any given combination of design speed, rate of superelevation and friction factor shall not be less 30'. The minimum radius of curvature may be increased to 45' if the bikeway will also serve to function as a utility maintenance access.

- I. Stopping Sign Distance - The minimum stopping sign distances for various design speeds and grades can be determined from Figure 1003.1D of the Cal Trans Highway Design Manual. For two-way bike paths, the descending direction grade and design speed will control the design.
- J. Lateral Clearance on Horizontal Curves - The minimum clearances to line-of-site obstructions for horizontal curves can be determined from Figure 1003.1F of the Cal Trans Highway Design Manual.

Bicyclists frequently ride abreast of each other on bicycle paths and on narrow bicycle paths, bicyclists have a tendency to ride near the middle of the path. For these reasons, and because of the serious consequences of head-on bicycle accidents, lateral clearances on horizontal curves should be calculated based on the sum of the stopping sight distances for bicyclists traveling in opposite directions around the curve. Where this is not possible or feasible, consideration should be given to widening the path through the curve, installing a solid yellow centerline, installing a curve warning sign, or combination of these alternatives.

- K. Vertical Curves - The minimum allowable vertical (sag or crest) curve length at the intersection of two grades shall be 50'; however, vertical curves may need to be omitted where the algebraic difference in grades does not exceed 2.0%. The minimum lengths of crest vertical curves can be determined from Figure 1003.1E of the Cal Trans Highway Design Manual. When vertical curves are required, they shall provide for adequate sight distance based on the minimum design speeds specified in these Standards.
- L. Structural Section - Bike path structural section shall be a minimum of 2" of Type A asphalt concrete on 4" of Class 2 Aggregate Base. In those cases where Class 1 bikeways will be accessed by maintenance and/or emergency response vehicles, the bikeway shall be capable of supporting a minimum gross vehicular weight of

thirty thousand (30,000) pounds. Based on an assumed Traffic Index equal to 4.0 for Class 1 bikeways, the table below identifies the appropriate structural sections to support a gross vehicular weight of 30,000 pounds:

R-value Range	Bikeway Structural Section
25<	2" AC/8" AB
25-40	2" AC/6" AB
>40	2" AC/4" AB

If soils analysis along the bike path identifies an R-value less than ten (10), the structural section shall be modified as necessary, by the recommendation of a geotechnical Engineer, to support thirty thousand (30,000) pounds and meet the Traffic Index Requirement 4.0. Soils tests shall be taken every 1,000' along the bike trail alignment or as directed by the City Engineer.

- M. **Drainage** - Bike paths constructed within cut-slopes shall have a drainage ditch of suitable dimensions along the uphill side to intercept the hillside drainage. Where necessary, drain inlets and drain pipes or other acceptable conveyance systems shall be provided to carry intercepted water across the bike path. Bike paths constructed on top of fill slopes shall have drainage ditches of suitable dimensions along the downhill side to intercept the trail's drainage. When necessary, drain inlets and drain pipes or other acceptable conveyance systems shall be provided to carry the intercepted water over the fill slope as to control erosion of the slope.
- N. **Access Points** - Access points with a width of 20' shall be placed in minimum intervals of 750' and the cable must be coated with yellow plastic to designate access. A Parks and Recreation Department padlock must be placed on both ends of access.
- O. **Temporary Bike Path Closures** - Should a bike path need to be closed temporarily, at a minimum, the following measures shall be taken: Signage warning users of the trail shall be provided on each side of closure; safety cones and orange safety fencing shall be provided as appropriate. Other measures may be taken as determined by the Public Works Department.
- P. **Bike Bridges** - Bridge design shall conform to the requirements for pedestrian and bicycle bridges within the latest edition of the California Department of Transportation (Cal Trans) Bridge Design Specifications.

The minimum width of a bike path bridge is 12' with a minimum vertical clearance of 12' when Fire Department access is required, otherwise, 10'. A straight-line approach of 35' is required on each side of the bridge.

All bicycle bridges shall be designed for a fire access use and maintenance vehicles, capable of supporting a minimum gross vehicular weight of thirty thousand (30,000) pounds. All bicycle bridges shall have the maximum gross vehicular weight rating posted on each approach.

Bicycle bridges may be designed to support a gross vehicle weight of less than thirty thousand (30,000) pounds but shall include maintenance vehicle traffic loading with the approval of the Fire Department and City Engineer. In cases where the bike trail is not required for fire access use and bridge loading is less than thirty thousand (30,000) pounds, the bike trail shall be designed to accommodate a fire vehicle turn-around area on each side of the bridge and/or provisions for alternative access.

- Q. Lighting - Lighting is not required along bike trails. However, lighting may be required through underpasses, tunnels, roadway intersections, mid-block crossings and whenever security could be a problem and at the City's discretion.

Depending on the location, average maintained horizontal illumination levels within underpasses and tunnels of 50' candles should be considered. Where special security problems exist, higher illumination levels may be considered. All lighting shall be designed with appropriate shielding to prevent unnecessary glare and resistant to vandalism.

Light standards should meet the recommended horizontal and vertical clearances as specified within these Standards. Luminaries and standards should be at a scale appropriate for a pedestrian on the bicycle path.

11-5 BIKE PATHS IN FLOODPLAINS

When a bike path is to be located in the City's Floodplain, the path shall be designed to be no more than 1' below the ten year storm event water surface elevation (10-WSE). Exceptions to this requirement may be allowed where the path goes under existing bridges to accommodate minimum vertical clearance. At these crossings, the path shall have an elevation at least as high as the two year storm event water surface elevation (2-WSE). All segments of the path that are below the 10-WSE shall be Portland Cement Concrete, or other approved material, with toe portion to prevent the path from being undermined during flood events. All segments of the path that are more than forty-five (45) degrees to the directional flow of the water shall be Portland Cement Concrete, or other approved material, and shall have armored embankments with toe protection to prevent the path from being undermined during flood events.

11-6 BIKE BRIDGES IN FLOODPLAINS

When a bike or pedestrian bridge is to be placed in the City's Floodplain, the minimum elevation of the bridge deck shall be at or above the 10-WSE. Bridge railings shall be designed to sustain the 100-year flood event without damage and without human intervention. Hydraulic and structural calculations shall be based on the assumption

that the bridge (with railings) is solid, not assuming that water will pass through the rails.

Bridge railings shall be a minimum of 54" high and shall have a toe board at the base of the guardrail.

All material used on the bridge shall be water resistant.

A letter of map revision (LOMR) may need to be submitted to FEMA for approval, as determined by the Department of Public Services.

Approach ramps to the bridge shall be armored to allow for cross flow around the bridge without damage to path. Where feasible, the approaches to the bridge shall contain a dip in the profile (lower than the bridge) to facilitate the water to flow around the bridge instead of directly over it. All portions of the path that are more than forty-five (45) degrees to the flow path shall be Portland Cement Concrete, or other approved material and shall have armored embankments with toe protections to prevent the path from being undermined during flood events.

11-7 CLASS IA SIDEWALK BIKEWAYS

Class IA sidewalk bikeways are typically located along major streets and separated from the normal vehicle lanes. They are primarily sidewalks, paseos, etc., that are wider than normal to accommodate both pedestrians and bicycles.

The design of Class IA sidewalk bikeways shall follow the design standards for pedestrian walk construction located within these Standards. The location and width of Class IA sidewalk bikeways shall follow the applicable Specific Plan guidelines which pertain to various areas of the City. Specific Plan Guidelines are available from the Planning Department.

11-8 CLASS II BIKEWAYS

Class II bikeways (bike lanes) shall be provided within all collectors and arterial roadways as shown per the cross sections for various roadways within these Design Standards

- A. Signing and Pavement Markings - Details for signage and pavement markings for Class II bikeways are found in the California MUTCD and within the Standard Drawings for streets within these Design Standards.
- B. At-Grade Intersection Design - Details for design of Class II bikeways at intersections are found within the Standard Drawings of these Design Standards.

Bicycle-sensitive detectors, signs and pavement markings for traffic signal actuation shall be included within the traffic sign design for all intersections requiring traffic signals and at the discretion of the City Engineer per Sections 4D.104 & 105 of the California MUTCD.

11-9 **CLASS III BIKEWAYS**

Class III bikeways are on-street routes designed by signs or permanent markings per the California MUTCD and are shared by motorists. The locations of Class III bikeway routes shall follow the Bicycle Master Plan and applicable Specific Plan guidelines which pertain to various areas of the City. Specific Plan Design Guidelines are available from the Planning Department.

SECTION 12

SURVEY MONUMENTS

12-1 SURVEY MONUMENTS, SUBDIVISIONS

Materials and workmanship shall conform to the requirements of the California Land Surveyors' Act and local standards and regulations. The Consulting Engineer shall place survey monuments at the following locations within their improvements:

- A. At the intersections of all street centerlines.
- B. At the beginning and end of all curves on the street centerlines.
- C. At all subdivision boundary corners designated by the Director (or their designee); at the intersections of subdivision boundaries with street centerlines; and such other locations so as to enable any lot or portion of the improvement to be retraced or located at the center of all cul-de-sacs and elbow points.
- D. The above described monuments shall be as follows:
 - 1. Section and quarter section corners shall be not less than " inside diameter galvanized iron pipe 30" long. The pipe is to be capped and marked in accordance with the instructions in Chapter 4 of the 1973 Manual of Instructions prepared by the Bureau of Land Management.
 - 2. Subdivision boundary monuments, except those in street pavement, shall be not less than 1 ¼" galvanized iron pipe, 30" in length, capped and tagged.
 - 3. Subdivision boundary monuments in street pavement shall be not less than 3/4" galvanized iron pipe, 18" in length (tagged or stamped). Top of pipe shall be driven flush with the surface pavement.
 - 4. All survey points described in Section 11-1 A and 11-1 B shall be marked with a 3/4" iron pipe 18" in length (tagged or stamped); or a railroad spike (stamped) by the Engineer or Surveyor. The pipe or spike shall be driven flush with the finished surface of the pavement.

However, in addition to the above, each Subdivision shall have not less than two centerline points, marked by box monuments and in Subdivisions exceeding 3,000' of centerline, inter-visible box monuments shall be set at a ratio of two inter-visible monuments per 3000' of centerline.

Box monuments shall be as shown in the Standard Drawing 3-34.

- 5. All centerline monuments shall be referenced to permanent objects located nearby and all ties shall be furnished to the City Engineer for general public

use. Final approval of the subdivision will not be made until such ties have been furnished to the City Engineer.

- E. Found monuments which are used to establish lines of the property being surveyed shall be rehabilitated to city standards when found in a perishable condition. In any case, such monuments if unmarked shall be marked with the user's registration number.
- F. Survey monuments shall be placed by the Consulting Engineer at all section corners, quarter corners, and centers of sections within the improvements and offsite, due to deed dependency, as required by the City Engineer.
- G. The Consulting Engineer shall place a note on all construction plans stating that:
 - 1. The Contractor is responsible for the protection of all existing monuments and other survey markers.
 - 2. That no final acceptance of the construction shall be issued until the survey monuments are in place and the centerline monument ties are furnished to the City Engineer's office.

SECTION 13

LANDSCAPING

13-1 GENERAL

The following Design Standards must be considered during the design of projects and incorporated into the plans and specifications where applicable. Projects must also be in accordance with the Standard Specifications for Public Works construction. Whenever special requirements conflict on any subject matter, the Director shall determine which special requirement will govern.

13-2 GRADING AND DRAINAGE

- A. Parkway drainage and common area drainage will not be allowed to drain onto private property. Design must incorporate provisions to minimize drainage over sidewalks and prevent ponding in parkways. No concentrated flow shall be allowed over curbs, sidewalks, and property lines.
- B. Subsurface drains shall connect into storm drain system. A secondary drainage path must be provided where grate inlet-type basins are used for drainage. Grate inlet type basin shall not be used where leaves or other debris may clog the grates. Steel drain lines shall not be used.
- C. Turf areas shall have a minimum slope of 2% and a maximum slope of 20%.

13-3 EROSION CONTROL

Cut slopes 2:1 and steeper, 5' or more in height and fill slopes 2:1 and steeper, 3 ft or more in height, shall require special design provisions be made to control erosion and runoff.

13-4 SIDEWALKS

- A. Sidewalks shall be constructed with a 4' minimum width if parkway is between curb and sidewalk, a 5' minimum width when adjacent to curbs, and a 6' minimum width if cars are to overhang the walks when parked.
- B. Sidewalks adjacent to the curb shall have a cross slope of 1/4" per foot one to two percent (1 - 2%), not to exceed two percent (2%). It will be necessary to provide grades and alignments on concrete sidewalks within the parkway in accordance with the design features desired.
- C. Public sidewalks shall be constructed as per City Standards. Private sidewalks shall be constructed as recommended in the approved soils report.
- D. Special paving shall not be allowed in streets, sidewalks, or intersections without prior approval of the Director.

- E. Sidewalk ramps shall be provided as required at street intersections and at other locations where sidewalks terminate at full height curbs, and shall comply with the most recent version of the Caltrans Standard Plans, the California Building Code, and [Standard Drawings](#) 3-12 and 3-13.

13-5 [VEHICULAR SIGHT REQUIREMENT](#)

If the project includes intersections or driveways onto public streets, the plan shall show the intersection, driveway and approaches, noting vehicular sight distance as required by the [Standard Drawings](#).

13-6 [MEDIAN AND PARKWAYS](#)

- A. Turf areas of parkways and medians shall be 6' wide, minimum. Shrub or groundcover areas shall be 4' wide, minimum.
- B. A 12" wide concrete mowstrip shall be required adjacent to curbs within all turfed landscaped medians. An 8" concrete mowstrip shall be required along walls and fences adjacent to turf areas. A 6" concrete mowstrip shall be required between turf and groundcover areas.
- C. Medians shall have a cross slope of 2% for both turf and groundcover areas unless the median is specifically designed for a special landscape treatment.

13-7 [IRRIGATION](#)

- A. All irrigation systems shall be designed to minimize vandalism (with special consideration in parks).
- B. Water velocity in system shall not exceed 5' per second.
- C. All irrigation systems shall have the design capability of delivering 1 ½" of water in a 5 day period. Watering time shall be between the hours of 10:00 P.M. and 6:00 A.M. unless subsurface irrigation is used.
- D. City maintained irrigation systems shall be designed to connect to the Central Computer Controller by a non-dedicated phone line and shall include moisture sensing, flow sensing capabilities, and the ability to operate Controller thru use of remote control (hand operated).
- E. Irrigation systems shall be designed to apply water at a rate which does not exceed the infiltration rate of the soil, and systems shall be programmable to prevent ponding and minimize runoff.
- F. Irrigation systems shall be designed to meet the peak moisture demand of all plant materials used within the design area. Individual station run time shall meet peak evapotranspiration (E.T.) rate. Separate remote control valves shall be used for shrub and groundcover areas versus turf, with sun and shaded areas also segregated.

- G. On all slopes or mounded areas requiring irrigation, lateral lines shall be installed parallel with contours. Provide separate remote control valves for sprinkler lines operating systems at the top, toe, and intermediate areas of slopes.
- H. Irrigation system shall be designed and operated to eliminate fogging and minimize overspray and discharge onto non-landscaped areas.
- I. The following specific constraints shall be adhered to during the design and any subsequent modification of irrigation systems using reclaimed water:
 - 1. Cross connections between potable water systems and other water systems are not permitted.
 - 2. Hose bibs are not permitted on irrigation systems using reclaimed water.
 - 3. Drinking fountains must be protected from the direct spray of reclaimed water by either proper placement of the drinking fountain or use of a covered fountain approved for this use.
- J. Irrigation systems shall be designed to provide uniform coverage throughout each system.
- K. All sprinkler heads shall be pop-up type.
- L. Sprinkler Heads:
 - 1. All sprinkler heads shall be spaced to not exceed 50% of the spray diameter (head to head coverage).
 - 2. In large turf areas and any area exposed to consistent winds, sprinkler heads shall be spaced to not exceed 45% of the spray diameter.
 - 3. No overhead spray unless approved in medians and parkways. Medians and parkways shall be drip irrigation for shrubs and groundcover, trees shall have bubbler heads. Sprinkler head spacing in medians and parkways shall not exceed the width of the landscape area.
 - 4. Large turf sprinklers with different patterns or different precipitation rates shall be operated by separate remote control valves.
 - 5. Use of sprinkler heads with a built-in check valve to reduce sprinkler head drainage.
- M. System design pressure shall not be greater than lowest available pressure during the previous 2 year period per PCWA records.

- N. Master valves, flow sensors, pressure regulating valve, and basket strainer equipment shall be required on all irrigation systems unless (domestic water and reclaimed water) otherwise approved by the Director. The strainer shall be located immediately downstream of the water meter.
- O. Gate valves shall be provided to allow shutting down various sections of the system independent of the entire system, and on the supply side of a line beneath a street.
- P. Backflow Prevention:
 - 1. All backflow prevention devices shall comply with requirements of Title 17 of the California Administrative Code, Placer County Health Department, PCWA, and City of Rocklin. Reduced pressure type backflow preventers are required for irrigation systems using domestic water. Shut-off valves shall be ball valves. The City recommends using Wilkins, Model 975XL2., or City approved equivalent
 - 2. System design shall prevent any back siphonage after system valves are closed.
 - 3. Backflow prevention devices are not permitted on irrigation systems using reclaimed water.
- Q. Remote Control Valves:
 - 1. The following criteria shall be used for locating remote control valves:
 - a. Locate valves in groundcover or shrub areas when possible.
 - b. Locate valves outside of designated athletic play areas.
 - c. Locate valves adjacent to paving to facilitate access.
 - d. For slopes, locate valves either at the top or toe of slope.
 - 2. Install remote control valves independently in green plastic valve boxes. Boxes shall be branded with the designated controller letter (if applicable) and value number.
- R. Quick Coupling Valves:
 - 1. Provide quick couplers a minimum of 100' on center in recreational areas and in general landscaped areas. Provide one quick coupler within 12" of paved end sections of landscape medians, and at the end of main line runs 200' and longer. Quick coupler valves shall be installed in green round plastic gate valve boxes with the lid head branded Q.C.

2. Quick couplers shall be located outside of designated athletic play areas and within an area of 12" to 18" from hardscape where possible.
3. Provide two quick coupling valves at each baseball field. Valves to be located at first base and third base adjacent to fence or dugout.
- S. Stub-out requirements for future systems extending beyond the limits of the current project, for mainline piping and components shall be determined by the Director.
- T. Drip irrigation or subsurface irrigation may be used with prior approval of the Director. Design shall include manufacturer's specifications.
- U. Anti-drain valves (inline and/or under sprinkler heads) shall be installed on all slopes greater than 5%. Inline anti-drain valves shall be installed in approved valve boxes.

13-8 PLANTING

- A. All plant material shall be in accordance with the appropriate ordinances, resolutions, and specifications established by the City.
- B. All plant material shall be in conformance with City-approved Streetscape/Street Tree Master plans where applicable. The City retains the right to prohibit any plant material generally known to require excessive maintenance, because of factors such as, but not limited to, disease, pest control, troublesome root development, invasive properties, ultimate size, and difficult growth habits.
- C. The use of drought tolerant plant materials that are particularly compatible with our local environment is encouraged to promote water conservation and reduce maintenance costs.
- D. Parkways adjacent to industrial, commercial, and institutional areas shall be maintained by the adjacent property owner.
- E. No trees shall be planted within right of way in industrial areas.
- F. In addition to minimum setback requirements for certain species as shown on the Tree List, the following minimum distances shall be required:
 1. Three feet from City maintenance limit line.
 2. Four feet from utility installations including, but not limited to sewers, gas, water lines, meter vaults, catch basins, etc.
 3. Ten feet from driveways.

4. Ten feet from fire hydrants.
 5. Twenty feet from light standards.
 6. Tree limbs must have a clearance of 14.5' over streets, 8' over bicycle trails, and 7' over pedestrian-traveled ways.
- G. Minimum sizes of trees shall be 15 gallons or as approved by the Director.
 - H. All turf shall be installed by hydro seeding or stolonizing unless alternative methods receive prior approval by the City Engineer.

13-9 LIGHTING

- A. All accent lighting shall be located on private property.
- B. All street, park, trail, and paseo lighting shall be vandal resistant and be LED lamps.
- C. All lighting shall be designed to conform with Section 8 and the requirements of PG&E.

13-10 TRAFFIC EQUIPMENT AND INSTALLATION

All traffic equipment and installation shall conform to Caltrans Standard Plans and Specifications.

EXHIBIT 2

STANDARD DETAIL UPDATES

SECTION 1 GENERAL

The existing Standard Details were updated and the changes are listed below. All details were approved by Rick Forstall, Director of Public Services, and Dave Palmer, City Engineer.

SECTION 2 DETAILS

Detail Note	Detail Title	Technical Updates
01-01	Signature Blocks	<ol style="list-style-type: none"> Added "Department Public Services" block. Changed "South Placer Municipal Utility District" to "SPMUD". Reorganized "Soils Report" block, "Placer County Water Agency" block, and "SPMUD" block position.
01-03	General Notes (Sheet 2 of 8)	<ol style="list-style-type: none"> On note 6, changed: <ol style="list-style-type: none"> "Engineering Division" to "Public Services". "(916) 625-5140" to "(916) 625-5500". Added notes 11 to 18.
01-04	General Notes (Sheet 3 of 8)	<ol style="list-style-type: none"> Reorganized "Streets" notes and "Earthwork and Grading" notes. Replaced entire note 3 with "All utility trenching to be done as per trench details." Changed "catch basins" to "drop inlets" on note 4. Changed "City of Rocklin improvements, standards detail 3-16," to "latest California Title 24" on note 5.
01-05	General Notes (Sheet 4 of 8)	<p>Streets (cont'd)</p> <ol style="list-style-type: none"> On note 11, changed: <ol style="list-style-type: none"> "developer and/or builder" to "contractor". "requested" to "required". On note 12, changed: <ol style="list-style-type: none"> "(916) 625-5877" to "(916) 786-8522" at the end of "Sewer" line. "(530) 823-4850" to "(530) 823-4886" at the end of "Water" line. "Works" to "Services" for "Storm drain, telecommunication, conduit, street light & traffic signals" utility contact info. "(800) 743-5000" to "(530) 889-3256" and "(530) 320-0149" at the end of "Electric & natural gas" line. "(530) 888-2607" to "(916) 409-1384" at the end of "Telephone" line. Added "/ATT" at the middle of "Telephone" line. "Star Stream" to "Wavebroadband Consolidated", "(916) 625-9277" to "(916) 630-7180" and "(916) 786-1217" at the middle and at the end of "Cable T.V." line, respectively. Changed "18" to "4-6" on note 14. <p>Earthwork and Grading</p> <ol style="list-style-type: none"> Changed "Engineering Division" to "Public Services" on note 1.

		<ol style="list-style-type: none"> 2. Changed "oak trees ... the approval of the change." to "utilities and trees and sensitive areas to be saved are adequately protected per the City of Rocklin construction specifications." on note 2.
01-06	General Notes (Sheet 5 of 8)	<p>Earthwork and Grading (cont'd)</p> <ol style="list-style-type: none"> 1. Deleted entire note 3. 2. Updated numerical order. 3. Changed "the owner's" and "the developer" on previous note 4 to "the city or it's" and "the city" on current note 3, respectively 4. Replaced entire previous note 6 with current note 5: "Utility trenching to be completed with final earthwork. The project will be temporarily suspended per sec 8-1.05 for allowing PG&E and Wave Broadband to install their respective facilities." 5. Previous note 7 became current note 6; changed "the recommendations from the City of Rocklin on dust control" to "a dust control plan"; between the first and second sentence of note 6, added "Prior to any grading ... all phases of construction." 6. Changed "15th" and "subdivision" on previous note 9 to "1st" and "road" on current note 8, respectively.
01-07	General Notes (Sheet 6 of 8)	<p>Earthwork and Grading (cont'd)</p> <ol style="list-style-type: none"> 1. Changed "the dates of March 15 thru July 15" on previous note 10 to "February through August" on current note 9. 2. Changed "export" and "import" on previous note 11 to "CY cut" and "CY fill" on current note 10; added "approx." to the beginning of the current sentence. <p>Striping</p> <ol style="list-style-type: none"> 1. Added note 1. 2. Previous note became note 2. <p>Construction staking/monumentation</p> <ol style="list-style-type: none"> 1. Replaced entire note 1 with "No work shall commence until staking is provided." <p>Landscaping</p> <ol style="list-style-type: none"> 1. Changed "AB325" to "Department of Water Resources" on note 1. 2. Added notes 2 through 9.
01-08	General Notes (Sheet 7 of 8)	<ol style="list-style-type: none"> 1. On note 15, changed: <ol style="list-style-type: none"> a. "6" to "8" in the second sentence on the first paragraph. b. Added "C76 reinforced concrete pipe" next to "Concrete pipe" line. c. "ASTM-C14 class 3 for sizes 10 and smaller" to "ASTM-12" is smallest". d. "class 3" to "class 5" at "ASTM-C76" line. e. Added "Refer to GS7-1.06" to the end of the last paragraph. 2. Deleted "(916) 652-5877" on note 16. 3. Deleted "(530) 823-4850 on note 17.
01-09	General Notes (Sheet 8 of 8)	<ol style="list-style-type: none"> 1. Added "Biological resources" notes.

01-10	Building Permit Block	1. Added "Building Department Permits" block.
02-01	Exterior Perimeter Property Line Grading	<ol style="list-style-type: none"> Added "1. A notarized ... property owner." under "Most Desirable" Added "and be constructed ... in height." at the end of "* Entire wall ... private property." Added "X2.1"X2.1" sheet" next to "6"X6"" at ""V" ditch detail".
02-02	Interior Property Line Grading	1. Added "1. A notarized ... property owner." under "Cut banks".
02-03	Redwood Retaining Wall Details	1. No longer accepted.
03-01	Typical Sections Residential Streets	<ol style="list-style-type: none"> Added "Notes: ... sidewalk details" in the top right corner. Added "1.5%", "2.5'", and "<2:1 Max" to "Minor street" detail. Added "2.5'", and "<2:1 Max" to "Cul-de-sac" detail.
03-02	Typical Sections Residential Collector Streets	<ol style="list-style-type: none"> Added "Caltrans detail 23", "2.5'", and "<2:1 Max" to "Residential collector" detail. Added "Caltrans detail 23", "2.5'", and "<2:1 Max" to "Residential Collector (with bike lanes)". Added "(with bike lanes)" next to the second "Residential Collector." Added notes 1 through 9.
03-03	Typical sections-industrial & commercial / collector approach to arterials	<ol style="list-style-type: none"> Added "Caltrans detail 23", lane's dimension, and lane's description to "Industrial & Commercial" detail. Added "Caltrans detail 23", "2.5'", "<2:1 Max", lane's dimension, and lane's description to "Collector Approach to Arterials" detail.
03-04	Typical sections minor arterial streets	1. Added "and gutter" next to "type 2 vertical curb", "Caltrans detail 13", "Caltrans detail 26", "Caltrans detail 39", and lane's description to "Minor Arterial" detail.
03-05	Typical sections primary arterial streets	<ol style="list-style-type: none"> Added "Caltrans detail 26", "14' for minor arterial streets", and "type IV typical curb per detail 3-15" to "Alternate Median" detail. Added "See IS 4-3 for structural street section" under "Alternate Median". Added "and gutter" next to "Type 2 vertical curb", "1.5%" slope, "detail 26", "detail 13", and "detail 39" to "120' street – Primary Arterial" detail.
03-06A	Typical sections semi rural	<ol style="list-style-type: none"> Added "Refer to IS 4-3 specifications for structural section of AB and AC". Added "6'" dimension to "Shoulder widening with A.C. dike" detail.
03-06B	Improved street with vegetated soil	1. New Drawing.

03-07	Cul-de-sac	<ol style="list-style-type: none"> Added fire hydrant's location to the detail. Changed "W 53" to "W53", "Improvement standards section 4-24." to "Caltrans W-53" on note 1. Added "Length of cul-de-sac ... existing street." to the end of note 4. Added note 5.
03-09	Standard casting adjusting detail and cold planning detail of existing streets	<ol style="list-style-type: none"> Changed "brick or concrete" to "grade rings within 2'".
03-15	Curbs and gutters	<ol style="list-style-type: none"> On "Type 1A": <ol style="list-style-type: none"> Changed "2%" slope to "1.5%" slope. Added angle to concrete layer with "2'" dimension. Rounded edges to "1/2" radius tip" on type 3. Added angle to concrete layer on type 2. Changed "class "B"." and "around perimeter at 18" intervals." to "minor concrete ... cement/cubic yard" and "with 1/2" X 12" ... existing concrete" on note 1, respectively. Added angle to concrete layer on type 1.
03-15A	Valley gutter	<ol style="list-style-type: none"> New Drawing.
03-16	Sidewalk ramps	<ol style="list-style-type: none"> Use current Caltrans detail.
03-17	Planter and barrier curb details	<ol style="list-style-type: none"> Changed "vapor" to "root" on "minor arterial, primary arterial, industrial and commercial development" detail.
03-18	Residential standard driveway	<ol style="list-style-type: none"> Added slope percentages to "plan view" detail. Changed "5'" dimensions to "varies" on "elevation" detail.
03-19	Commercial and industrial standard driveway	<ol style="list-style-type: none"> Added slope percentages to detail. Changed "8.33%" to "7.5%" on note 1. Changed "See note #9 on city standard detail 3-16." to "Refer to latest Caltrans standard." on note 2. Replaced entire note 4 with "Deep score joint not to exceed 10' between joints." Added note 6. Changed "2'" slope to "1.5'" slope on "section A-A" detail.
03-21	Alley details and driveway transitions	<ol style="list-style-type: none"> On the main detail: <ol style="list-style-type: none"> Added "If no sidewalk" to top left corner. Added "If sidewalk" to top right corner. Added slope percentages. Changed "3'" to "6' Min." Added "See current Caltrans spec for sidewalk specs" and "7.5% for sidewalk ramp". Added tactile strip to the right hand side. On "Section A-A": <ol style="list-style-type: none"> Changed "3.0%" slope to "2.0%" slope. Changed "6" to "8" on "redwood header both sides". Changed "class A P.C. concrete" to "Caltrans minor concrete 90-2.02"; and "2'" to "3'".

03-23	Special commercial frontage entrance type A-7	<ol style="list-style-type: none"> Updated numerical notations and removed dash lines on the main detail. On "Section B-B" detail: <ol style="list-style-type: none"> Updated numerical notations. Changed "1.5%" to "1.25%". On "Section A-A" detail: <ol style="list-style-type: none"> Updated numerical notations. Added "8" FOC" dimension. Changed previous ditch to "1.25'" slope on the right hand side. Changed "'6'" to "8'" thickness on the right hand side. Changed "Type 3 or 4 curb" to "retaining curb" on note 2. Changed "Case C" to "Type 1" on note 4. Added new note 7, 10, and 12; updated numerical order. Changed "Pour" and "8" from previous note 8 to "Place" and "9" on current note 9. On current note 16.: <ol style="list-style-type: none"> Changed "4" minimum of class B" from previous note 13 to "class II". Added "or native subgrade" next to "aggregate base" from previous note 13. Added "Under sidewalk, ... contractor's discretion" at the end of previous note 13. Changed "2%" from previous note 14 to "1% minimum, 2% maximum" on current note 17. Added note 18.
03-24	Sidewalk Barricade	<ol style="list-style-type: none"> Added "3" ø reflector typ.", "type N sign" with description, and second 2X6 redwood or Douglas fir. Changed "3'-0'" height to "30'" height. Added "(state of California specification 58-1.02)" at the end of "4X4X5' – 6" min redwood or treated Douglas fir". Added "property line". Replaced "Street ending in cut where slopes not obtainable" detail with "Detail for sidewalk barricade with retaining wall" detail. Added "and a hazard is present" at the end of note 1. Changed "91-3.02" to "91-03" on note 2. Deleted "*State of Calif. Specification #56-2.02B"
03-25	Street closure gated timber barricade	<ol style="list-style-type: none"> Added "R-26 no parking" sign to the detail. Added new note 3, updated numerical order.
03-26	Signs and barricades at end of pavement widening	<ol style="list-style-type: none"> Added "H.I.P. or better" at the end of "30" X 30" SW44".

03-33	Handicap parking space layout detail	<ol style="list-style-type: none"> On note 2: <ol style="list-style-type: none"> Deleted "see note #9 on city of Rocklin standard detail 3-16". Replaced "See grooving detail on City of Rocklin standard detail 3-19." to "Refer to latest Caltrans standards for details." Replaced entire note 3 with "No lip." Replaced entire note 4 with "Truncated dome per latest Caltrans standards." On note 5: <ol style="list-style-type: none"> Changed "60" Min." to "12' Min." Added "minimum" at the end of the first "parking stall".
03-34	Boxed survey monument for centerline intersection	<ol style="list-style-type: none"> Changed "forni" to "G5". Added "Class B concrete 5 sack."
03-35	Detectable warning truncated dome panel retrofit or replacement	<ol style="list-style-type: none"> On the detail: <ol style="list-style-type: none"> Deleted "6 sack, class a concrete per construction standard." Added "Rebar dowel typ." under "12" type." Added "X16" long" next to "#4 dowels" Added "Drill" between "concrete" and "5/8 holes." Added "Minor concrete – Caltrans 90-2 5.5 sack" Added "Dome detail ... be yellow" at the end of note.
03-36	Collapsing bollard detail	<ol style="list-style-type: none"> Changed "2'" to "24'" on note 8.
03-37	Typical traffic control lane closure/transition	<ol style="list-style-type: none"> Used latest detail and tables. Added "MPH" next to 40 and 45 on "taper formula". Changed "6'" to "8'" on warning sign's height. Added "Share the road" sign. On "Special notes": <ol style="list-style-type: none"> Changed "5 - 9" to "6C – 1". Replaced "most recent ... shall govern." with "California ... accompanying notes." Deleted note 2. and note 6., updated numerical order. Replaced "5-05 of this manual" from previous note 8 to "6 of the CAMUTCD 2006 edition and Caltrans standard plans." on current note 6. Changed "5-03.3" from previous note 9 to "6-6F.59 of the CMUTCD" on current note 7. Added note 9.
03-38	Permitted Driveways or streets on minor arterials	<ol style="list-style-type: none"> Added dimensions and descriptions to above detail. Added notes 1 and 2.
03-39	Standard concrete joint details	<ol style="list-style-type: none"> New Drawing.
03-40	Mow band	<ol style="list-style-type: none"> New Drawing.
03-41	Private gated entrance	<ol style="list-style-type: none"> New Drawing.

03-42	RW fence – farm with steel posts	1. New Drawing.
03-43	Wood post and cable fence	1. New Drawing.
03-44	Tubular steel post and cable fence	1. New Drawing.
03-45	AC pedestrian trail	1. New Drawing.
03-46	Overall sign configuration front view	1. New Drawing.
03-47	Top sign bracket configuration	1. New Drawing.
03-48	Bottom sign bracket configuration	1. New Drawing.
04-01	Drop inlet type “A”	<ol style="list-style-type: none"> Added “Notes: for type 1, refer to 4-4”. On “Type 2 curb” detail: <ol style="list-style-type: none"> Added “Top of curb stamped with “No dumping flows to creek” per 4-24”. Added “& gutter or type 5 curb” next to “Type 2 curb”. Added “& gutter” next to “Type 1 or 1A curb” on “Type 1 or 1A curb” detail. Changed “Depression” to “Gutter pan” on note 1.
04-02	Drop inlet type “B”	<ol style="list-style-type: none"> Added notes 7, 8, and 9. Added “and H-20 rated” at the end of note 4. Added “Sidewalk ... per 4-24” and “1/4” ... frame” to section A-A detail.
04-04	Drop inlet frame and grate for type “A” & “B” drop inlets	<ol style="list-style-type: none"> Added “USA made only” at the end of “Note: grate ... engineer.”
04-11	Grate type manhole cover	<ol style="list-style-type: none"> Changed “4-23” to “4-8” on note 1. Changed “4-23” to “4-8” on note 2.
04-12	Culvert outfall and stream bank slope protection	<ol style="list-style-type: none"> Added “if approved by the Army Corps 404 permit” to the end of “Both ... concrete” on section A-A detail. Added “SS-15 & SS-16 and Caltrans section 72.” to the end of “Stone ... specifications”.
04-13	Erosion control pipe discharge	<ol style="list-style-type: none"> Added note 3.
04-16	Pipe inlet structure and trash rack – 30” pipe and smaller	<ol style="list-style-type: none"> Added “Rack needs to hinge on top for maintenance” to “side view” detail.
04-17	Pipe outfall access control rack	<ol style="list-style-type: none"> Added note 7.
04-19	Under sidewalk drain	<ol style="list-style-type: none"> Changed “$\frac{3}{2}$” to “rebar”.

05-03	Trench excavation & backfill	<ol style="list-style-type: none"> 1. Changed "slurry seal" to "micro" on "Street repair/Repaving" note B. 2. Changed "2'" to "1 Foot" on "'Caution" ... tape".
05-04	Typical joint trench configuration	<ol style="list-style-type: none"> 1. Deleted "This is" at the beginning of "Note". 2. Changed "in" to "for" in note. 3. Added "Based on P.U.E width." to note. 4. Changed "TCC 3'" to "TCC 2'".
06-01	Fire Requirements	<ol style="list-style-type: none"> 1. Replaced old 06-01 2. Added reference: "Design of water facilities shall conform to the requirements set forth in the most recent standards of the Placer County Water Agency (PCWA), the National Fire Protection Association (NFPA 24), and the City of Rocklin Fire & Life Safety Standards."
06-01	Fire Protection Assembly	<ol style="list-style-type: none"> 1. DELETED
06-02	Fire Hydrant Assembly	<ol style="list-style-type: none"> 1. DELETED
06-03	Fire Post Indicator Valve Assembly	<ol style="list-style-type: none"> 1. DELETED
07-04	Concrete base detail for type "A" and "B" street lights	<ol style="list-style-type: none"> 1. Changed "24"X48"X6'" to "36"X36"X6'". 2. Changed "detail 7-3" to "detail 7-2". 3. Changed "24"X48'" to "36"X36'" on note 2. 4. Changed "12" to "17" on note 3. 5. Changed "21" to "18" on note 4.
07-05	No. 3 1/2 and No. 5 pull box installation	<ol style="list-style-type: none"> 1. Added "Conduit bushings" description to the detail. 2. Added notes 5 and 6.
07-06	Street light and signal pull box locations	<ol style="list-style-type: none"> 1. Added "with 6" concrete depth. (Thickness)" to the end of "***Concrete ... " 2. Added note 3.
07-07	Typical street light service pad	<ol style="list-style-type: none"> 1. Deleted "or 7-8B" on the detail.
07-08	Unmetered service pedestal	<ol style="list-style-type: none"> 1. Used latest detail from manufacturer.
07-08A	Metered service pedestal	<ol style="list-style-type: none"> 1. Used latest detail from manufacturer.
07-08B	Metered service pedestal	<ol style="list-style-type: none"> 1. Deleted "*** Foundation ... detail." 2. Deleted "*** For new construction installations."
07-08C	Dual metered service pedestal	<ol style="list-style-type: none"> 1. Deleted "*** Foundation ... detail." 2. Deleted "*** For new construction installations."
07-09	Street light poles and symbols	<ol style="list-style-type: none"> 1. Added ", aluminum," to note 1. 2. Added "or aluminum" to note 2.

07-10	Type "A" street lights for major streets and collectors	<ol style="list-style-type: none"> 1. Changed "induction" to "LED" on the detail. 2. Changed "thses" to "these" on note 1.
07-11	Type "B" street lights for minor streets	<ol style="list-style-type: none"> 1. Added "or aluminum" to the detail. 2. Changed "thses" to "these" on note 1.
07-17	Street light design criteria	<ol style="list-style-type: none"> 1. Changed "Induction lamp" to "LED" on the second table. 2. Changed six "II" to six "III" on the second table. 3. Changed "Induction lamp" to "LED" on the second note 1. 4. Added note 4.
07-19	Typical voltage drop calculation for 3-wire system	<ol style="list-style-type: none"> 1. Changed "induction" to "LED" in the first row on the right hand side table. 2. Changed "40" to "55" in the second row on the right hand side table. 3. Changed "150" to "101" in the last row on the right hand side table. 4. Changed "150 Watt induction" to "LED" on the "Legend".
07-20	Street light standard wiring diagram	<ol style="list-style-type: none"> 1. Added "from pole to box" to "1½" mi. PVC conduit."
08-01	Typical service and wiring schedule	<ol style="list-style-type: none"> 1. New Drawing.
08-02	Typical pole and equipment schedule	<ol style="list-style-type: none"> 1. Previous "DWG # 8-4" 2. Added "61-5-129 *" next to the table. 3. Changed "Induction" to "LED" on the 9th column. 4. Deleted "150" on the 9th column. 5. Deleted all notes. 6. Added "** Contractor ... city."
08-03	Typical conductor schedule	<ol style="list-style-type: none"> 1. Added notes on the right hand side and under the table.
08-04	Typical controller/service cabinet detail	<ol style="list-style-type: none"> 1. Previous "DWG # 8-2". 2. Changed "Refer ... pedestal" to "16" type III-AF service" on the detail. 3. Added "minor concrete" to the lower left corner.
08-05	Typical loop detector layout	<ol style="list-style-type: none"> 1. Updated to latest detail. 2. Added "bikes, ... count loops," between "** Separate DLC's shall be required for" and "and permanent". 3. Added "D= type "D" loop" to the legend.
09-01	Slope planting	<ol style="list-style-type: none"> 1. Added note 5.
09-02	Tree planting – single stake	<ol style="list-style-type: none"> 1. Changed "New rubber ... wire tie and" to "Vinyl tube tree ties" 2. Deleted "Approved trunk protector"
09-03	Tree planting – double stake	<ol style="list-style-type: none"> 1. Deleted "Approved trunk protector"
09-04	Tree guying	<ol style="list-style-type: none"> 1. Deleted "Approved trunk protector"
09-05	Root barrier planter box	<ol style="list-style-type: none"> 1. Deleted "Approved trunk protector"

09-09	Pop – up lawn sprinkler	1. Changed “6” above ... lowered position” to “at finished grade.”
09-13	Exterior mount automatic controller	1. Added “Add 1’ conduit”
09-15	Quick coupler valve	1. Added “insert ball valve here”
09-16	Gate valve	1. Changed “125” to “T-113” on note A.
09-17	Strainer / pressure reducing valve assembly	1. Added “Note: Do not use in city right of way.”

CITY OF ROCKLIN
STANDARD DRAWINGS



November 2016

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CITY OF ROCKLIN ENGINEERING DEPARTMENT	
APPROVED BY: _____	
CITY ENGINEER _____	DATE _____
CITY OF ROCKLIN FIRE DEPARTMENT	
APPROVED BY: _____	
FIRE CHIEF _____	DATE _____
DEPARTMENT OF PUBLIC SERVICES	
APPROVED BY: _____	
DIRECTOR _____	DATE _____
SOILS REPORT	
COMPANY NAME: _____	
JOB NUMBER _____	DATE _____
PLACER COUNTY WATER AGENCY	
APPROVED BY: _____	
ENGINEER _____	DATE _____
SPMUD	
APPROVED BY: _____	
ENGINEER _____	DATE _____
BUILDING DEPARTMENT PERMITS	
DEFERRED SUBMITTAL REQUIRED TO BUILDING DEPARTMENT FOR: _____ _____	



DRAWING APPROVED – CITY ENGINEER



DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
SIGNATURE BLOCKS	
SCALE: NONE	DWG # 1 – 1
DATE: DECEMBER 2015	
DRAWN BY: J. PINKHAM	

PROJECT NOTES

1. THE CONTRACTOR SHALL NOT BEGIN ANY WORK SHOWN ON THESE PLANS UNTIL THE CITY ENGINEER'S SIGNATURE OF APPROVAL IS AFFIXED HEREON AND ALL APPLICABLE PERMITS HAVE BEEN OBTAINED.
2. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CITY, OWNER OR ENGINEER.
3. THE CONTRACTOR IS HEREBY NOTIFIED THAT PRIOR TO COMMENCING CONSTRUCTION, HE SHALL CONTACT ALL UTILITY COMPANIES FOR VERIFICATION AT THE CONSTRUCTION SITE OF THE LOCATIONS OF ALL UNDERGROUND FACILITIES WHERE SUCH FACILITIES MAY CONFLICT WITH PLACEMENT OF IMPROVEMENTS SHOWN ON THIS PLAN. CALL "UNDERGROUND SERVICE ALERT" A MINIMUM OF 48 HOURS IN ADVANCE AT 811 OR (800) 227-2600 PRIOR TO ANY EXCAVATION.
4. THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES; HOWEVER, THE ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING FACILITIES SHOWN HEREON OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH THE CONTRACTOR MAY DISCOVER, BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY THE ENGINEER IF ANY SUCH FACILITIES INTERFERE WITH THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL STOP WORK UNTIL MITIGATIONS CAN BE MADE. ANY COSTS INCURRED RESULTING FROM THE CONTRACTOR'S FAILURE TO STOP WORK AS DIRECTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL MATERIALS, METHODS, AND WORKMANSHIP SHALL CONFORM TO THE SPECIFICATION OF THE AGENCIES INVOLVED AND ALL WORK IS SUBJECT TO THE APPROVAL OF THEIR DIRECTOR OR AUTHORIZED REPRESENTATIVE.



DRAWING APPROVED - CITY ENGINEER



DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION

GENERAL

NOTES

(SHEET 1 OF 8)

SCALE: NONE

DATE: MAY 2016

DRAWN BY: J. PINKHAM

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6. THE CONTRACTOR SHALL NOTIFY THE CITY OF ROCKLIN'S PUBLIC SERVICES INSPECTORS MON.-FRI. 8:00 A.M. TO 4:00 P.M. AT (916) 625-5500 FOR A PRECONSTRUCTION MEETING 48 HOURS IN ADVANCE OF STARTING ANY CONSTRUCTION ACTIVITIES. PLACER COUNTY WATER AGENCY AND SOUTH PLACER MUNICIPAL UTILITY DISTRICT REQUIRE AT LEAST 48-HOURS PRIOR TO ANY CONSTRUCTION REQUESTS FOR INSPECTION OF PUBLIC FACILITIES. THEREFORE NOTICE SHALL BE GIVEN 48-HOURS IN ADVANCE AND BE PERFORMED BY THE AGENCY'S DESIGNATED AGENT.
7. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY ENCROACHMENT PERMITS AND SHALL POSSESS APPROVED PLANS PRIOR TO BEGINNING OF CONSTRUCTION. A SET OF SIGNED AND APPROVED PLANS ARE TO BE ON THE JOB SITE AT ALL TIMES.
8. THE CONTRACTOR SHALL MAINTAIN THE EXISTING PUBLIC AND PRIVATE IMPROVEMENTS WITHIN THE WORK AREA AND SHALL ADEQUATELY BARRICADE THE PROJECT SITE TO KEEP THE GENERAL PUBLIC FROM THE SITE. ANY IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR.
9. THE CONTRACTOR MUST EXPOSE THE END OF EXISTING GRAVITY LINES FOR THE SURVEYOR TO VERIFY LOCATION AND DEPTH OF FACILITIES PRIOR TO CONNECTION OF PROPOSED UTILITY. THE CONTRACTOR SHALL INCUR ALL COSTS FOR SUCH EXCAVATION.
10. THE CONTRACTOR SHALL AT ALL TIMES COORDINATE HIS WORK WITH THAT OF OTHERS ON THE SITE. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PARTY, WHO SHALL HAVE THE AUTHORITY TO REPRESENT AND ACT FOR THE CONTRACTOR ON THE JOB SITE DURING ALL WORKING HOURS.
11. CONTRACTOR SHALL BE IN RECEIPT OF CITY APPROVED PLANS PRIOR TO CONSTRUCTION
12. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES INVOLVED IN THE DEVELOPMENT PRIOR TO BEGINNING OF WORK.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND/OR OTHER SURVEY MONUMENTS AND SHALL NOTIFY CITY OF ROCKLIN DEPARTMENT OF PUBLIC SERVICES OF ANY DAMAGED OR REMOVED CITY, STATE, OR BUREAU MONUMENTS. CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE ANY DAMAGED OR REMOVED MONUMENTS.
14. CONTRACTOR SHALL NOTIFY DEPARTMENT OF PUBLIC SERVICES UPON APPLICATION FOR PERMIT AND PAYMENT OF REQUIRED FEES.
15. THE CONTRACTOR SHALL VERIFY ALL STREET NAMES AND THEIR CORRECT SPELLING WITH THE FIRE DEPARTMENT AND BUILDING DIVISION BEFORE ORDERING STREET SIGNS
16. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING HIS OPERATION ENTIRELY OUTSIDE OF ANY FLOODPLAIN BOUNDARIES. FLOODPLAIN BOUNDARIES SHALL BE CLEARLY DELINEATED IN THE FIELD WITH ORANGE ESA FENCING AND SIX FOOT (6') STAKES TEN FEET (10') OC PRIOR TO CONSTRUCTION.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING HIS OPERATION ENTIRELY OUTSIDE OF ANY "NO GRADING AREA." THESE AREA SHALL BE CLEARLY DELINEATED IN THE FIELD PRIOR TO CONSTRUCTION.
18. WHERE WORK IS BEING DONE IN AN OFFSITE EASEMENT THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER 48 HOURS PRIOR TO COMMENCING WORK.



DRAWING APPROVED – CITY ENGINEER



DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

**CITY OF ROCKLIN
ENGINEERING DIVISION**

GENERAL

NOTES

(SHEET 2 OF 8)

SCALE: NONE

DATE: JUNE 2015

DRAWN BY: J. PINKHAM

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STREETS

1. PLACEMENT OF PROPOSED PUBLIC IMPROVEMENTS AND PROPOSED ONSITE IMPROVEMENTS SHALL NOT BE LIMITED TO THESE PLANS, BUT BE BUILT IN ACCORDANCE WITH THE CITY OF ROCKLIN IMPROVEMENT STANDARDS AND TO THE SATISFACTION OF THE CITY ENGINEER.
2. SIDEWALK RAMPS SHALL BE CONSTRUCTED AT THE CENTER OF ALL CURB RETURNS.
3. ALL UTILITY TRENCHING TO BE DONE AS PER TRENCH DETAILS.
4. ALL DROP INLETS SHALL BE TYPE "B" AS SHOWN IN THE CITY OF ROCKLIN IMPROVEMENTS STANDARDS, DRAWING 4-2, EXCEPT AS NOTED.
5. CONSTRUCT SIDEWALK RAMPS PER LATEST CALTRANS STANDARD
6. CONSTRUCT MONUMENT BOX PER CITY OF ROCKLIN IMPROVEMENTS, STANDARD DRAWING 3-34.
7. STOP SIGNS, THERMOPLASTIC STOP BARS, AND THE THERMOPLASTIC WORD "STOP" SHALL BE PLACED AS SHOWN ON PLANS. STOP SIGNS SHALL CONFORM TO CALTRANS STANDARDS (R1-1, 30").
8. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER WORK TO ASSURE THAT ALL UNDERGROUND CONDUITS AND UTILITIES ARE INSTALLED PRIOR TO PAVING. ALL PIPE IN PAVED AREAS SHALL BE PLACED PRIOR TO PLACING AGGREGATE BASE. NO CURB, GUTTER, SIDEWALK OR AGGREGATE BASE SHALL BE PLACED UNTIL ALL UNDERGROUND UTILITIES ARE INSTALLED.
9. EXISTING A.C. SURFACE SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL WITH THE STREET CENTERLINE AND THE EXPOSED EDGE AND VERTICAL EDGE OF GUTTER LIP SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE CONTRACTOR SHALL PREVENT SAW CUT MATERIAL FROM ENTERING DRAINAGE STRUCTURES, WATERWAYS, DRAINAGE SWALES, ETC.
MATERIAL SHALL BE GRADED, RECOMPACTED, AND RESEALED PRIOR TO PAVING. ANY CONCRETE, A.C., TREES, FENCES, AND/OR OTHER OBSTRUCTIONS REQUIRED TO CONSTRUCT THE IMPROVEMENTS SHALL BE REMOVED PRIOR TO PAVING.
10. TRAFFIC CONTROL PROCEDURES SHALL CONFORM TO THE MOST RECENT EDITION OF THE CALIFORNIA MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY OF ROCKLIN FOR THE METHOD OF TRAFFIC CONTROL PRIOR TO STARTING CONSTRUCTION.



DRAWING APPROVED – CITY ENGINEER



DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION

GENERAL
NOTES
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11. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR SIDEWALKS DURING THE CONSTRUCTION PHASE. IF THE CITY FINDS A SIGNIFICANT AMOUNT OF STREET DAMAGE, AN OVERLAY OF THE ENTIRE PROJECT OR STREET IN QUESTION WILL BE REQUIRED PLACED BEFORE A NOTICE OF COMPLETION IS PROCESSED. THE CONTRACTOR, DEVELOPER AND/OR BUILDER ARE TOTALLY RESPONSIBLE FOR THE QUALITY OF WORKMANSHIP ON THE PROJECT.
12. UTILITIES

SEWER:	SO. PLACER MUNICIPAL UTILITY DISTRICT	(916) 786-8522
WATER:	PLACER COUNTY WATER AGENCY	(530) 823-4886
STORM DRAIN,		
TELECOMMUNICATION		
CONDUIT, STREET		
LIGHTS & TRAFFIC		
SIGNALS:	CITY OF ROCKLIN (PUBLIC SERVICES)	(916) 625-5500
ELECTRIC &	PACIFIC GAS & ELECTRIC	(530) 889-3256
NATURAL GAS:		(530) 320-0149
TELEPHONE:	PACIFIC BELL/ATT	(916) 409-1384
CABLE T.V.:	WAVEBROADBAND	(916) 630-7180
	CONSOLIDATED	(916) 786-1217
13. SEE INDIVIDUAL AGENCIES FOR SIZE, TYPE, AND LOCATION OF THEIR PROPOSED FACILITIES
14. ALL OF THE ABOVE UTILITIES ARE MEMBERS OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE-CALL PROGRAM. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS PROJECT WILL BE REQUIRED TO NOTIFY MEMBERS OF (U.S.A.) 48-HOURS IN ADVANCE OF PERFORMING EXCAVATION WORK BY CALLING THE TOLL-FREE NUMBER (800) 227-2600. EXCAVATION, FOR THE PURPOSE OF THIS REQUIREMENT, IS DEFINED AS BEING 4-6" OR MORE IN DEPTH BELOW THE EXISTING SURFACE.

EARTHWORK AND GRADING

1. THE CONTRACTOR SHALL CONTACT THE CITY OF ROCKLIN PUBLIC SERVICES, 48 HOURS PRIOR TO THE START OF EARTHWORK AND GRADING CONSTRUCTION.
2. GRADING SHALL NOT OCCUR ON THE PROJECT AREA UNTIL ALL EXISTING UTILITIES AND TREES AND SENSITIVE AREAS TO BE SAVED ARE ADEQUATELY PROTECTED PER THE CITY OF ROCKLIN CONSTRUCTION SPECIFICATIONS.

 DRAWING APPROVED - CITY ENGINEER  DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES	CITY OF ROCKLIN ENGINEERING DIVISION	
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EARTHWORK AND GRADING (CONT'D)

3. ALL COMPACTION TESTING SHALL BE PERFORMED BY THE CITY OR IT'S DESIGNATED AGENT AND BE PAID FOR BY THE CITY (OR CONTRACTOR IN CASE OF RETESTING). TESTS WITHIN THE RIGHT-OF-WAY SHALL BE APPROVED BY THE CITY OF ROCKLIN AND ALL TESTS OUTSIDE THE RIGHT-OF-WAY SHALL BE CERTIFIED BY THE SOILS ENGINEER FOR THE PROJECT.
4. ALL UNSUITABLE AND SURPLUS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE UNLESS THE ENGINEER SPECIFIES OTHERWISE.
5. UTILITY TRENCHING TO BE COMPLETED WITH FINAL EARTHWORK. THE PROJECT WILL BE TEMPORARILY SUSPENDED PER SEC 8-1.05 FOR ALLOWING PG&E AND WAVE BROADBAND TO INSTALL THEIR RESPECTIVE FACILITIES.
6. THE CONTRACTOR SHALL AT ALL TIMES CONFORM TO A DUST CONTROL PLAN. PRIOR TO ANY GRADING OR CONSTRUCTION ACTIVITY, A DUST CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER AND THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT. THE DUST CONTROL PLAN SHALL SPECIFY MEASURES TO REDUCE DUST POLLUTION DURING ALL PHASES OF CONSTRUCTION. AREAS SURROUNDING THE WORK SHALL BE KEPT CLEAN AND RETURNED TO ORIGINAL CONDITION UPON COMPLETION OF CONTRACT. GRADING SHALL NOT OCCUR WHEN WIND SPEED EXCEEDS 10 MPH CONTINUOUSLY FOR MORE THAN 1 HOUR.
7. CONTRACTOR SHALL APPLY EROSION CONTROL HYDROSEEDING TO ALL GRADED OR DISTURBED SOILS WITHIN THE WORK AREA AFTER COMPLETION OF IMPROVEMENTS OR AS SOON AS PRACTICAL AFTER GRADING TO REDUCE DUST AND EROSION POTENTIAL. STRAW OR HYDROMULCHING SHALL BE COMBINED WITH THE SEEDING ON SLOPES EQUAL TO OR GREATER THAN 10:1 AND PLACED PRIOR TO COMPLETION OF PROJECT IF DEEMED NECESSARY FOR CONTROLLING SOIL EROSION.
8. THE CONTRACTOR SHALL DO THE FOLLOWING IF GRADING AND CLEARING IMPROVEMENTS ARE INCOMPLETE BY OCTOBER 1ST.
 - INSTALL EROSION PROTECTION ON SLOPES 10:1 OR STEEPER AND SWALES WITH SLOPES 2% OR GREATER
 - PREVENT SEDIMENT FROM LEAVING THE PROJECT AREA
 - GRADE GUTTER SAG POINTS TO DRAIN. PROVIDE FOR DRAINAGE FROM ENDS OF IMPROVEMENTS.
 - PREVENT SEDIMENTATION IN EXISTING STORM DRAIN SYSTEM AND CLEAN PIPES AS PER SPECIFICATION SECTION SS62.
 - SEAL OFF ALL SANITARY SEWER CONNECTIONS TO EXISTING SYSTEMS

THE CONTRACTOR SHALL MAINTAIN WINTERIZATION FACILITIES AT ALL TIMES UNTIL THE CITY ACCEPTS THE ROAD IMPROVEMENTS.



DRAWING APPROVED - CITY ENGINEER



DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

**CITY OF ROCKLIN
ENGINEERING DIVISION**

GENERAL

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SCALE: NONE

DATE: MAY 2016

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1-6

EARTHWORK AND GRADING (CONT'D)

9. PRIOR TO GRADING A RAPTOR SURVEY SHALL BE DONE AND NO CONSTRUCTION ACTIVITIES ARE ALLOWED WITHIN 0.25 MILES OF ANY IDENTIFIED RAPTOR NESTS BETWEEN THE DATES OF MARCH 15 THRU JULY 15 OR AS APPROVED BY DIRECTOR.
10. APPROX. QUANTITY OF EARTHWORK: _____ CY CUT, _____ CY FILL.
11. THOSE ENGAGED IN CONSTRUCTION ACTIVITY SHALL COMPLY WITH THE CITY OF ROCKLIN CONSTRUCTION NOISE COMPATIBILITY GUIDELINES, INCLUDING RESTRICTING CONSTRUCTION NOISE GENERATING ACTIVITIES WITHIN OR NEAR RESIDENTIAL AREAS TO BETWEEN 7:00 A.M. AND 7:00 P.M. ON WEEKDAYS AND 8:00 A.M. AND 7:00 P.M. ON WEEKENDS TO THE SATISFACTION OF THE PUBLIC WORKS DIRECTOR OR BUILDING OFFICIAL.

STRIPING


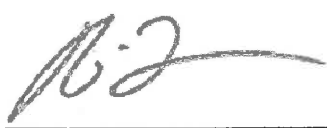
1. ALL EXISTING PAVEMENT MARKINGS TO BE REMOVED, SHALL BE REMOVED BY GRINDING.
2. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND ARE TO CONFORM TO THE MOST RECENT EDITION OF THE CALTRANS STANDARD SPECIFICATIONS AND PLANS.

CONSTRUCTION STAKING/MONUMENTATION

1. NO WORK SHALL COMMENCE UNTIL STAKING IS PROVIDED.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL MONUMENTS AND OTHER SURVEY MARKERS.
3. ALL SURVEY MONUMENTS SHALL BE SET IN ACCORDANCE WITH THE CITY OF ROCKLIN SUBDIVISION ORDINANCE PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF PUBLIC IMPROVEMENTS. MONUMENT BOXES SHALL BE FORNI "IRONSIDES" 1B-BODY WITH IL-LID MARKED "MONUMENT" OR APPROVED EQUAL.

LANDSCAPING

1. ALL LANDSCAPE AND IRRIGATION SHALL CONFORM TO DEPARTMENT OF WATER RESOURCES.
2. CONTRACTOR SHALL BACKFILL 24" OF TOPSOIL IN THE NEW MEDIAN.

 DRAWING APPROVED – CITY ENGINEER  DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES	CITY OF ROCKLIN ENGINEERING DIVISION	
	GENERAL NOTES (SHEET 6 OF 8)	
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15. STORM DRAINS

STORM DRAIN REQUIREMENTS SHALL BE PER THE CITY OF ROCKLIN STANDARD SPECIFICATIONS INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. MINIMUM OF 12" DIAMETER PIPE WITHIN CITY RIGHT OF WAY AND MINIMUM 8" DIAMETER PIPE ON PRIVATE PROPERTY.

PIPE ALTERNATIVES SHALL BE:

- CONCRETE PIPE C76 REINFORCED CONCRETE PIPE
ASTM-12" IS SMALLEST
ASTM-C76 CLASS 5 (UNLESS OTHERWISE SHOWN ON PLANS)
- HDPE (PER CALTRANS STANDARD, SECTION 64, MOST RECENT EDITION)

THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL NEW DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.

EXISTING STORM DRAIN FACILITIES SHALL BE EXPOSED AND INVERT VERIFIED PRIOR TO PLACEMENT OF PIPE. ALL CONSTRUCTION SHALL CONFORM TO MANUFACTURERS SPECIFICATIONS AND TO REQUIREMENTS OF THE CITY OF ROCKLIN STANDARD SPECIFICATIONS.

CONFINED SPACE ENTRY (STORM DRAIN MANHOLES): IT IS THE PROJECT OWNER/DEVELOPER'S RESPONSIBILITY AS HOST EMPLOYER TO HAVE A CONFINED SPACE ENTRY PROGRAM IN COMPLIANCE WITH THE REQUIREMENTS OF SECTIONS 5156-5159 OF TITLE 8, GENERAL INDUSTRIAL SAFETY ORDERS, CALIFORNIA CODE OF REGULATIONS. CITY OF ROCKLIN EXISTING MANHOLES ARE "PERMIT REQUIRED" CONFINED SPACES. THE HOST EMPLOYER'S CONTRACTOR MUST STRICTLY CONFORM TO CITY OF ROCKLIN PERMIT REQUIRED CONFINED SPACE ENTRY PROGRAM IN ENTERING ANY CITY OF ROCKLIN OWNED MANHOLE. REFER TO GS7-1.06

A "NO DUMPING" STORM DRAIN MESSAGE SHALL BE PLACED ADJACENT TO ALL DRAIN INLETS IN ACCORDANCE WITH CITY STANDARD DRAWING 4-24.

16. SEWER

CONTACT SOUTH PLACER MUNICIPAL UTILITY DISTRICT FOR REQUIRED NOTES PERTAINING TO THE SEWER SYSTEM.

17. WATER

CONTACT PLACER COUNTY WATER AGENCY FOR REQUIRED NOTES PERTAINING TO THE WATER SYSTEM.



DRAWING APPROVED - CITY ENGINEER



DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION

GENERAL
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DATE: JUNE 2015
DRAWN BY: J. PINKHAM

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BIOLOGICAL RESOURCES:

12. PRIOR TO GRADING OR CONSTRUCTION ACTIVITIES, THE OPEN SPACE/WETLAND/RIPARIAN AREAS SHALL BE FENCED WITH ORANGE CONSTRUCTION FENCING SUCH THAT THE FENCING SEPARATES THE PROJECT SITE FROM THE OPEN SPACE/WETLAND/RIPARIAN AREAS. THE FENCING SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY ENGINEER AND SHALL REMAIN IN PLACE DURING ALL CONSTRUCTION ACTIVITIES.

CULTURAL RESOURCES:

13. IF EVIDENCE OF ARCHEAOLOGICAL OR PALEONTOLOGICAL SITE IS UNCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN 100FT. OF THE FIND AND THE CITY OF ROCKLIN COMMUNITY DEVELOPMENT DEPARTMENT SHALL BE IMMEDIATELY NOTIFIED. A QUALIFIED ARCHAEOLOGIST OR PALEONTOLOGIST SHALL BE RETAINED AT THE EXPENSE OF THE DEVELOPER/CITY TO CONDUCT AN ON-SITE EVALUATION AND PROVIDE RECOMMENDATIONS FOR REMOVAL AND /OR PRESERVATION. WORK ON THE SITE SHALL NOT RESUME UNTIL THE ARCHAEOLOGIST OR PALEONTOLOGIST HAS HAD REASONABLE TIME TO CONDUCT AN EXAMINATION AND IMPLEMENT MITIGATION MEASURES DEEMED APPROPRIATE AND NECESSARY BY THE COMMUNITY DEVELOPMENT DEPARTMENT TO REDUCE IMPACTS TO A LESS THAN SIGNIFICANT LEVEL.
14. EVIDENCE OF HUMAN BURIAL OR SCATTERED HUMAN REMAINS RELATED TO PRE-HISTORIC OCCUPATION OF THE AREA COULD BE INADVERTENTLY ENCOUNTERED ANYWHERE WITHIN THE PROJECT AREA DURING CONSTRUCTION ACTIVITY OR OTHER ACTIONS INVOLVING DISTURBANCE TO THE GROUND SURFACE AND SUBSURFACE COMPONENTS. IN THE EVENT OF SUCH AN INADVERTENT DISCOVERY, WORK SHALL BE HALTED WITHIN 100FT. OF THE FIND AND THE CITY OF ROCKLIN COMMUNITY DEVELOPMENT DEPARTMENT AND THE COUNTY CORONER SHALL BE IMMEDIATELY NOTIFIED AND CONSULTED, PER STATE LAW.

AIR QUALITY

15. PRIOR TO ANY GRADING OR CONSTRUCTION ACTIVITY, A DUST CONTROL PLAN SHALL BE SUBMITTED FOR APPROVAL BY THE CITY ENGINEER AND THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT. THE DUST CONTROL PLAN SHALL SPECIFY MEASURES TO REDUCE DUST POLLUTION DURING ALL PHASES OF CONSTRUCTION.



DRAWING APPROVED – CITY ENGINEER



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CITY OF ROCKLIN
ENGINEERING DIVISION

GENERAL
NOTES
(SHEET 8 OF 8)

SCALE: NONE
DATE: JUNE 2015
DRAWN BY: J. PINKHAM

DWG #
1-9

CITY OF ROCKLIN
BUILDING DEPARTMENT

BUILDING DEPARTMENT PERMITS REQUIRED
A SEPARATE SUBMITTAL TO THE BUILDING DEPARTMENT IS
REQUIRED PRIOR TO THE CONSTRUCTION OF THE FOLLOWING
AMENITIES (Permits may be pulled individually or collectively
by a class "B" General Contractor or Developer:

- ☐ RETAINING WALLS: BUILDING PERMIT FOR INSPECTION ONLY
- ☐ SITE SOUND FENCES: BUILDING PERMIT FOR INSPECTION ONLY (POST-TENSIONED DESIGNED WALLS REQUIRE A SIGNED SPECIAL INSPECTION AND TESTING AGREEMENT FORM TO BE SUBMITTED TO THE BUILDING DEPT)
- ☐ STREET LIGHT FOUNDATION & ELECTRICAL (PRIVATELY OWNED AND MAINTAINED): BUILDING PERMIT FOR PLAN REVIEW AND INSPECTION
- ☐ COMMON USE AREA AMENITIES (STRUCTURES AND ADA ACCESS COMPLIANCE): BUILDING PERMIT FOR PLAN REVIEW AND INSPECTION
- ☐ ENTRY GATE ELECTRICAL AND MECHANICAL DESIGN BUILDING PERMIT FOR REVIEW AND INSPECTION
- ☐ SITE LIGHTING ELECTRICAL DESIGN (COMMON USE AREA LIGHTING, LIGHTED BOLLARDS, ETC.): BUILDING PERMIT FOR PLAN REVIEW AND INSPECTION
- ☐ _____



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CITY OF ROCKLIN
ENGINEERING DIVISION

BUILDING PERMIT BLOCK

SCALE: NONE
DATE: MAY 2016
DRAWN BY: J. PINKHAM

DWG #
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LOT PAD CERTIFICATION

I HEREBY CERTIFY THAT I HAVE FIELD VERIFIED THE FINISHED PAD ELEVATIONS AND THEY ARE WITHIN 0.20 FT. OF THE APPROVED ELEVATIONS AS SHOWN ON THESE PLANS. DEVIATIONS OF MORE THAN 0.20 FT. ARE NOTED INSIDE <> ON ALL FOUR CORNERS OF THE PAD AS WELL AS THE CENTER OF THE PAD AS REQUIRED BY THE CITY OF ROCKLIN IMPROVEMENT STANDARDS, SECTION 9-8.

PROJECT ENGINEER

DATE

RCE # OR L.S. #


DRAWING APPROVED – CITY ENGINEER


DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
LOT PAD CERTIFICATION SIGNATURE BLOCK	
SCALE: NONE DATE: MAY 2016 DRAWN BY: J. PINKHAM	DWG # 1-11

RECORD DRAWING

ALL INFORMATION SHOWN ON THESE PLANS HAVE BEEN PREPARED BY, OR UNDER THE DIRECTION OF, THE UNDERSIGNED ENGINEER. ADJUSTMENTS MADE IN THE FIELD DURING CONSTRUCTION ARE INCLUDED HEREIN WHEN THE PROJECT ENGINEER IS ADVISED IN WRITING OF SUCH CHANGE BY THE OWNER, DEVELOPER, CONTRACTOR OR THE CITY OF ROCKLIN.

PROJECT ENGINEER

DATE

RCE #



DRAWING APPROVED – CITY ENGINEER



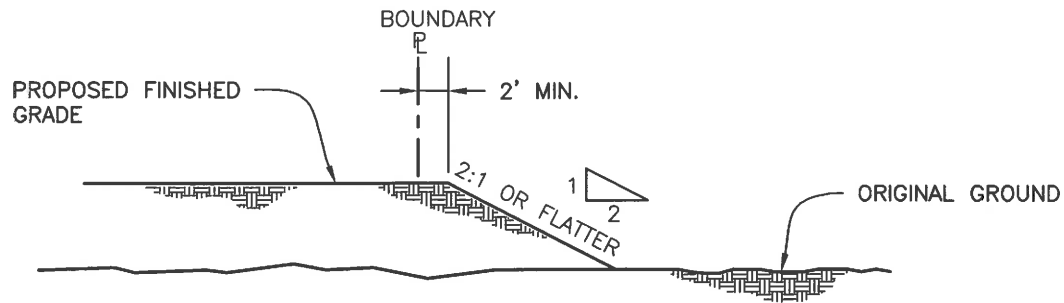
DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION

RECORD
DRAWING
SIGNATURE BLOCK

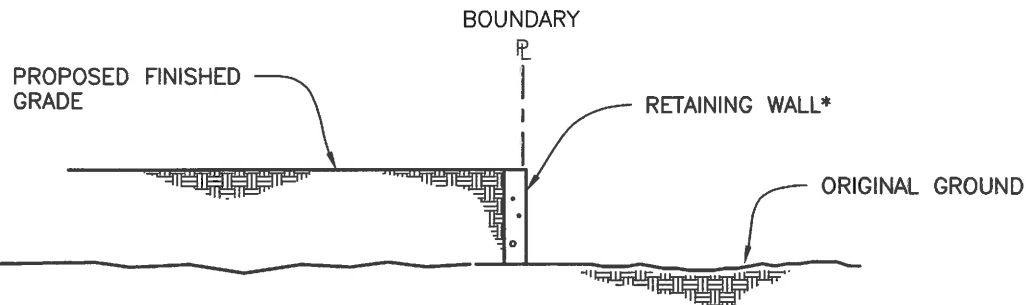
SCALE: NONE
DATE: AUGUST 2016
DRAWN BY: J. PINKHAM

DWG #
1-12

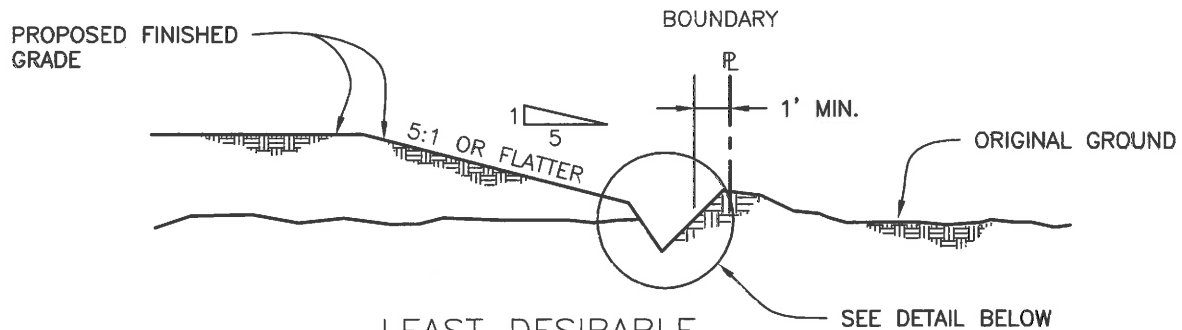


MOST DESIRABLE

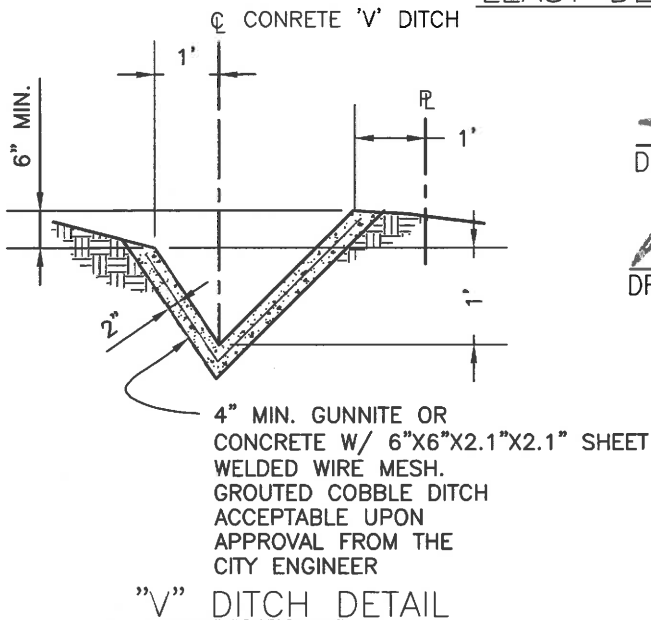
1. A NOTARIZED RIGHT OF ENTRY IS REQUIRED FROM ADJACENT PROPERTY OWNER.



* ENTIRE WALL INCLUDING FOUNDATION SHALL BE LOCATED ON PRIVATE PROPERTY AND BE CONSTRUCTED WITH CONCRETE OR MASONRY BLOCK IF 24" OR GREATER IN HEIGHT.



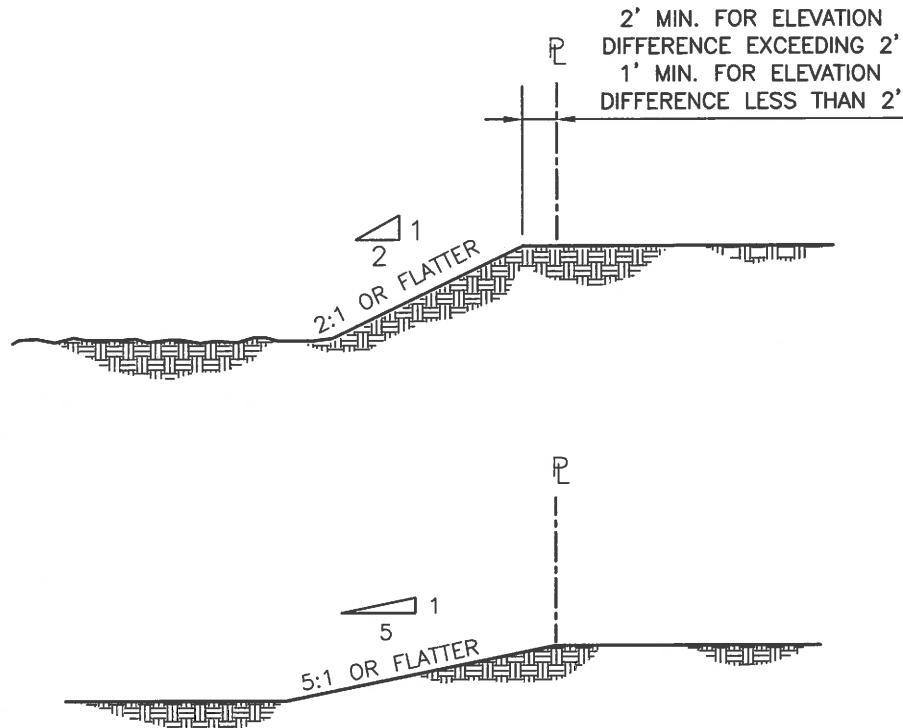
LEAST DESIRABLE



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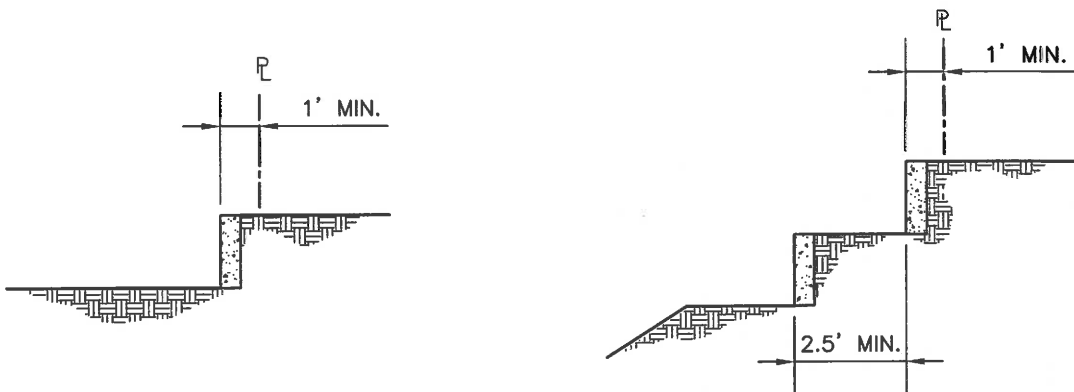
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DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
EXTERIOR PERIMETER PROPERTY LINE GRADING	
SCALE: NONE DATE: JULY 2015 DRAWN BY: J. PINKHAM	DWG # 2-1



CUT BANKS

1. A NOTARIZED RIGHT OF ENTRY IS REQUIRED FROM ADJACENT PROPERTY OWNER.



RETAINING WALLS

NOTE:

1. USE FOR CUTS ADJACENT TO BOUNDARY OR EXTERIOR PERIMETER PROPERTY LINES.
2. NO DOUBLE RETAINING WALLS TO BE CONSTRUCTED ON SIDE YARDS FOR LOTS TO BE IN CONFORMANCE TO FHA STANDARDS

[Signature]

DRAWING APPROVED – CITY ENGINEER

[Signature]

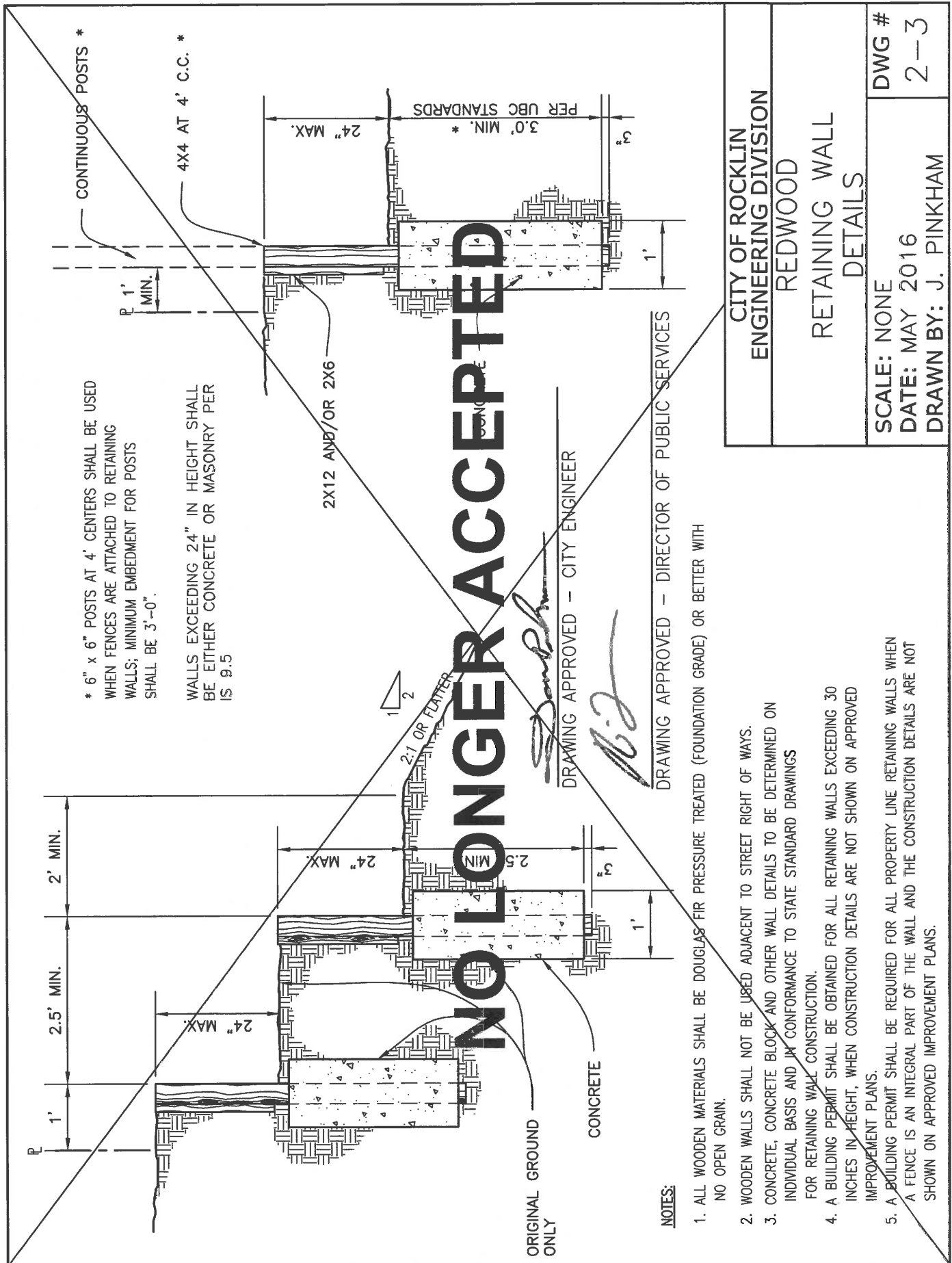
DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

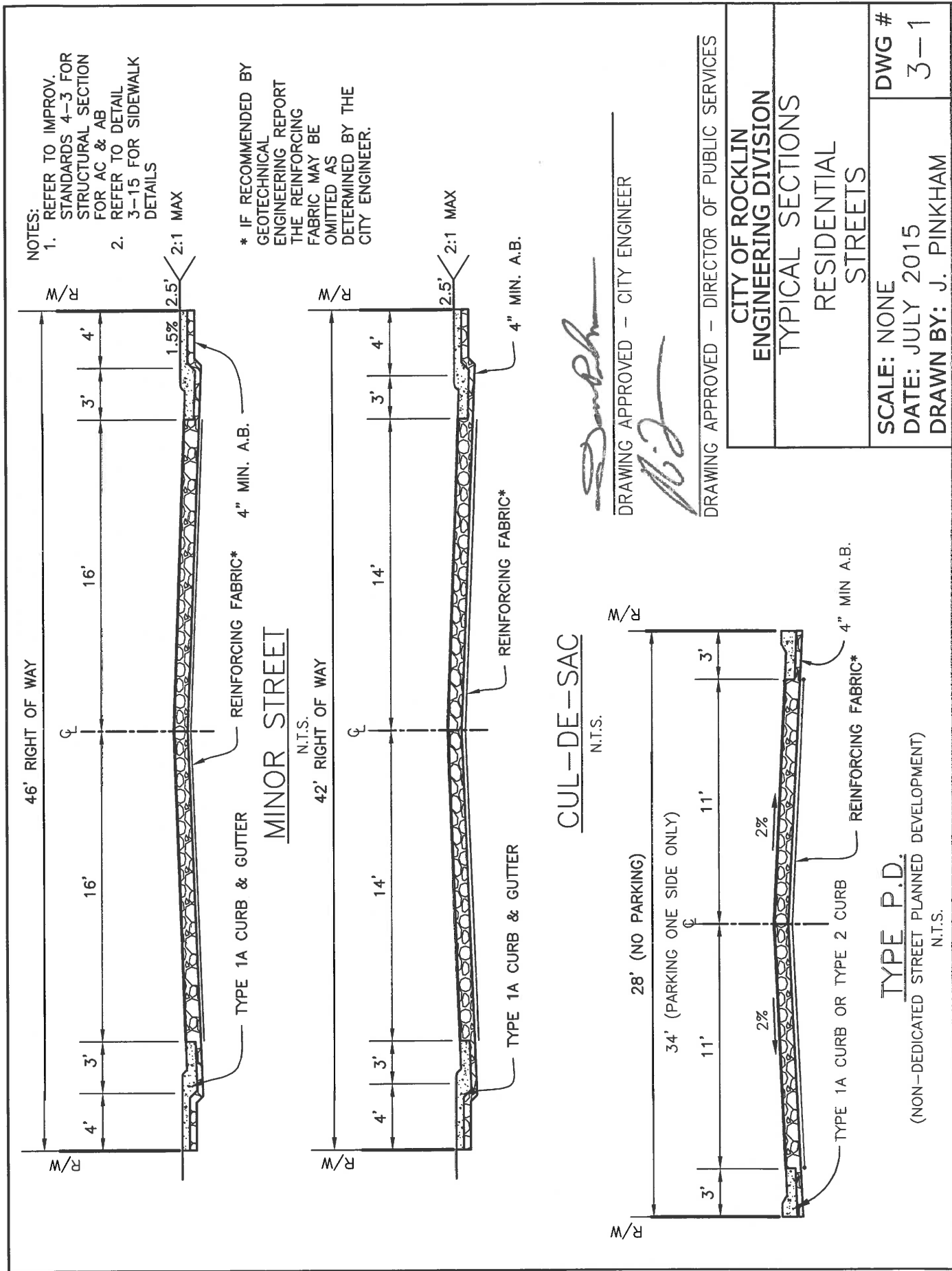
CITY OF ROCKLIN
ENGINEERING DIVISION

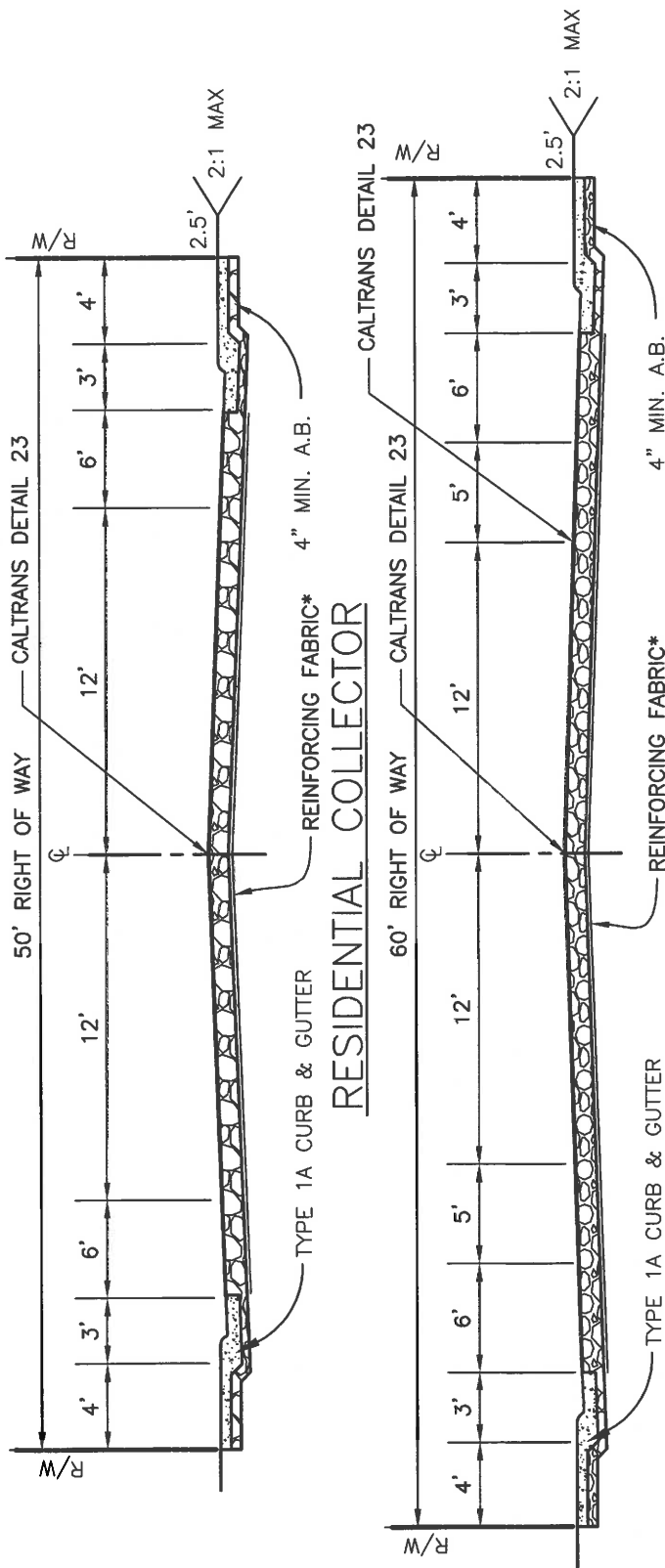
INTERIOR
PROPERTY LINE
GRADING

SCALE: NONE
DATE: JULY 2015
DRAWN BY: J. PINKHAM

DWG #
2-2







* IF RECOMMENDED BY GEOTECHNICAL ENGINEERING REPORT THE REINFORCING FABRIC MAY BE OMITTED AS DETERMINED BY THE CITY ENGINEER.

NOTES:

1. PAVEMENT SECTION TO BE AC ON AB. REFER TO SECTION I.S. 4-3 OF THE DESIGN STANDARDS FOR STREET PAVEMENT REQUIREMENTS.
2. REFER TO DETAIL 3-15 FOR SIDEWALK DETAILS.
3. ON INDUSTRIAL STREETS THE CENTER TWO WAY LEFT TURN (DETAIL 33) SHALL BE REPLACED BY A DETAIL "23" (CALTRANS) CENTERLINE STRIPING AND TURN LANES AS MAY BE REQUIRED. NO BIKE LANES ARE REQUIRED.
4. CURB AND GUTTER SHALL BE "TYPE 2" (3-15) AND SIDEWALK TO HAVE 6" THICK CONCRETE WITH 6" COMPACTED AGGREGATE BASE.
5. STRIPING DETAIL NUMBERS REFERENCE CALTRANS STANDARDS
6. P.U.E./T.C.E. - PUBLIC UTILITY EASEMENT / TRAFFIC CONTROL EASEMENT.
7. "NO PARKING" (R-26) SIGNS SHALL BE PLACED ON STREET LIGHT POLES WHERE BIKE LANES EXIST OR AS DIRECTED BY CITY ENGINEER.
8. SIGN DETAIL NUMBERS REFERENCE 2012 MUTCD
9. IN CERTAIN INSTANCES, WITH THE RECOMMENDATION OF THE PUBLIC WORKS DIRECTOR, AND APPROVAL OF CITY COUNCIL, THIS ROADWAY STANDARD MAY BE MODIFIED WITH THE DEMONSTRATION THAT "BLUEPRINT" GOALS AND OBJECTIVES OF A WALKABLE COMMUNITY ARE BEING ACHIEVED WITHIN A COMMUNITY PLAN.

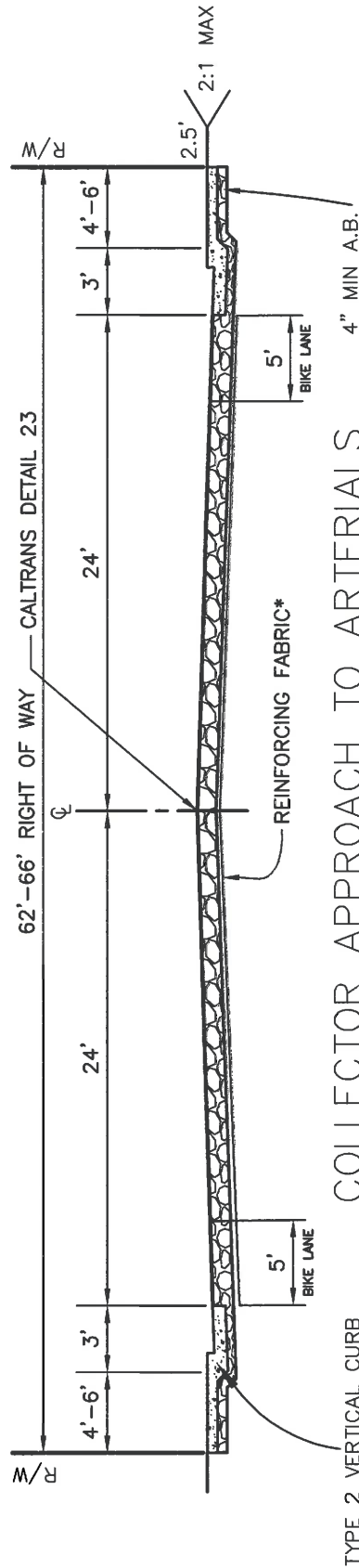
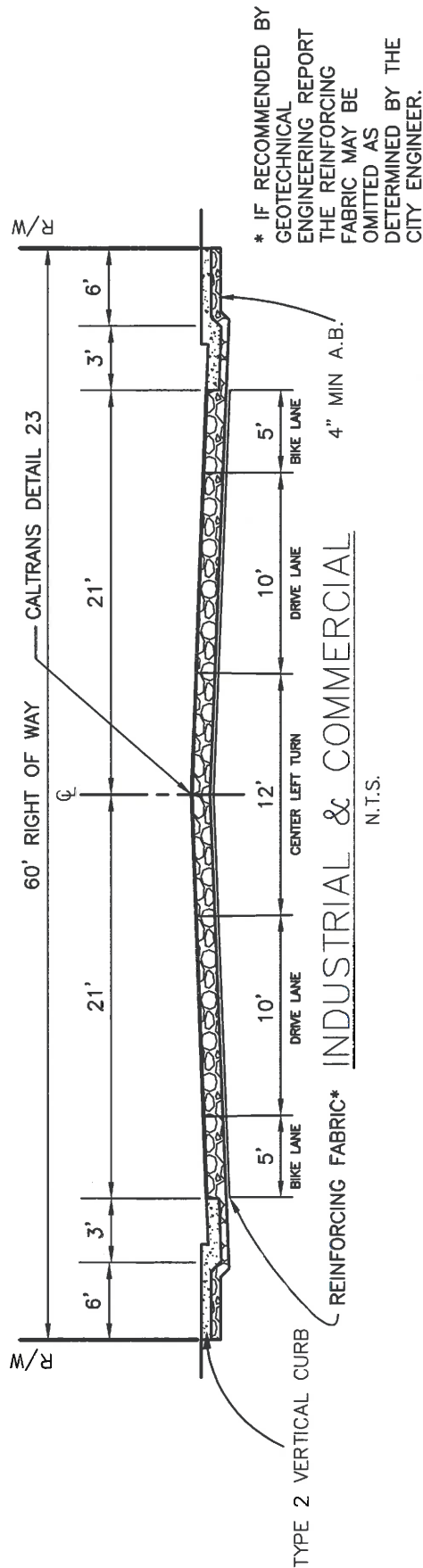
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CITY OF ROCKLIN ENGINEERING DIVISION	
TYPICAL SECTIONS	
RESIDENTIAL COLLECTOR STREETS	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	3-2
DRAWN BY: J. PINKHAM	



COLLECTOR APPROACH TO ARTERIALS

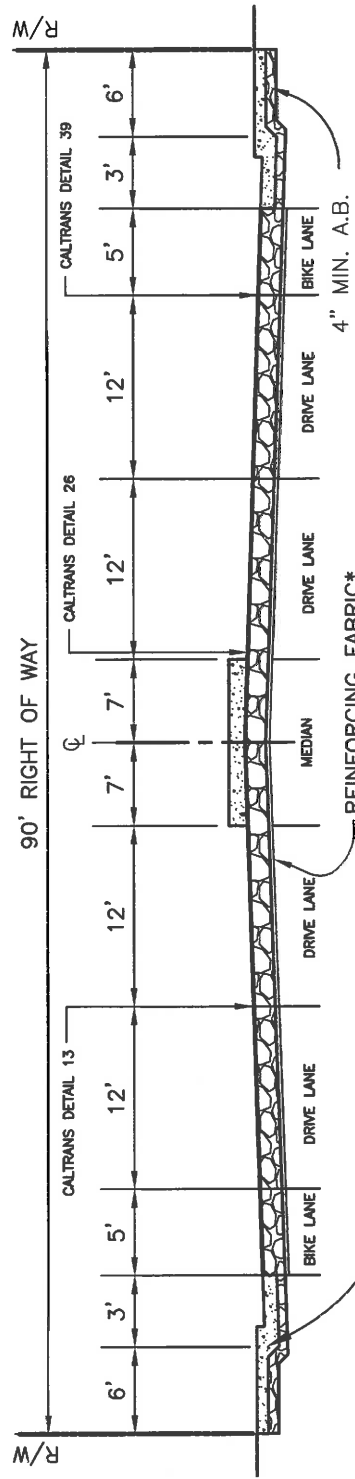
(NO PARKING)
N.T.S.

NOTE:
SIDEWALKS MAY BE 4 FEET WIDE IN SINGLE FAMILY
AND DUPLEX RESIDENTIAL AREAS ONLY.

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DRAWING APPROVED — DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
TYPICAL SECTIONS—INDUSTRIAL & COMMERCIAL / COLLECTOR APPROACH TO ARTERIALS	
SCALE: NONE	DWG #
DATE: 05/10/16	3-3
DRAWN BY: J.PINKHAM	



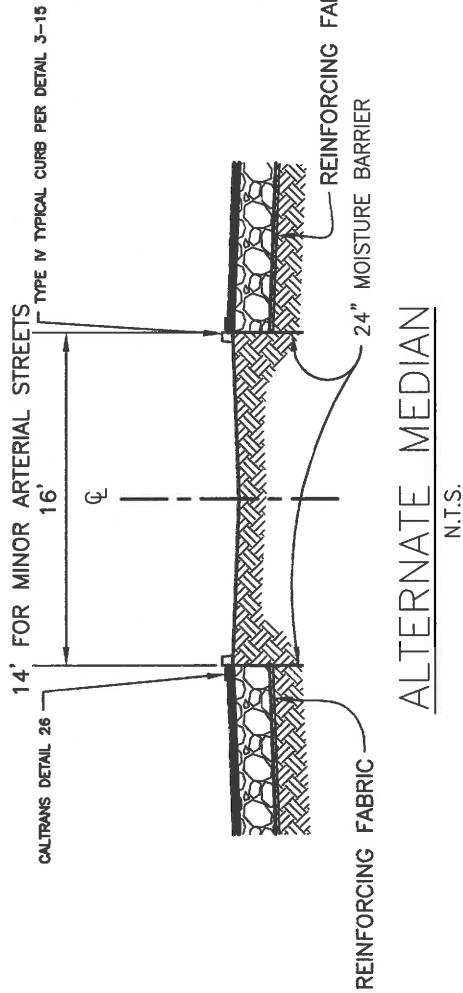
* IF RECOMMENDED BY
GEOTECHNICAL
ENGINEERING REPORT
THE REINFORCING
FABRIC MAY BE
OMITTED AS
DETERMINED BY THE
CITY ENGINEER.

MINOR ARTERIAL
(WITH BIKE LANES AND MEDIAN)
N.T.S.

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CITY OF ROCKLIN ENGINEERING DIVISION	
TYPICAL SECTIONS MINOR ARTERIAL STREETS	
SCALE: NONE DATE: JULY 2015 DRAWN BY: J. PINKHAM	DWG # 3-4

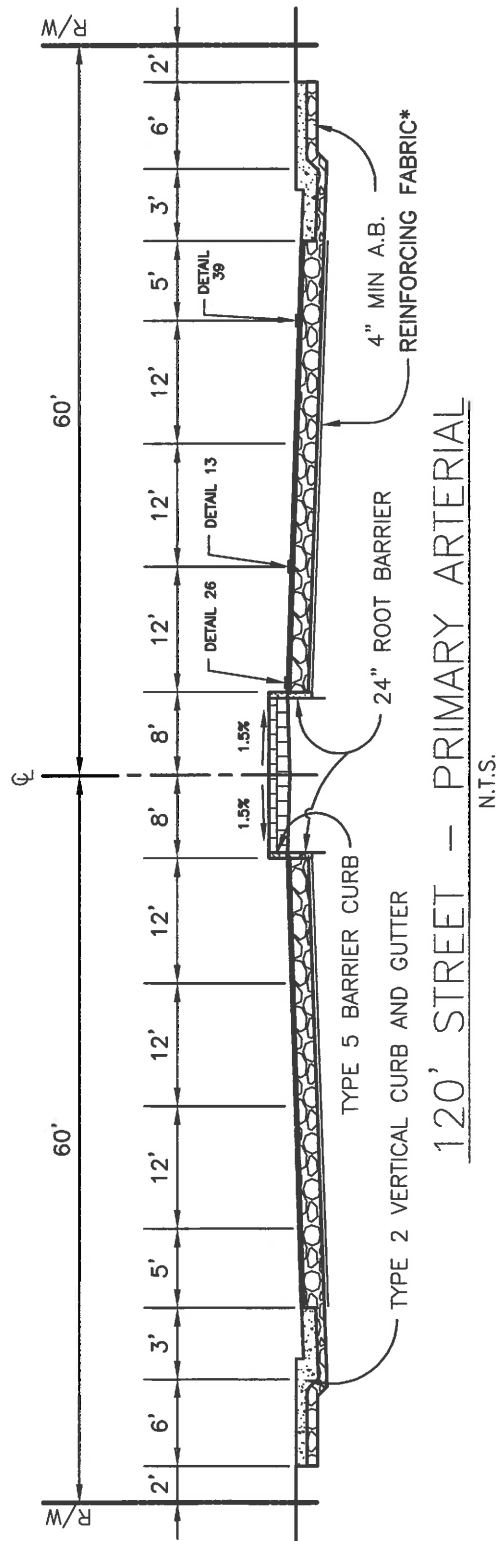


* IF RECOMMENDED BY
GEOTECHNICAL
ENGINEERING REPORT
THE REINFORCING
FABRIC MAY BE
OMITTED AS
DETERMINED BY THE
CITY ENGINEER.

ALTERNATE MEDIAN

N.T.S.

SEE IS 4-3 FOR STRUCTURAL STREET SECTION



120' STREET - PRIMARY ARTERIAL

N.T.S.

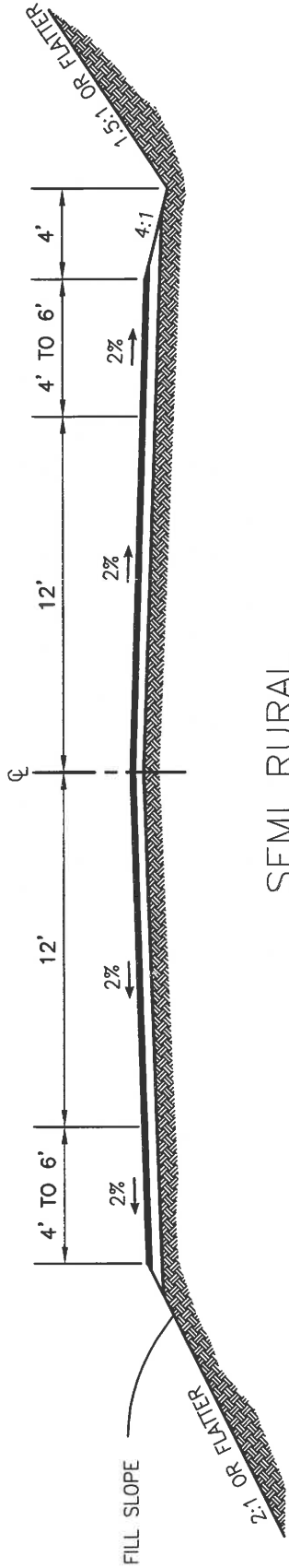
CITY OF ROCKLIN ENGINEERING DIVISION TYPICAL SECTIONS PRIMARY ARTERIAL STREETS

SCALE: NONE	DWG #
DATE: DECEMBER 2015	3-5
DRAWN BY: J. PINKHAM	

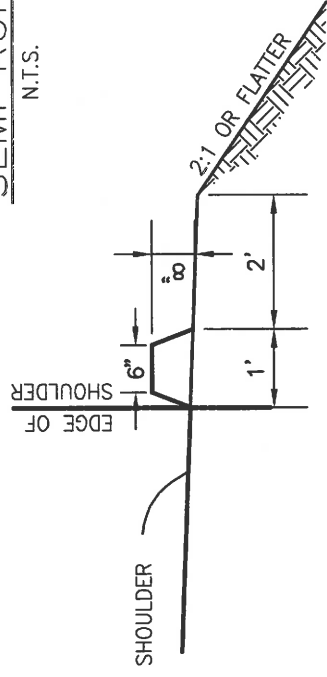

DRAWING APPROVED – CITY ENGINEER

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REFER TO IS 4-3 SPECIFICATIONS FOR
STRUCTURAL SECTION OF AB AND AC



SEMI RURAL
N.T.S.

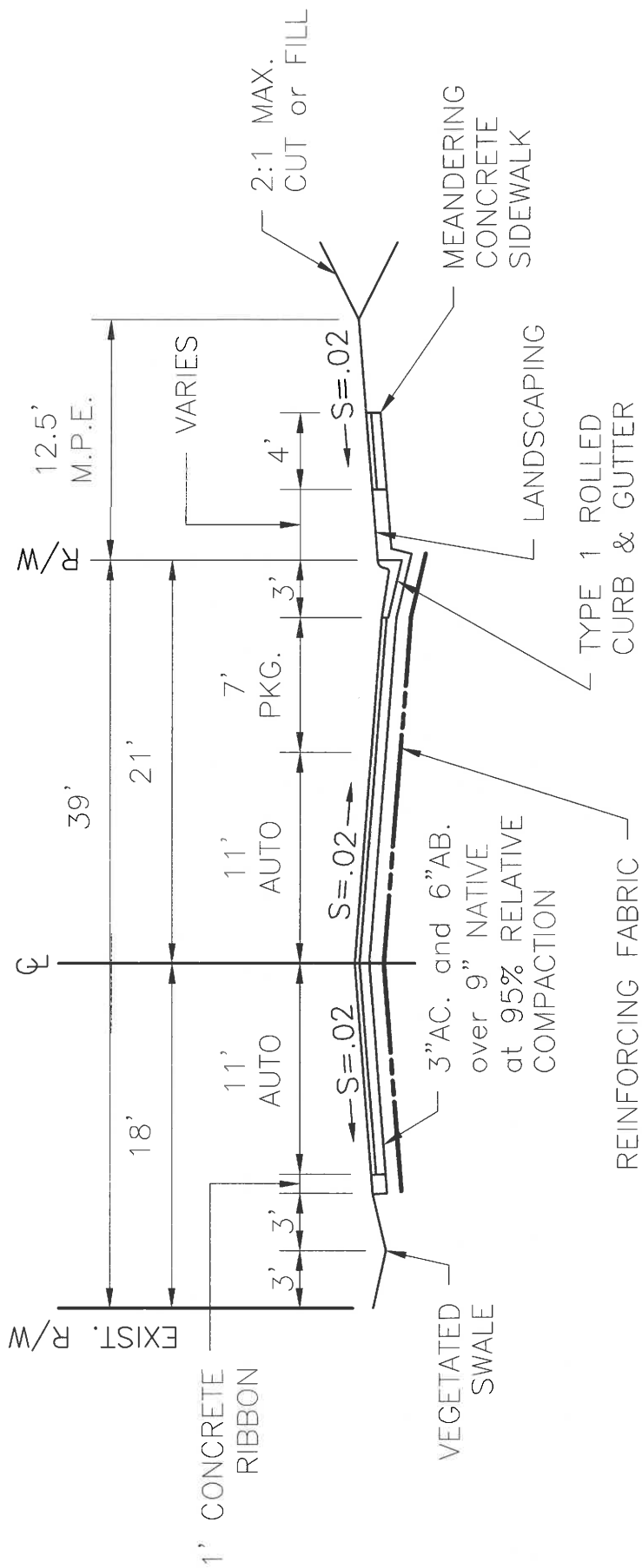


SHOULDER WIDENING
WITH A.C. DIKE
N.T.S.

CITY OF ROCKLIN ENGINEERING DIVISION	SCALE: NONE DATE: MAY 2016 DRAWN BY: J.PINKHAM	DWG # 3-6A
TYPICAL SECTIONS SEMI RURAL		


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CITY OF ROCKLIN
ENGINEERING DIVISION

IMPROVED STREET
WITH VEGETATED
SWALE

SCALE: NONE
DATE: MAY 2016
DRAWN BY: J.PINKHAM

DWG #
3-6B

[Signature]

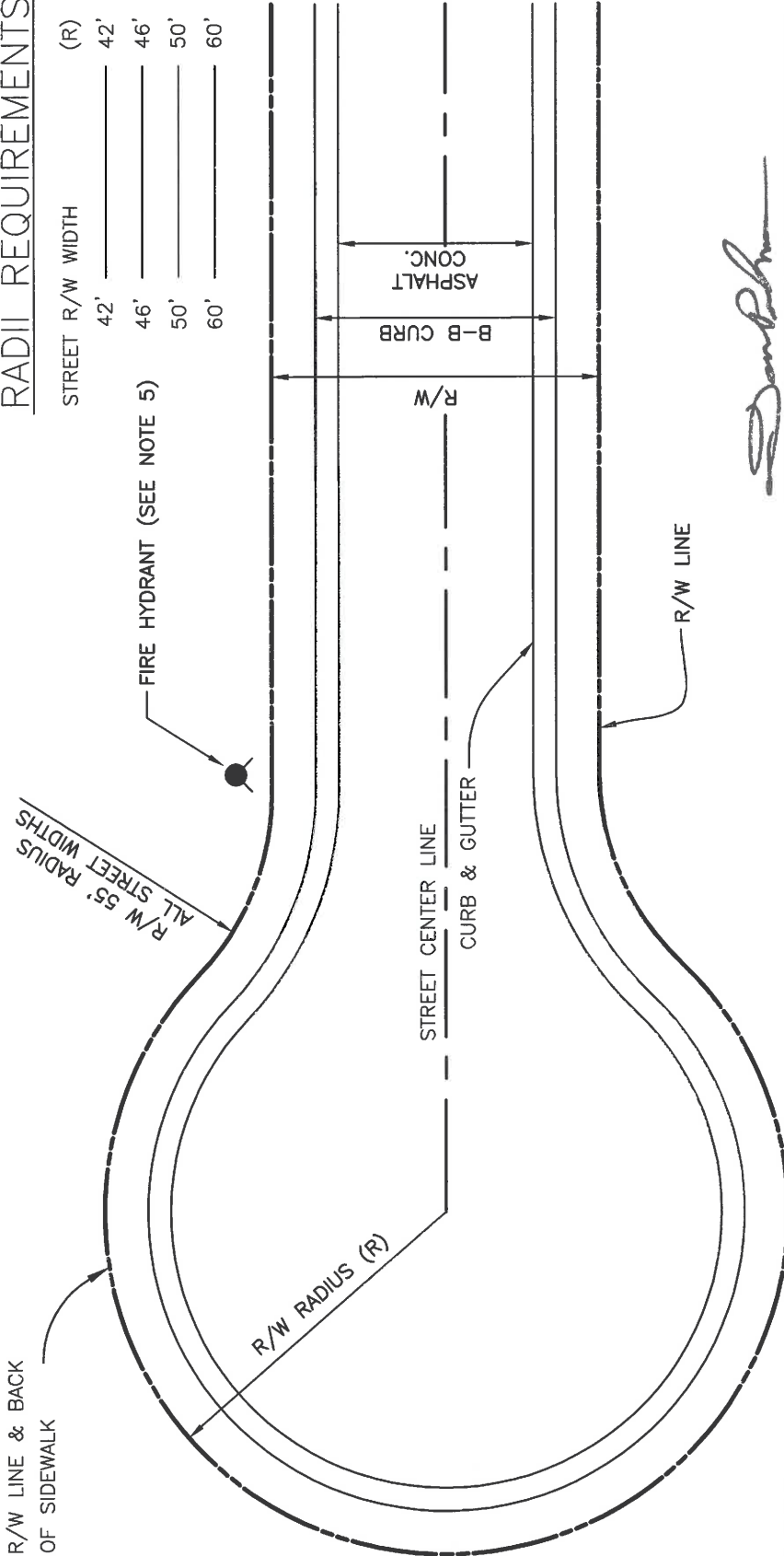
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DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

RADI REQUIREMENTS:

STREET R/W WIDTH	(R)
42'	42'
46'	46'
50'	50'
60'	60'



NOTES:

1. A STANDARD CODE W53 (NOT A THROUGH STREET) SIGN IS TO BE POSTED AT THE ENTRANCE TO ALL CUL-DE-SACS SERVING MORE THAN TWELVE RESIDENCES. SEE CALTRANS W-53
2. A STANDARD CODE W53 (NOT A THROUGH STREET) SIGN IS TO BE INSTALLED AT THE ENTRANCE OF A CUL-DE-SAC WHEN THE CUL-DE-SAC IS AT THE PROLONGATION OF EITHER A STREET, DRIVE OR WAY.
3. A STANDARD CODE W53 (NOT A THROUGH STREET) SIGN IS TO BE INSTALLED AT THE ENTRANCE OF A CUL-DE-SAC WHEN THE CUL-DE-SAC HAS A CURVILINEAR ALIGNMENT AND OBSTRUCTED TERMINUS, REGARDLESS OF LENGTH.
4. A STANDARD CODE W53 (NOT A THROUGH STREET) SIGN IS TO BE INSTALLED AT THE ENTRANCE OF A CUL-DE-SAC WHEN THE LENGTH OF THE CUL-DE-SAC EXCEEDS 600 FEET. LENGTH OF CUL-DE-SAC STREETS SHALL BE MEASURED FROM CENTER OF BULB TO CENTERLINE OF EXISTING STREET.
5. ALL CUL-DE-SACS IN EXCESS OF 200' SHALL HAVE A FIRE HYDRANT INSTALLED AT THE BULB. SUBJECT TO THE APPROVAL OF THE FIRE DEPARTMENT.

DRAWING APPROVED - CITY ENGINEER

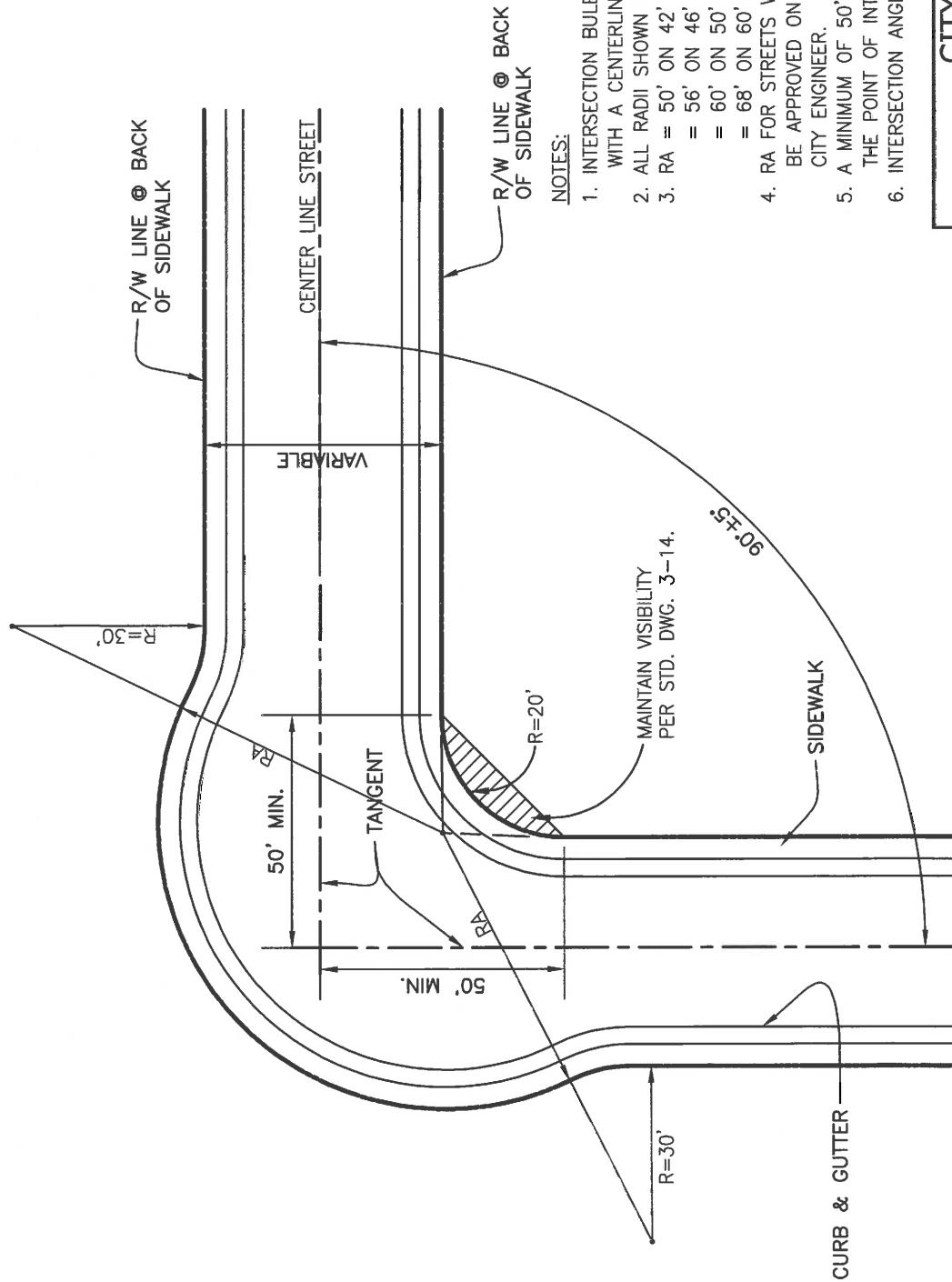
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DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION

CUL-DE-SAC

SCALE: NONE	DWG #
DATE: MARCH 2006	3-7
DRAWN BY: J. PINKHAM	



NOTES:

1. INTERSECTION BULBS ARE NOT REQUIRED ON STREETS WITH A CENTERLINE RADIUS OF 200' OR MORE.
2. ALL RADII SHOWN PERTAIN TO R/W LINES
3. RA = 50' ON 42' STREETS
= 56' ON 46' STREETS
= 60' ON 50' STREETS
= 68' ON 60' STREETS
4. RA FOR STREETS W/ R/W GREATER THAN 60' SHALL BE APPROVED ON A CASE BY CASE BASIS BY THE CITY ENGINEER.
5. A MINIMUM OF 50' OF TANGENT IS REQUIRED FROM THE POINT OF INTERSECTION OF THE CENTERLINES.
6. INTERSECTION ANGLE SHALL BE $90^\circ \pm 5'$

**CITY OF ROCKLIN
ENGINEERING DIVISION**

90° INTERSECTION ELBOW

SCALE: NONE	DWG #
DATE: MARCH 2006	3-8
DRAWN BY: J. PINKHAM	

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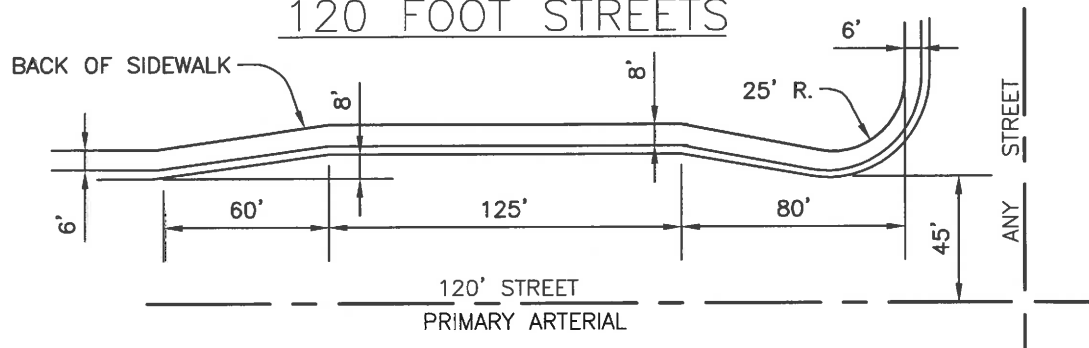
DRAWING APPROVED - CITY ENGINEER

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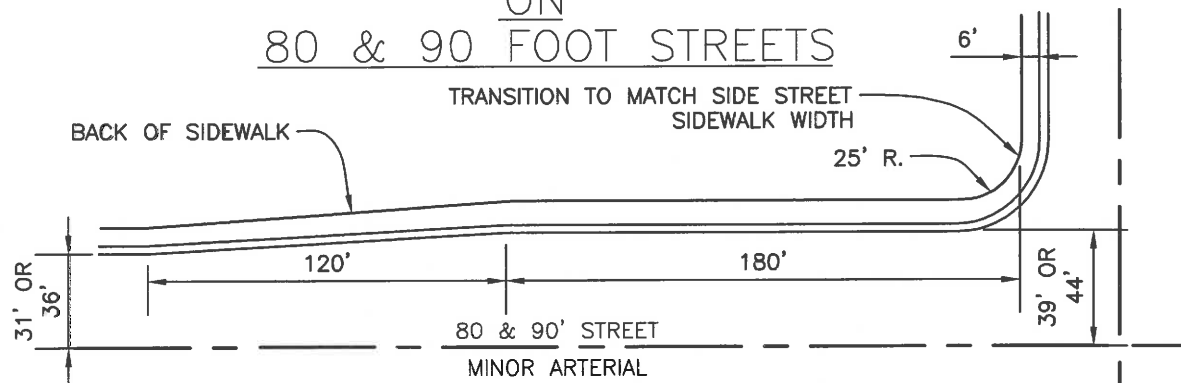
DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES



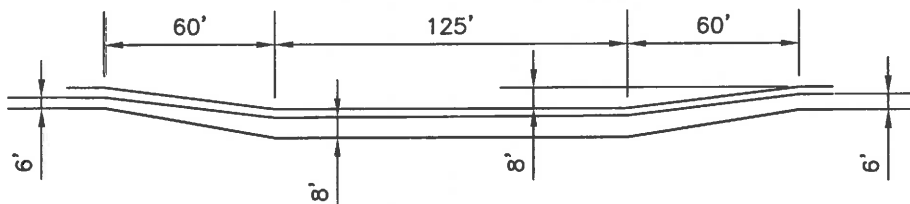
BUS TURNOUT
ON
120 FOOT STREETS



BUS TURNOUT
ON
80 & 90 FOOT STREETS



TYPICAL MID-BLOCK BUS TURNOUT



NOTE:
BUS STOPS AT INTERSECTIONS OF 80' STREETS
WITH 80'/90'/120' CROSS STREETS ARE PROVIDED
FOR BY STANDARD INTERSECTION WIDENING.

DRAWING APPROVED - CITY ENGINEER

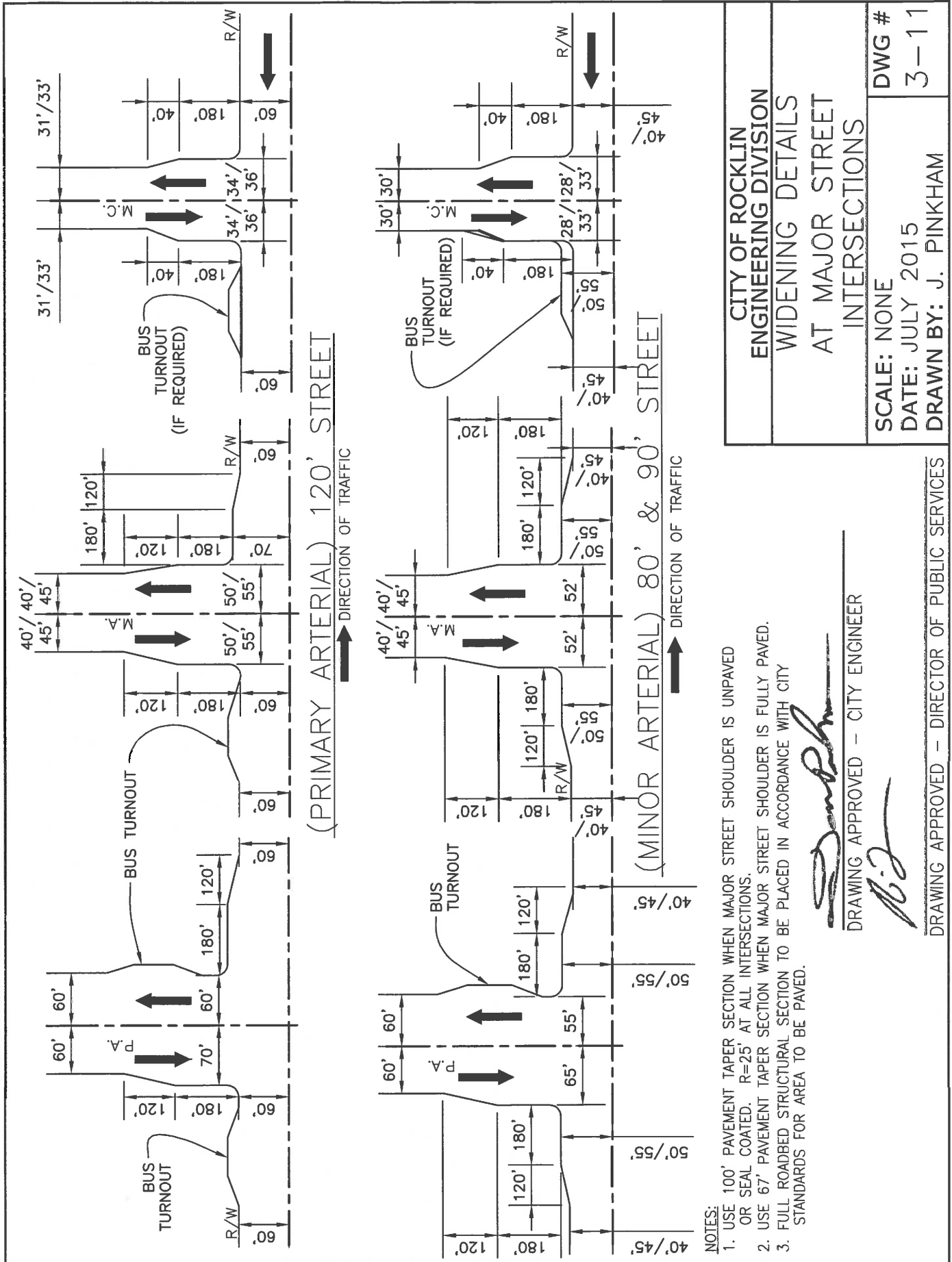
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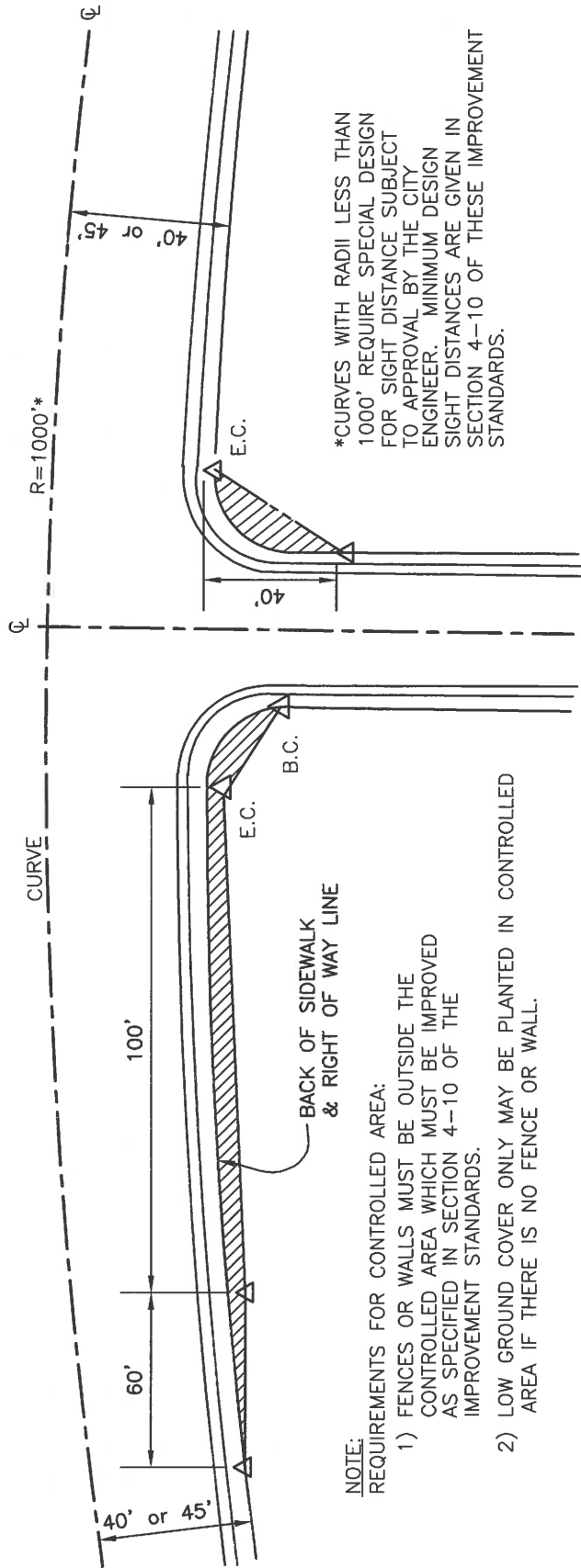
CITY OF ROCKLIN
ENGINEERING DIVISION

BUS TURNOUT

SCALE: NONE
DATE: JULY 2015
DRAWN BY: J. PINKHAM

DWG #	3-10
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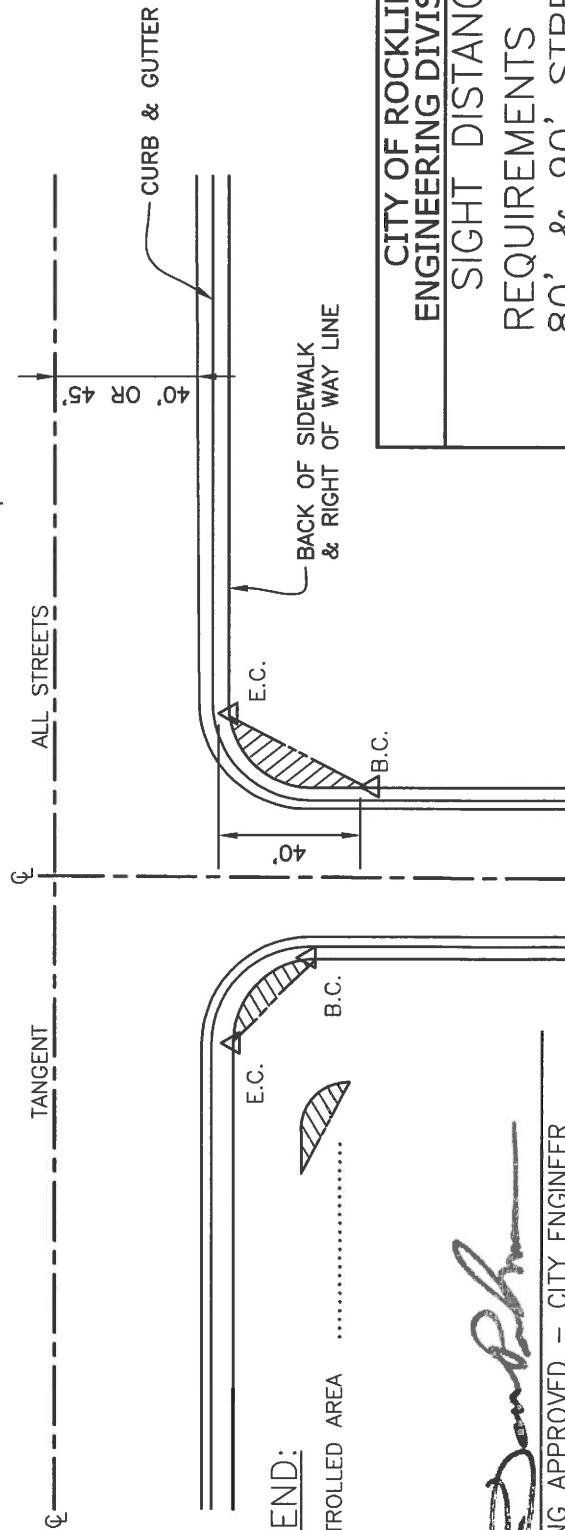




*CURVES WITH RADII LESS THAN 1000' REQUIRE SPECIAL DESIGN FOR SIGHT DISTANCE SUBJECT TO APPROVAL BY THE CITY ENGINEER. MINIMUM DESIGN SIGHT DISTANCES ARE GIVEN IN SECTION 4-10 OF THESE IMPROVEMENT STANDARDS.


NOTE:
REQUIREMENTS FOR CONTROLLED AREA:

- 1) FENCES OR WALLS MUST BE OUTSIDE THE CONTROLLED AREA WHICH MUST BE IMPROVED AS SPECIFIED IN SECTION 4-10 OF THE IMPROVEMENT STANDARDS.
- 2) LOW GROUND COVER ONLY MAY BE PLANTED IN AREA IF THERE IS NO FENCE OR WALL.



LEGEND:

CONTROLLED AREA

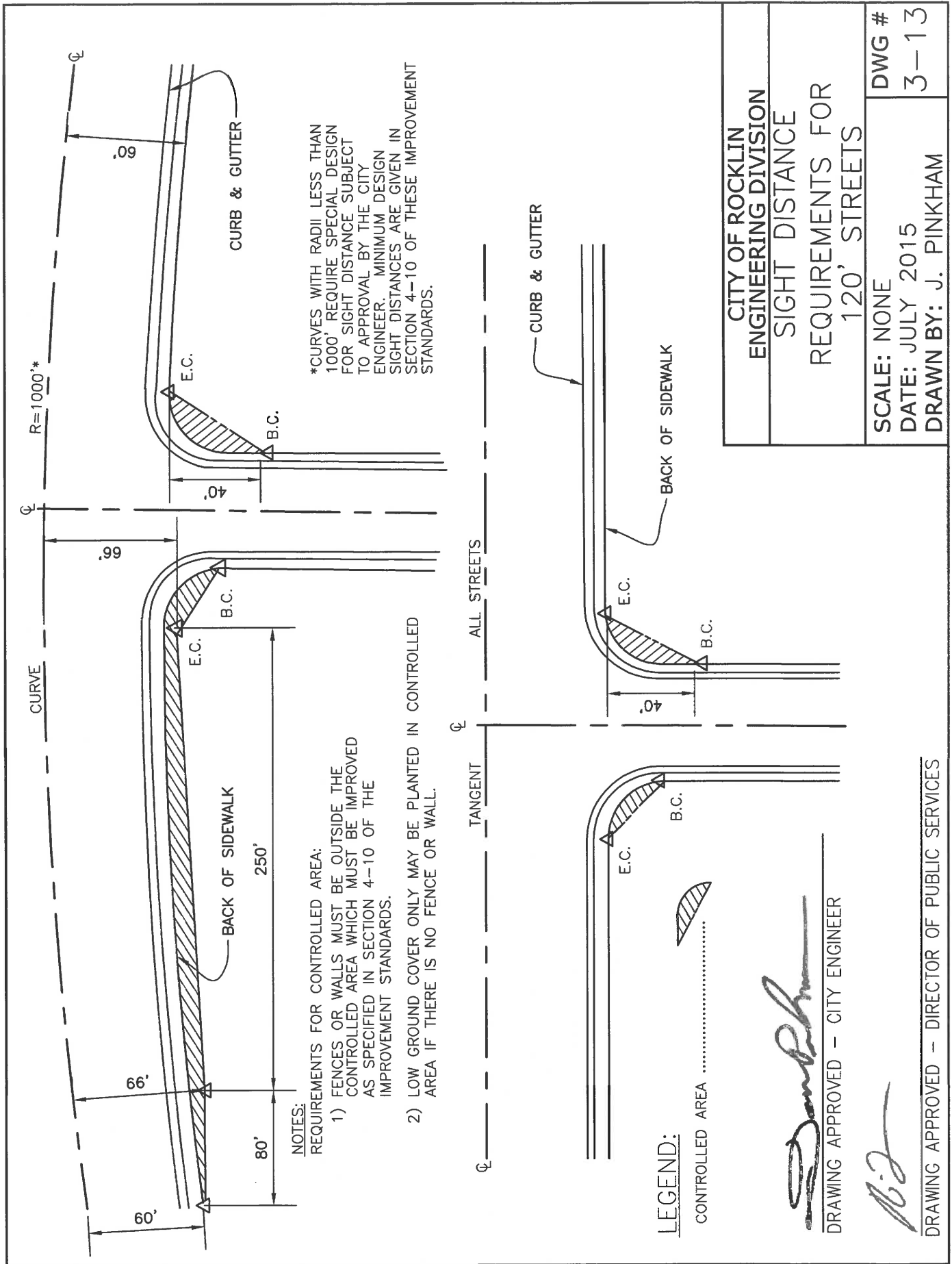

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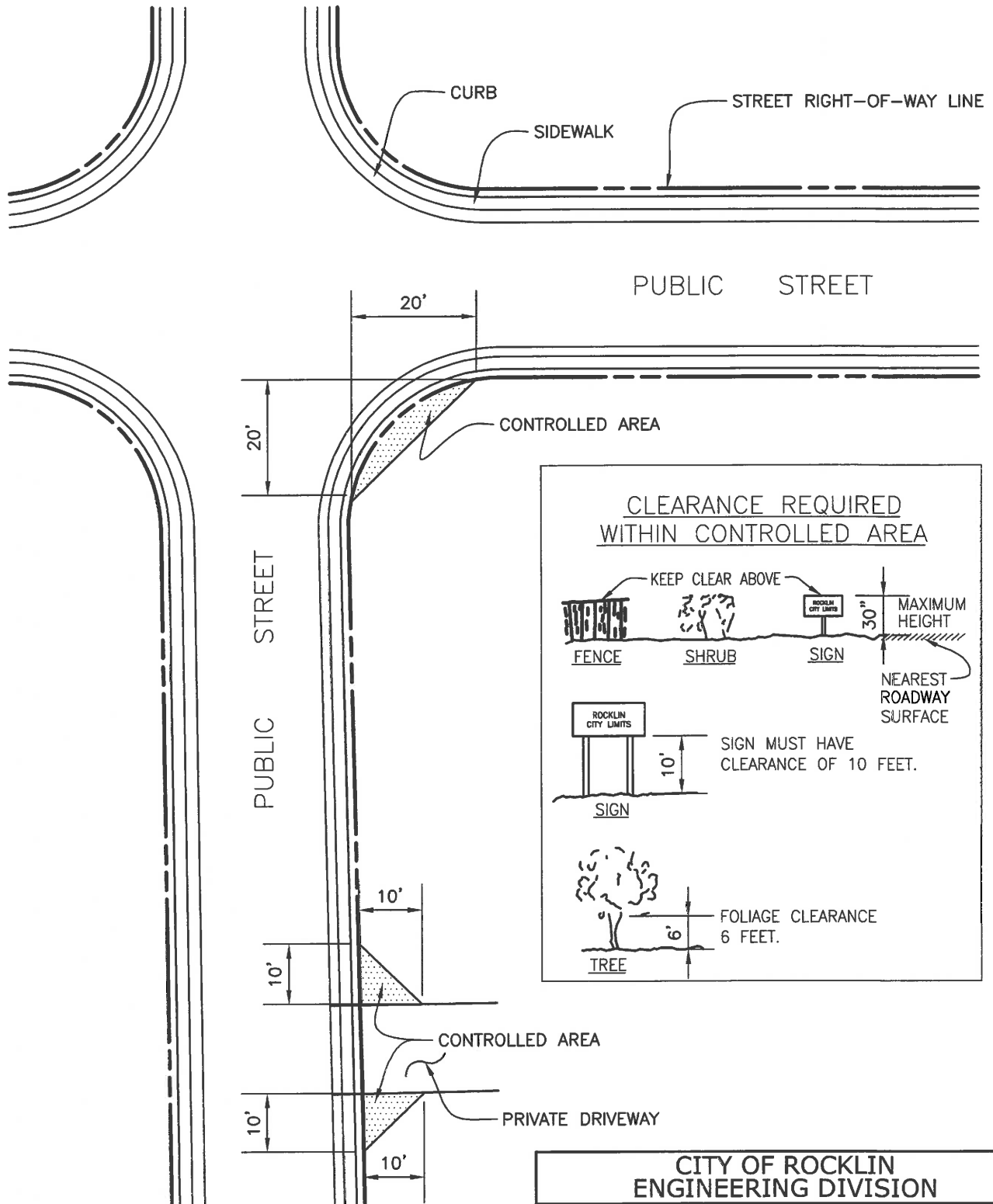
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CITY OF ROCKLIN
ENGINEERING DIVISION
SIGHT DISTANCE
REQUIREMENTS FOR
80' & 90' STREETS

SCALE: NONE	DWG #
DATE: JULY 2015	3-12
DRAWN BY: J. PINKHAM	





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[Signature]

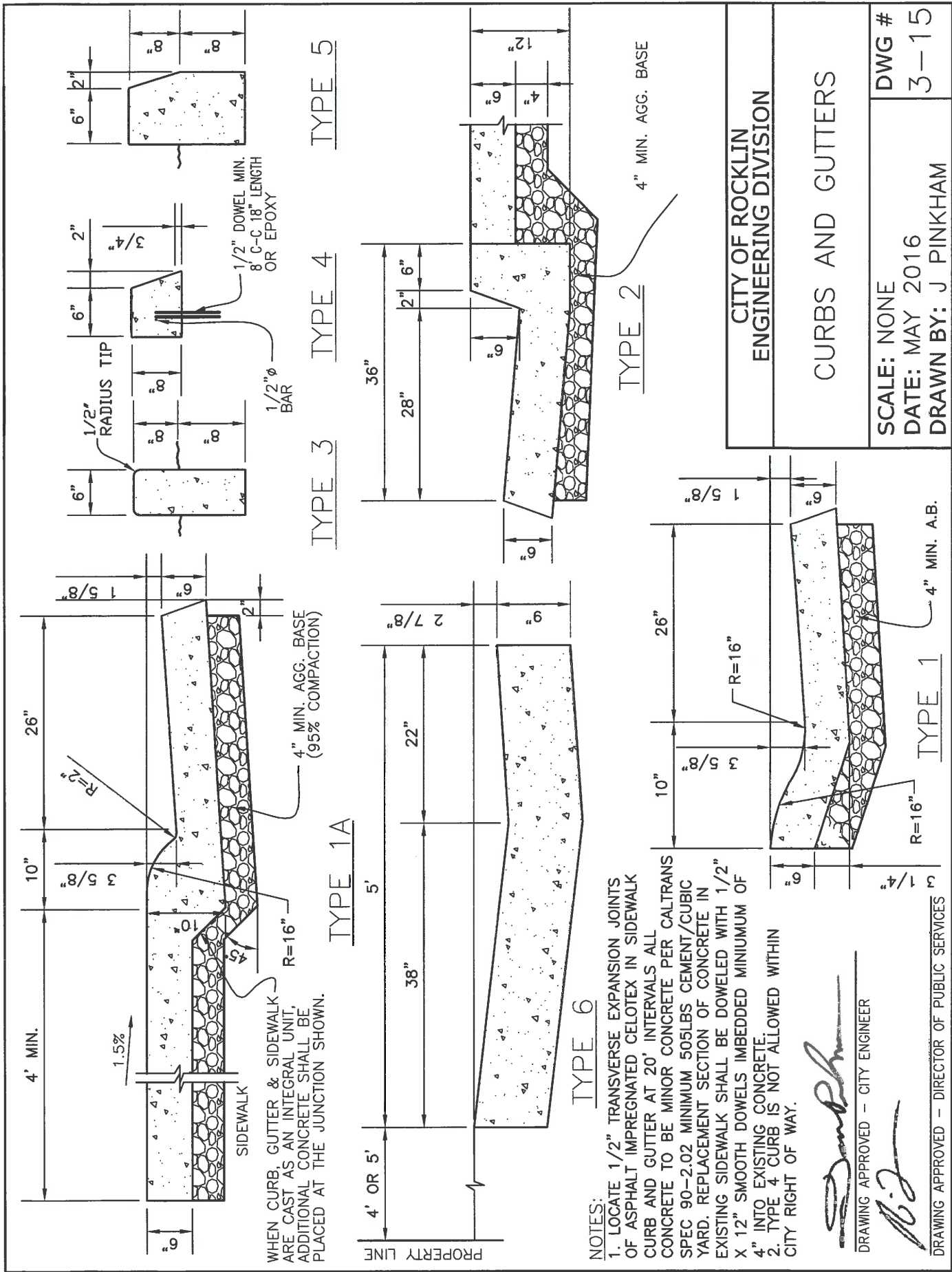
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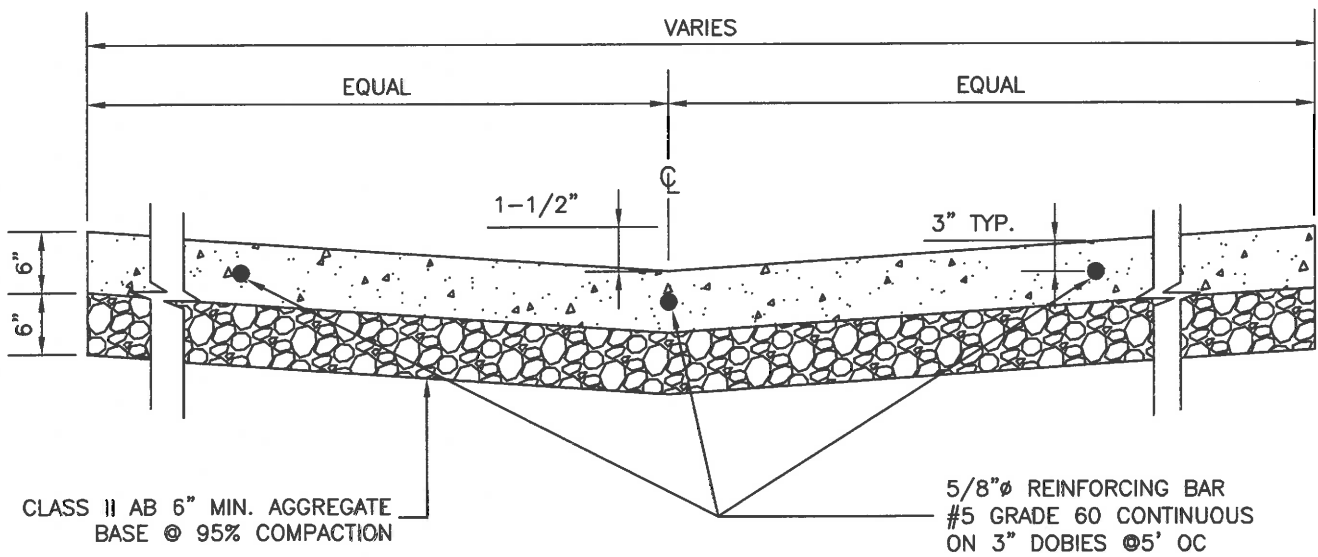
**CITY OF ROCKLIN
ENGINEERING DIVISION**

VISIBILITY REQUIREMENTS

SCALE: NONE
DATE: JULY 2015
DRAWN BY: J. PINKHAM

DWG #
3-14

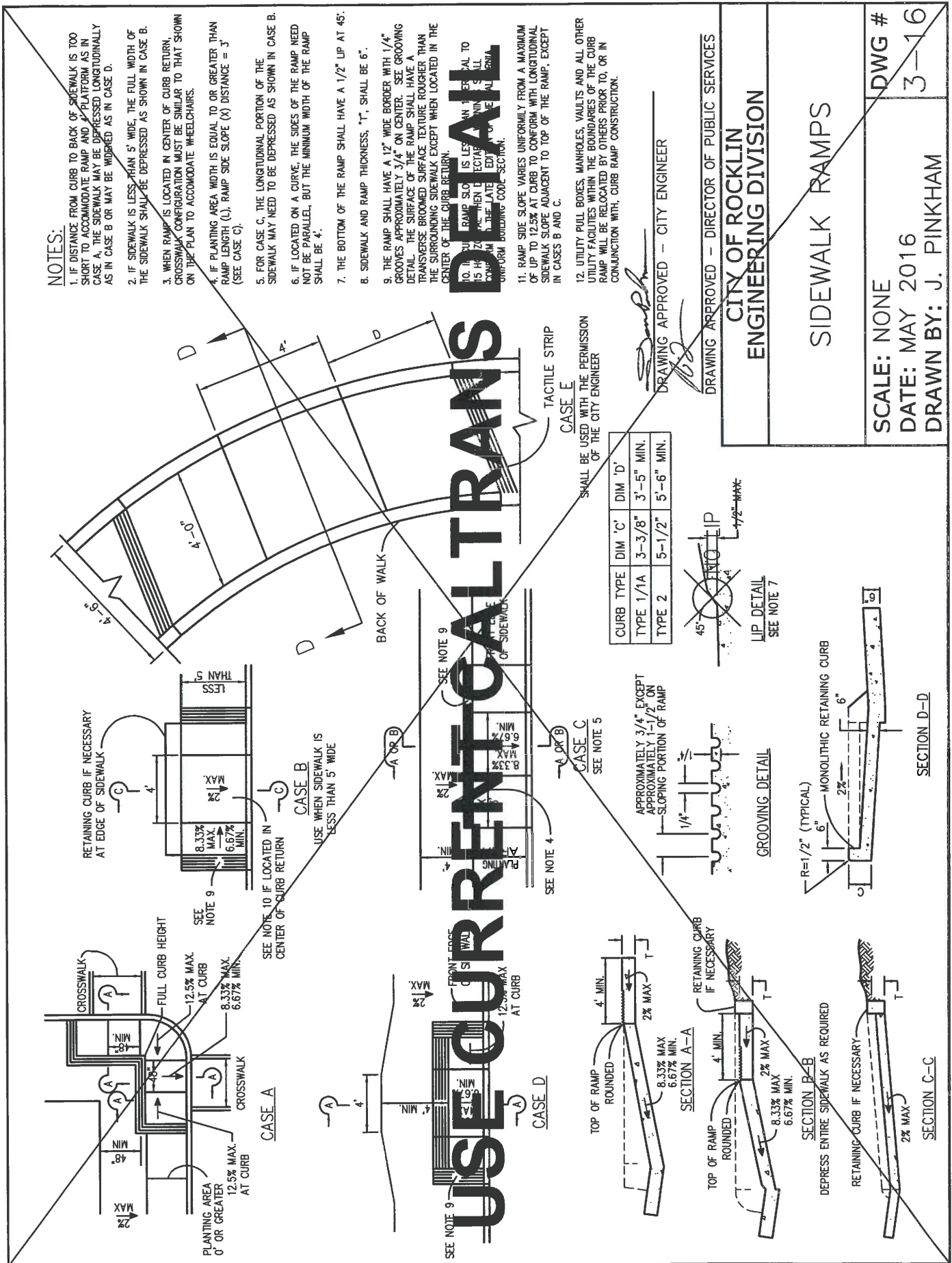


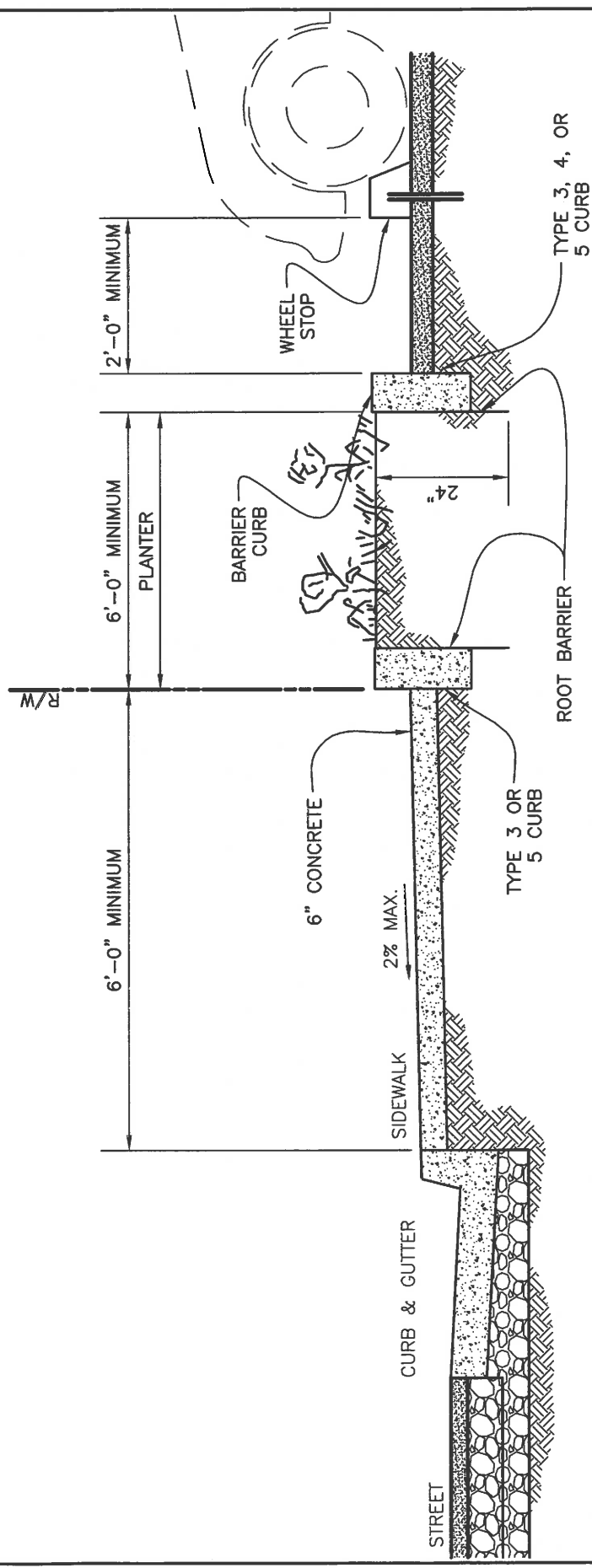


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DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
VALLEY GUTTER	
SCALE: NONE DATE: MAY 2016 DRAWN BY: J. PINKHAM	DWG # 3-15A







MINOR ARTERIAL, PRIMARY ARTERIAL, INDUSTRIAL
AND COMMERCIAL DEVELOPMENT

NOTES:

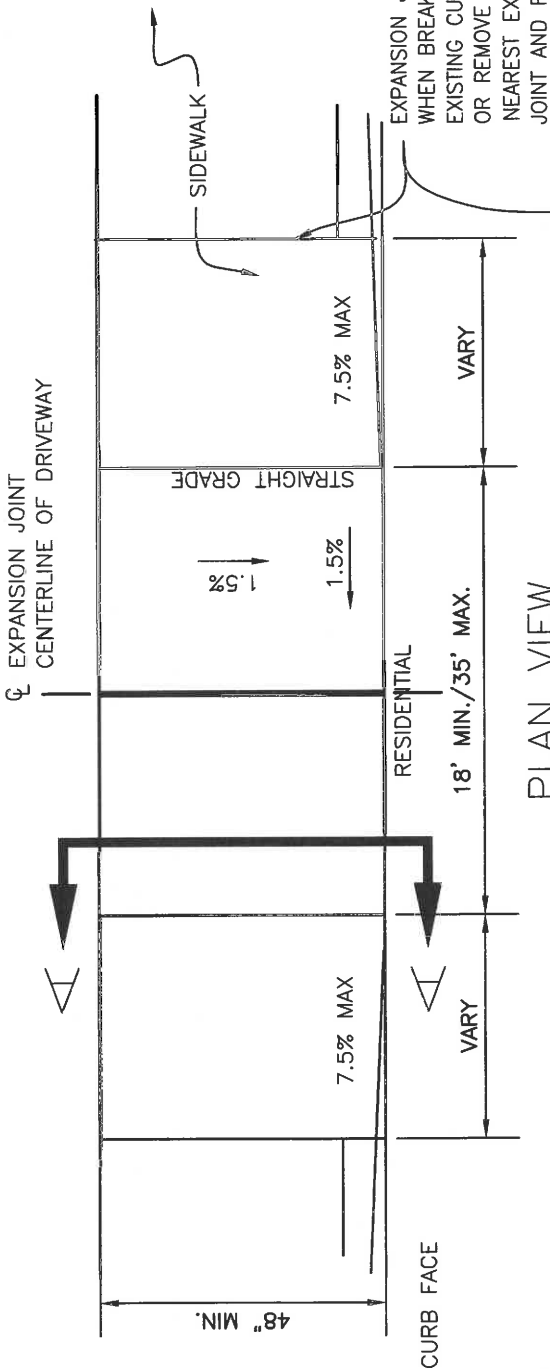
1. WHEEL STOPS ARE OPTIONAL IF REQUIRED PLANTER WIDTH IS INCREASED 2'-6" OR MORE.
2. BACK OF SIDEWALK PLANTER CURBS ONLY IF LOW GROUND COVER IS PLANTED TO BACK OF SIDEWALK, AND CONTINUOUS BARRIER CURB IS PLACED AT LOCATION SHOWN.


DRAWING APPROVED - CITY ENGINEER

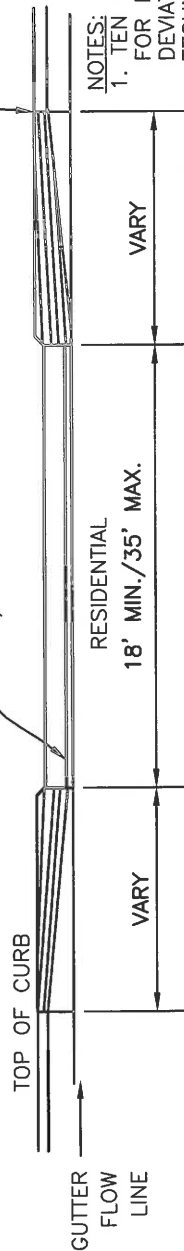

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
PLANTER AND BARRIER CURB DETAILS	
SCALE: NONE DATE: AUGUST 2015 DRAWN BY: J. PINKHAM	DWG # 3-17

NOTE: DRIVEWAY TO BE USED ONLY WHERE THERE IS EXISTING VERTICAL CURB.



1/2" HIGH LIP



NOTES:

1. TEN PERCENT (10%) MAXIMUM SLOPE FOR RESIDENTIAL USES. FIVE PERCENT (5%) DEVIATION ALLOWED WITH SPECIAL CONSTRUCTION TECHNIQUES IF APPROVED BY THE CITY ENGINEER.

2. MAXIMUM RISE, AND THE RUN, SHALL BE MEASURED FOR THE WORST CONDITION BETWEEN THE BACK OF THE SIDEWALK AND THE FINISHED FLOOR, AT THE GARAGE OR CARPORT ENTRANCE.

6" P.C.C. RESIDENTIAL DRIVEWAY

1/2" HIGH LIP

DEPRESS SLAB AT BACK OF SIDEWALK AS NECESSARY TO ACHIEVE A 1.5% SLOPE ON WALK.

4" A.B.

SECTION A-A

CITY OF ROCKLIN
ENGINEERING DIVISION

RESIDENTIAL
STANDARD
DRIVEWAY

SCALE: NONE

DATE: AUGUST 2015

DRAWN BY: J. PINKHAM

DWG #

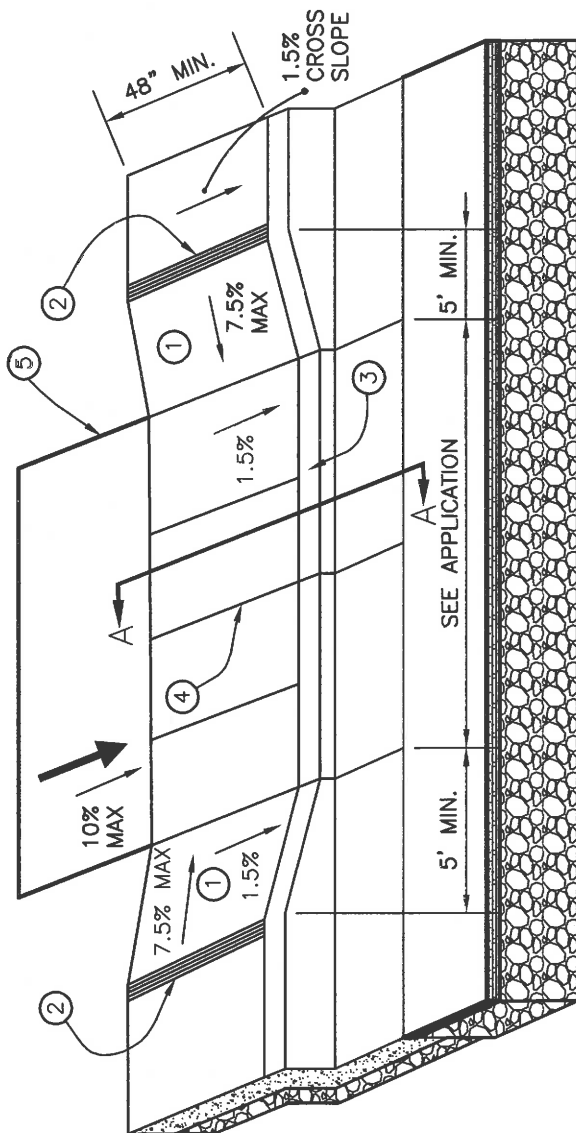
3-18

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APPLICATION	MIN WIDTH	MAX WIDTH
LOTS WITH SIX (6) OR LESS SPACES SERVING RESIDENTIAL USES, EXISTING STRUCTURES CONVERTED TO OFFICE USE, AND NEWLY CONSTRUCTED OFFICES (IF ACCESS IS LESS THAN 150' FROM STREET).	15'	20'
LOTS WITH SIX (6) OR LESS SPACES SERVING COMMERCIAL AND INDUSTRIAL USES AND WHERE ANY BUILDING TO BE SERVED IS MORE THAN 150' FROM THE STREET R/W.	25'	35'
LOTS WITH MORE THAN SIX (6) SPACES, BUT LESS THAN 20 SPACES AND WITH SEPARATE ENTRANCES AND EXITS (ONE WAY DRIVEWAYS)	25'	35'
LOTS WITH MORE THAN SIX (6) SPACES, BUT LESS THAN 20 SPACES AND WITH ONLY ONE POINT OF ENTRANCE AND EXIT (TWO WAY DRIVEWAYS) AND LOTS WITH 20 OR MORE SPACES SERVING OFFICE & RESIDENTIAL USES.	25'	35'
LOTS WITH 20 OR MORE SPACES SERVING COMMERCIAL AND INDUSTRIAL USES.	25'	45'
LOTS WHERE ANY TYPE OF USE REQUIRES FIRE TRUCK ACCESS BY DRIVEWAY.	25'	45'

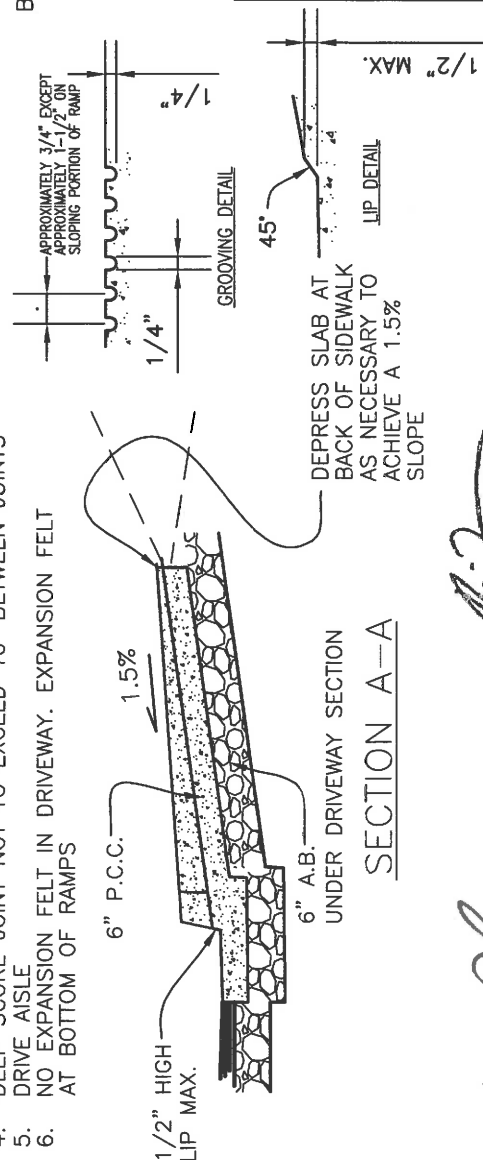


LEGEND

1. SLOPE OF RAMP SHALL BE A MINIMUM OF 6.67% AND A MAXIMUM OF 7.5%.
2. TACTILE STRIP. REFER TO LATEST CALTRANS STANDARD. WHEN BREAKING INTO EXISTING CURB, SAW CUT TO NEAREST EXISTING VERTICAL JOINT AND REPLACE.
3. 1/2" HIGH LIP, MAXIMUM.
4. DEEP SCORE JOINT NOT TO EXCEED 10' BETWEEN JOINTS
5. DRIVE AISLE
6. NO EXPANSION FELT IN DRIVEWAY. EXPANSION FELT AT BOTTOM OF RAMPS

NOTES:

- A. FIVE PERCENT (5%) MAXIMUM SLOPE FOR COMMERCIAL AND INDUSTRIAL USES. FIVE PERCENT (5%) DEVIATION ALLOWED WITH SPECIAL CONSTRUCTION TECHNIQUES IF APPROVED BY THE CITY ENGINEER.
- B. MAXIMUM RISE, AND THE RUN, SHALL BE MEASURED FOR THE WORST CONDITION BETWEEN THE BACK OF THE SIDEWALK AND THE FINISHED FLOOR, AT THE GARAGE OR CARPORT ENTRANCE.

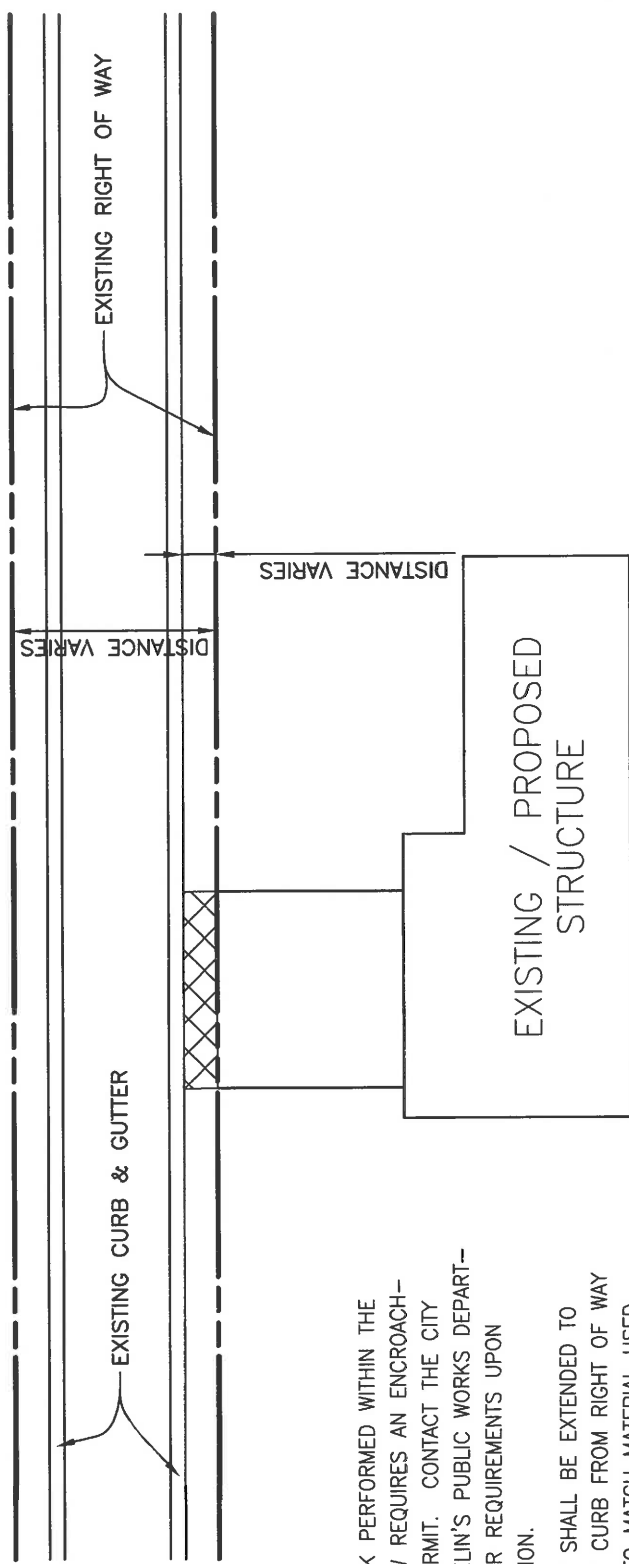


CITY OF ROCKLIN
ENGINEERING DIVISION
COMMERCIAL AND
INDUSTRIAL STANDARD
DRIVEWAY

SCALE: NONE	DWG #
DATE: DECEMBER 2015	3-19
DRAWN BY: J. PINKHAM	

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DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES *[Signature]*

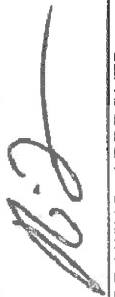


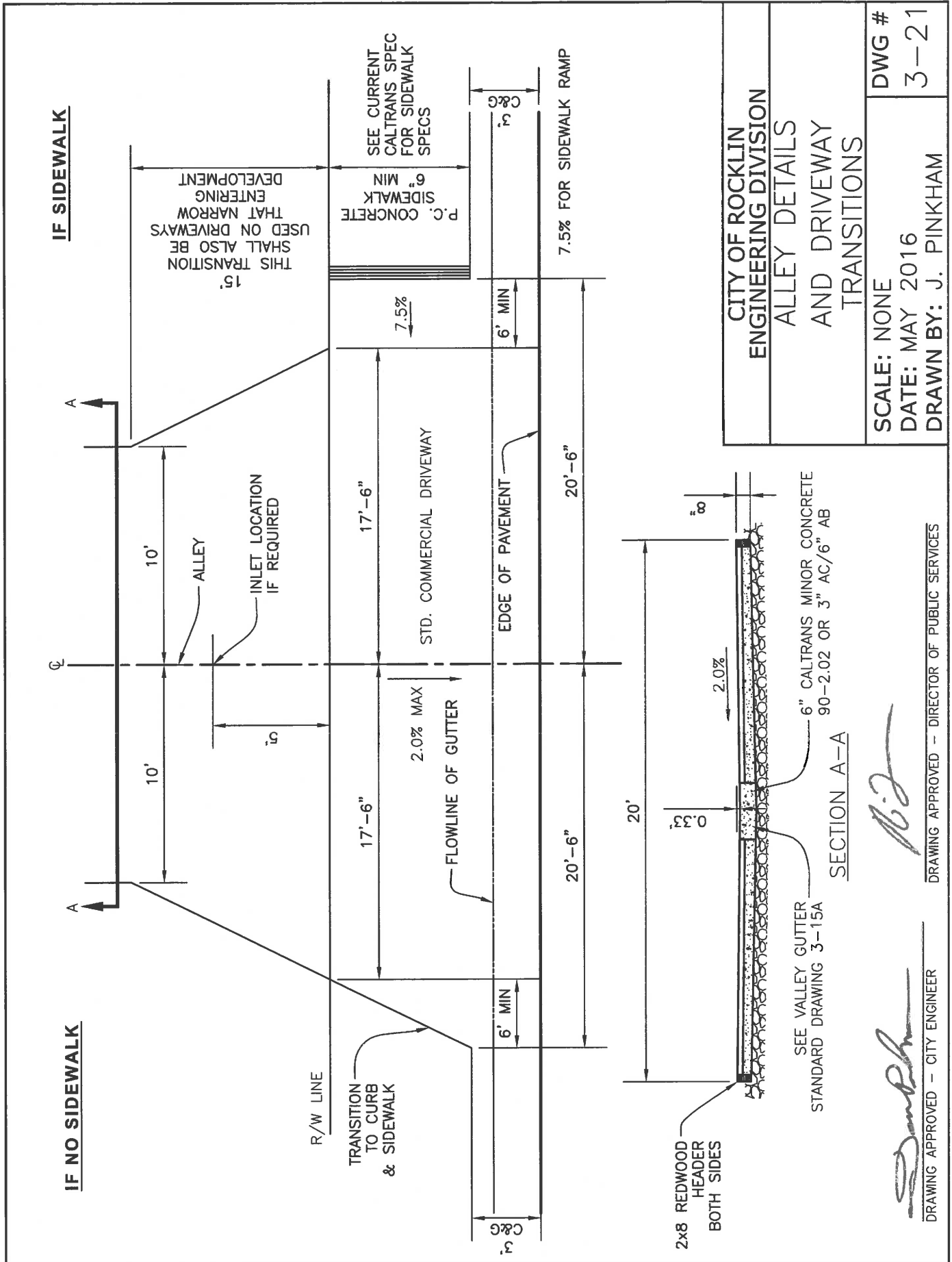
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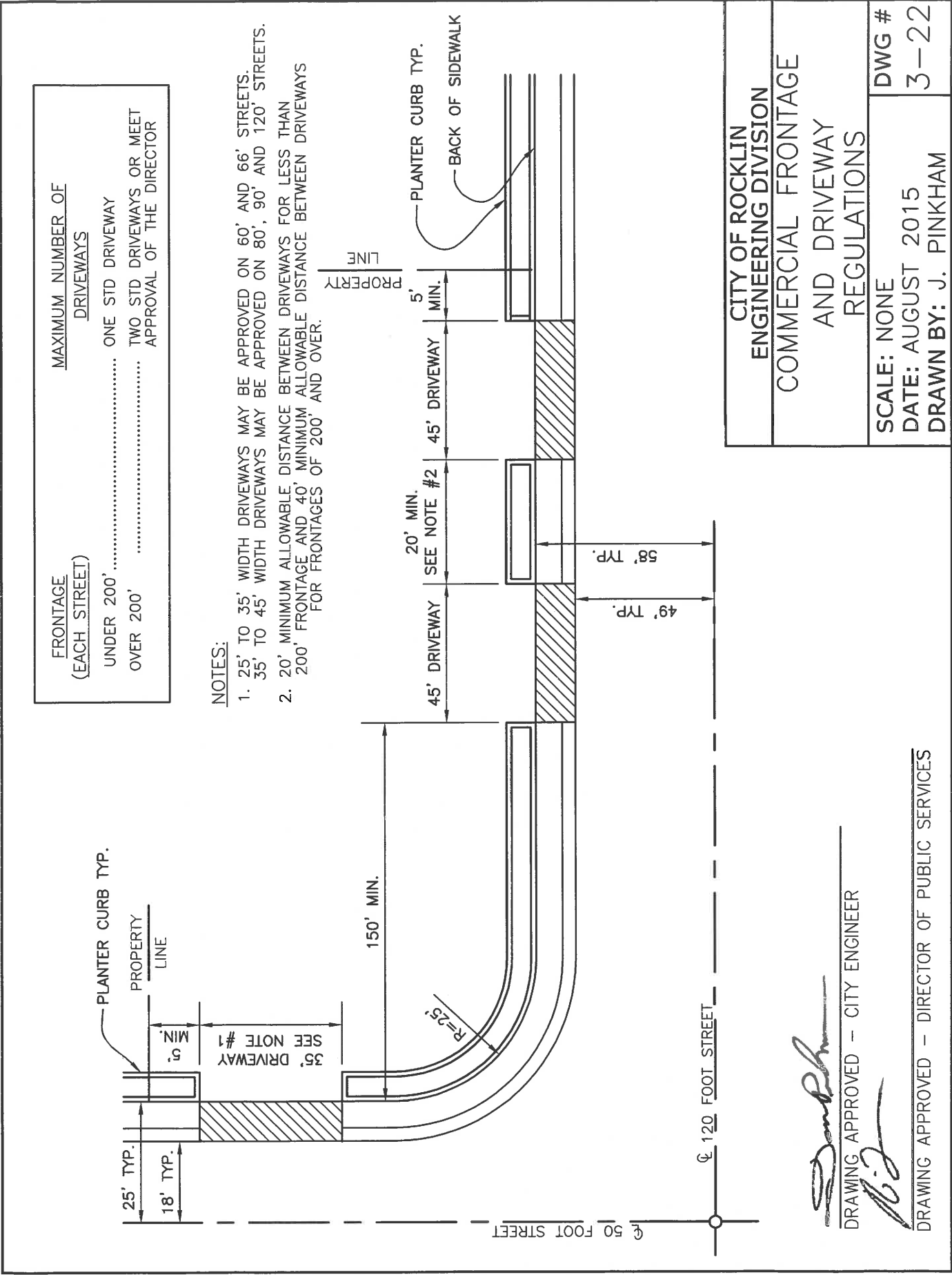
- 1) ANY WORK PERFORMED WITHIN THE CITY R/W REQUIRES AN ENCROACHMENT PERMIT. CONTACT THE CITY OF ROCKLIN'S PUBLIC WORKS DEPARTMENT FOR REQUIREMENTS UPON APPLICATION.
- 2) DRIVEWAY SHALL BE EXTENDED TO BACK OF CURB FROM RIGHT OF WAY AND IS TO MATCH MATERIAL USED FOR DRIVEWAY I.E.: CONCRETE, AC, ETC.

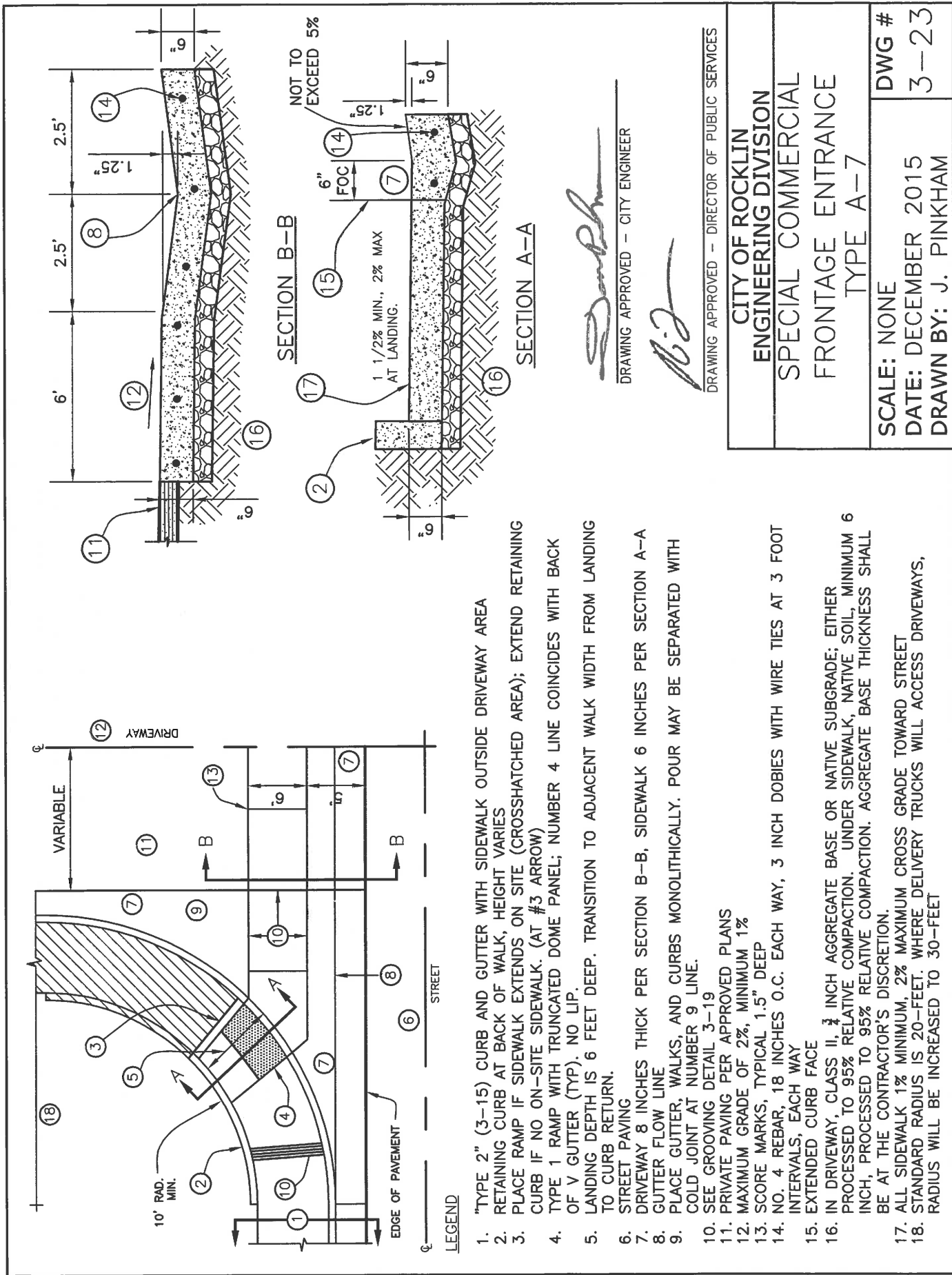
CITY OF ROCKLIN ENGINEERING DIVISION	
DRIVEWAY APPROACH DETAIL FOR AREAS WITH CURB & GUTTER; NO SIDEWALKS	
SCALE: NONE DATE: AUGUST 2015 DRAWN BY: J. PINKHAM	DWG # 3-20


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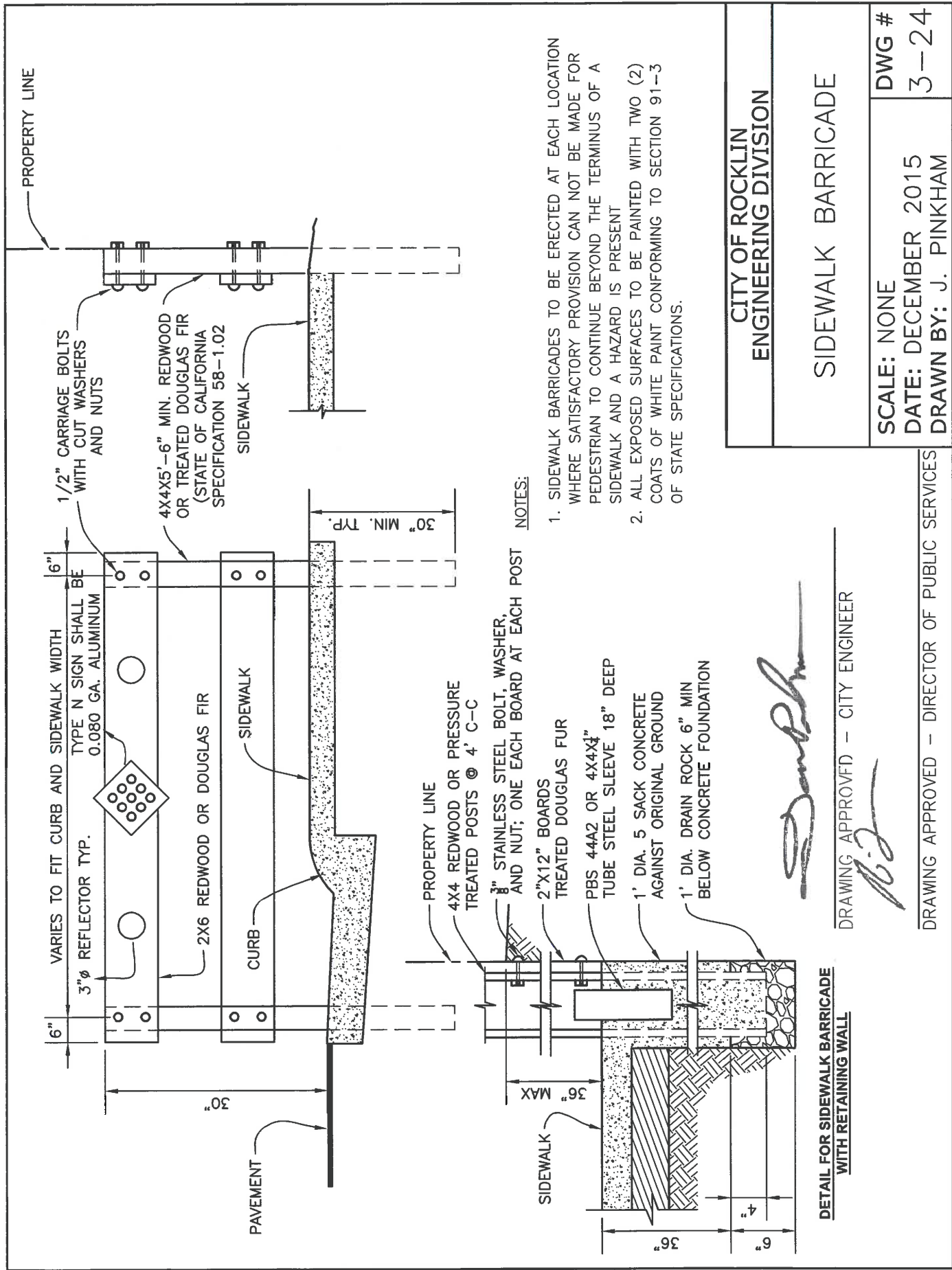


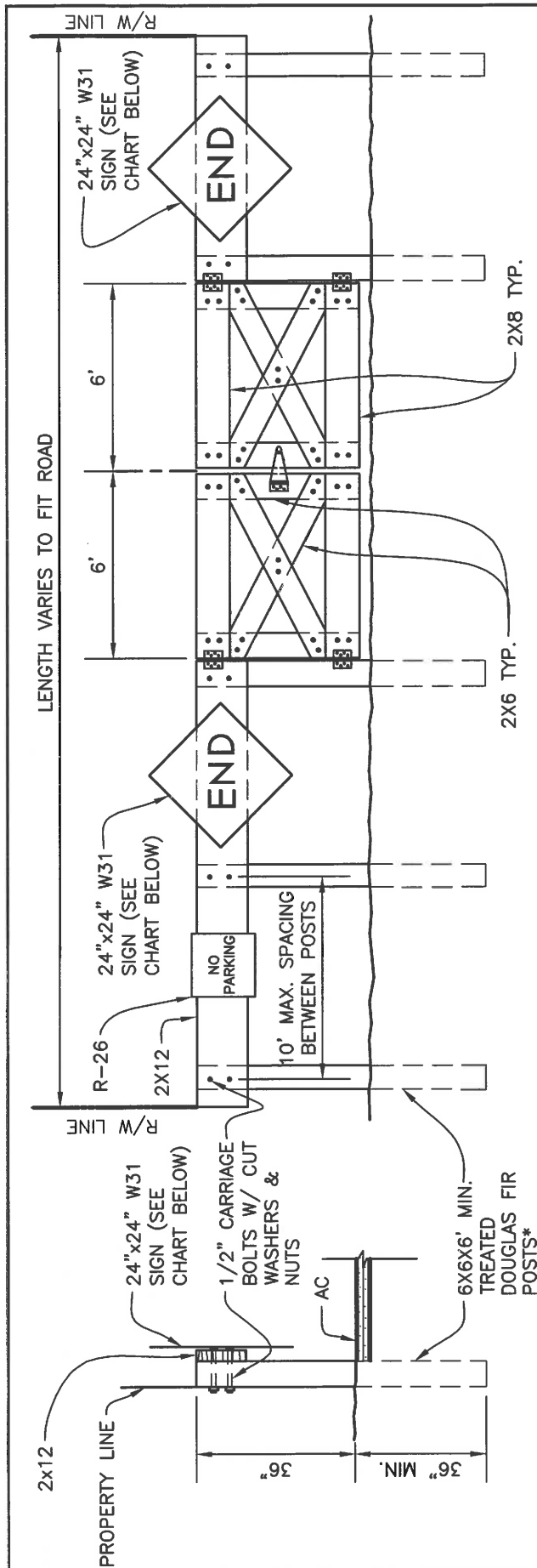


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DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION SPECIAL COMMERCIAL FRONTAGE ENTRANCE TYPE A-7	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 3-23





NUMBER AND SIZE OF SIGNS

R/W WIDTH	W31		TYPE N		C2		SIGN
	SIZE	NO.	SIZE	NO.	SIZE	NO.	
42' & 46'	24"	1	18"	1	36" X 24"	1	
50' & 66'	24"	1	18"	1	48" X 30"	1	
80' & 90'	24"	2	18"	2	48" X 30"	1	
110'	24"	3	18"	3	48" X 30"	1	

* STATE OF CALIFORNIA SPECIFICATION 56-2.02B

NOTES:

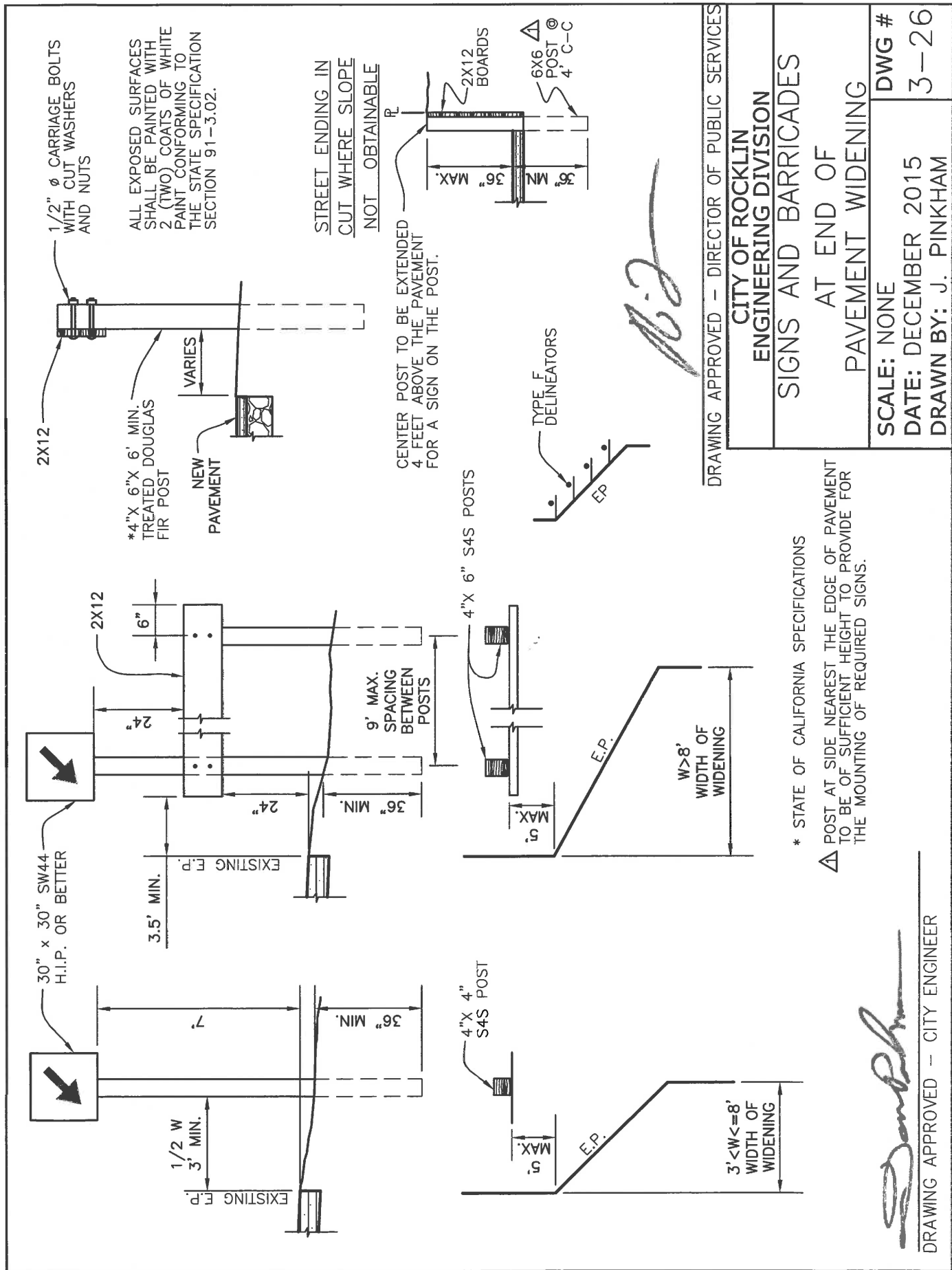
1. WHERE PERMISSION HAS BEEN GRANTED TO CLOSE EXISTING PUBLIC STREET, A C2 "ROAD CLOSED" SIGN WILL BE REQUIRED ON THE CENTERLINE OF THE ROAD IN ADDITION TO THE W31 "END" SIGNS.
2. 24" x 24" W31 SIGNS AND 18" x 18" RED TYPE N MARKERS. BLOCK OUT AS NECESSARY FOR TYPE N MARKER TOP MOUNTING BOLT (BOTTOM MOUNTING BOLT NORMALLY THROUGH BARRIER RAIL.)
3. ALL SIGNS TO BE H.I.P. OR BETTER.
4. ALL EXPOSED SURFACES SHALL BE PAINTED WITH WHITE PAINT CONFORMING TO SECTION 91-3.02.
5. POST AT CENTER OR NEAREST TO CENTER ON RIGHT HAND SIDE TO BE EXTENDED TO PROVIDE MOUNTING FOR SIGNS.

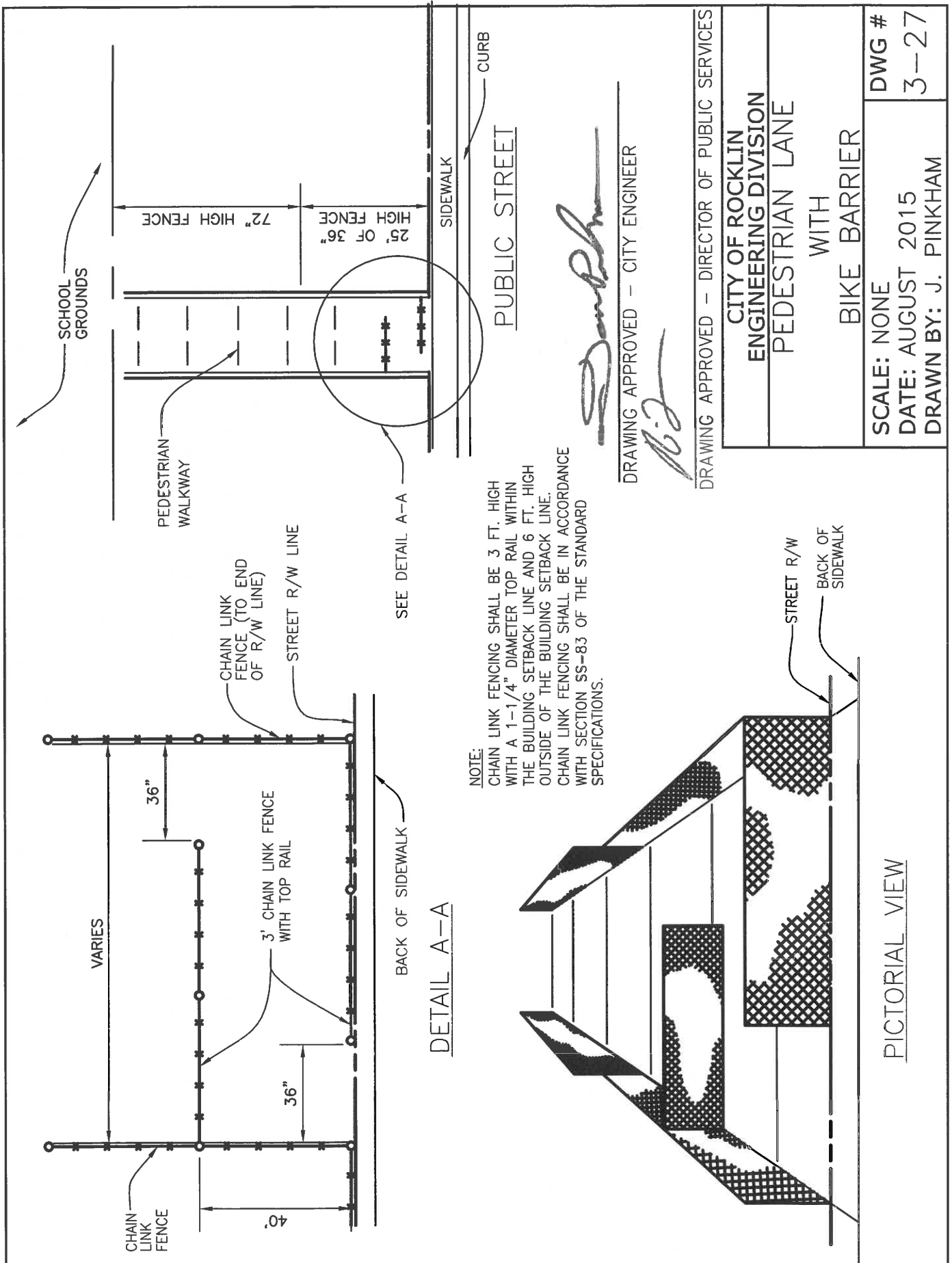
CITY OF ROCKLIN
ENGINEERING DIVISION
STREET CLOSURE
GATED TIMBER
BARRICADE

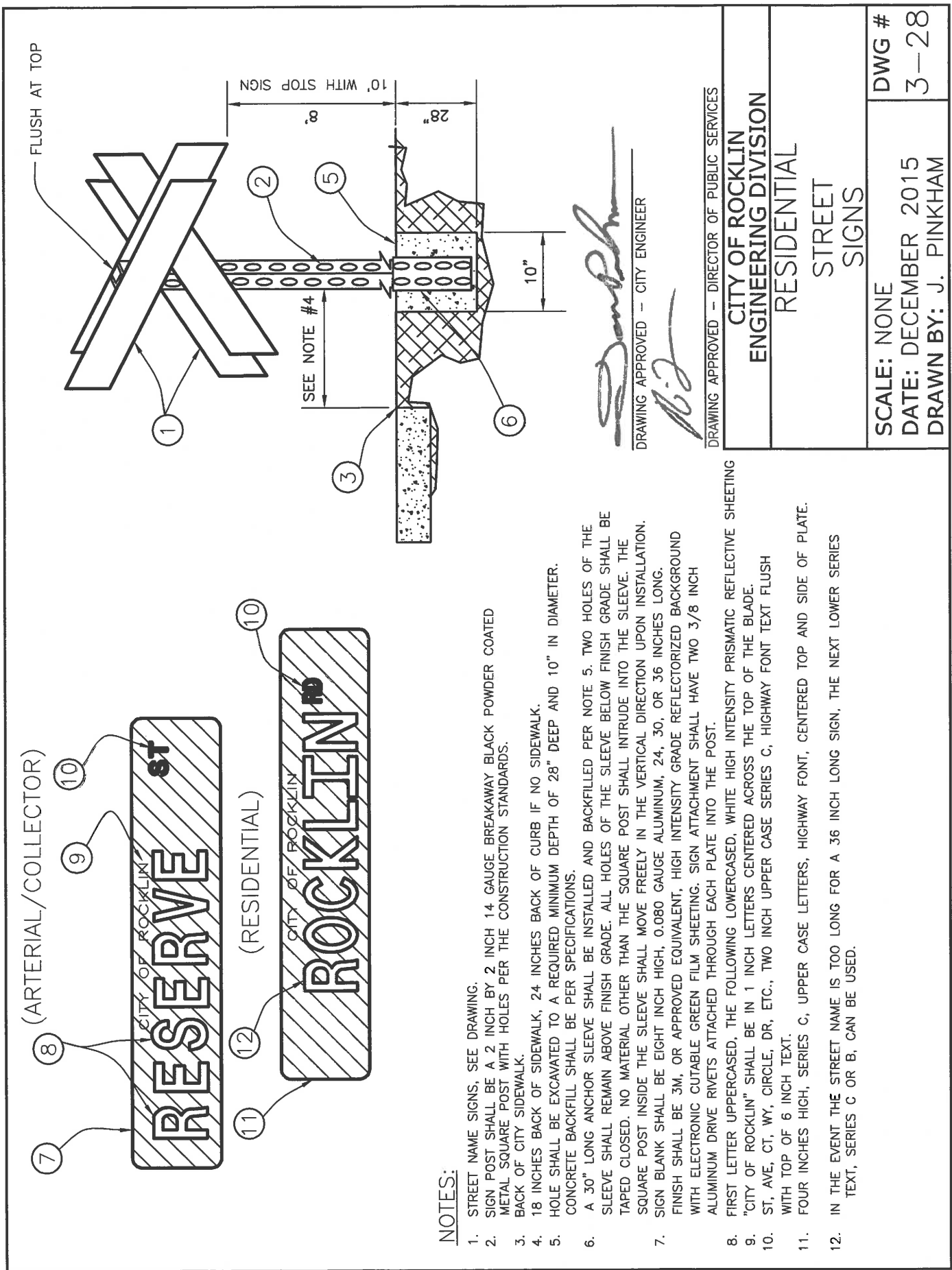
SCALE: NONE	DWG #
DATE: DECEMBER 2015	3-25
DRAWN BY: J. PINKHAM	

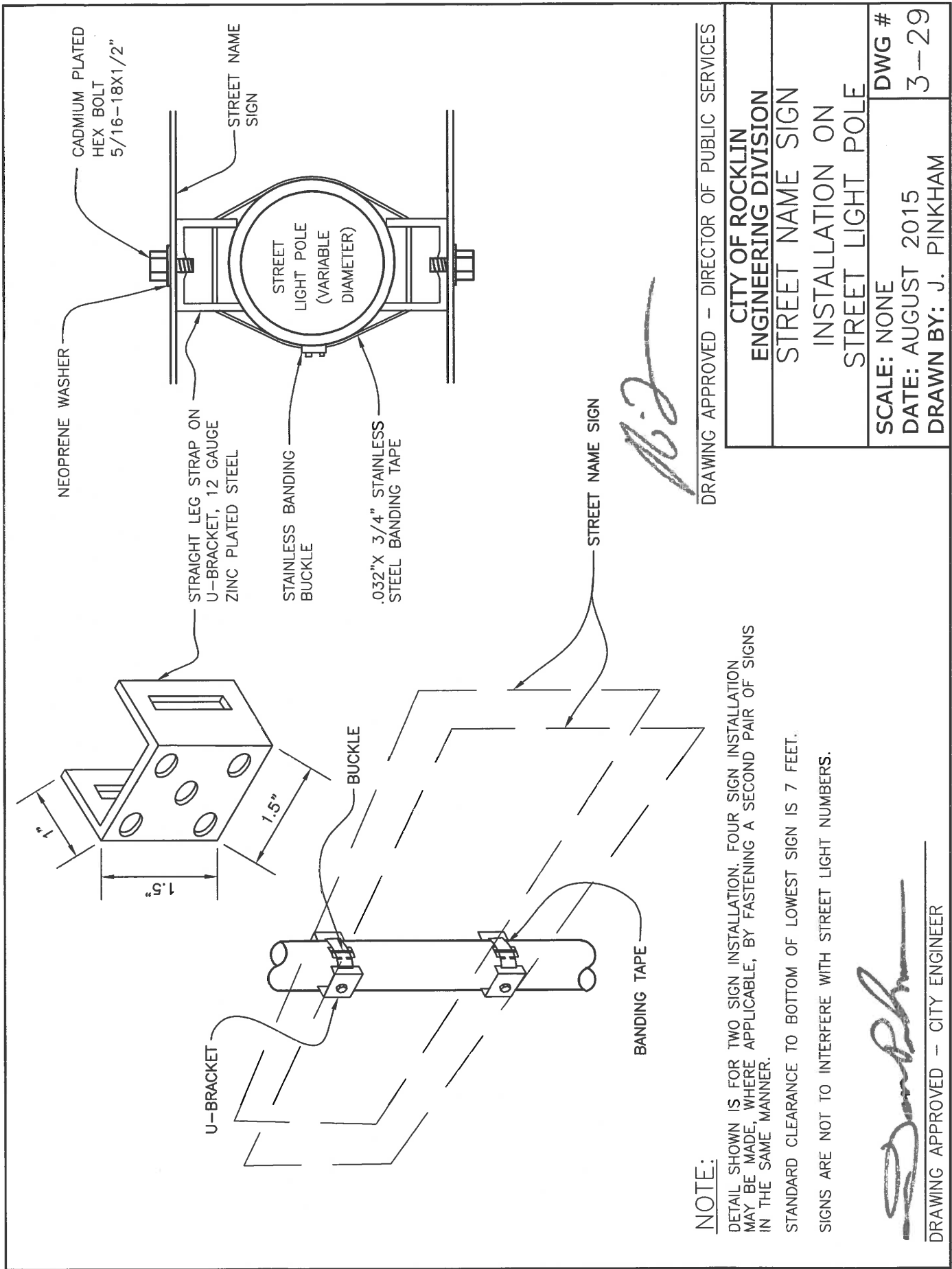
DRAWING APPROVED - CITY ENGINEER

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES





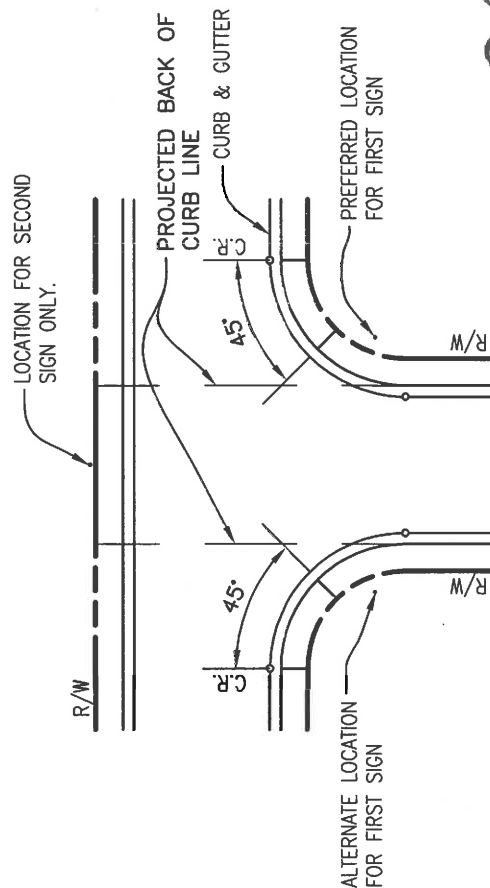
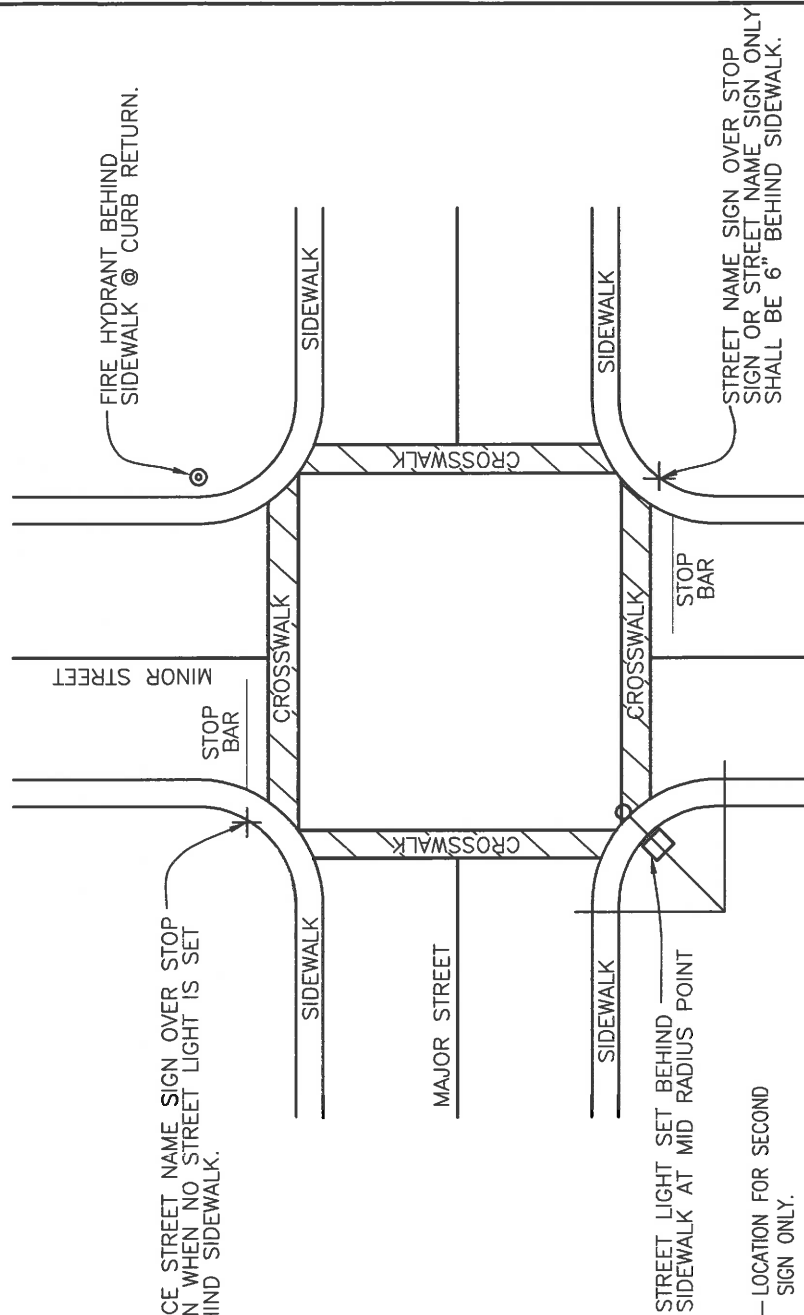




NOTE:

1. WHEN STREET LIGHTS ARE AT THE INTERSECTION, THE STANDARD IS SET SO THAT THE STREET SIGN CAN BE ATTACHED TO IT.

2. STREET LIGHTS, STREET NAME SIGNS, AND STOP SIGNS ARE TO BE PLACED AT THE MID RADIUS POINT OF THE CORNER.

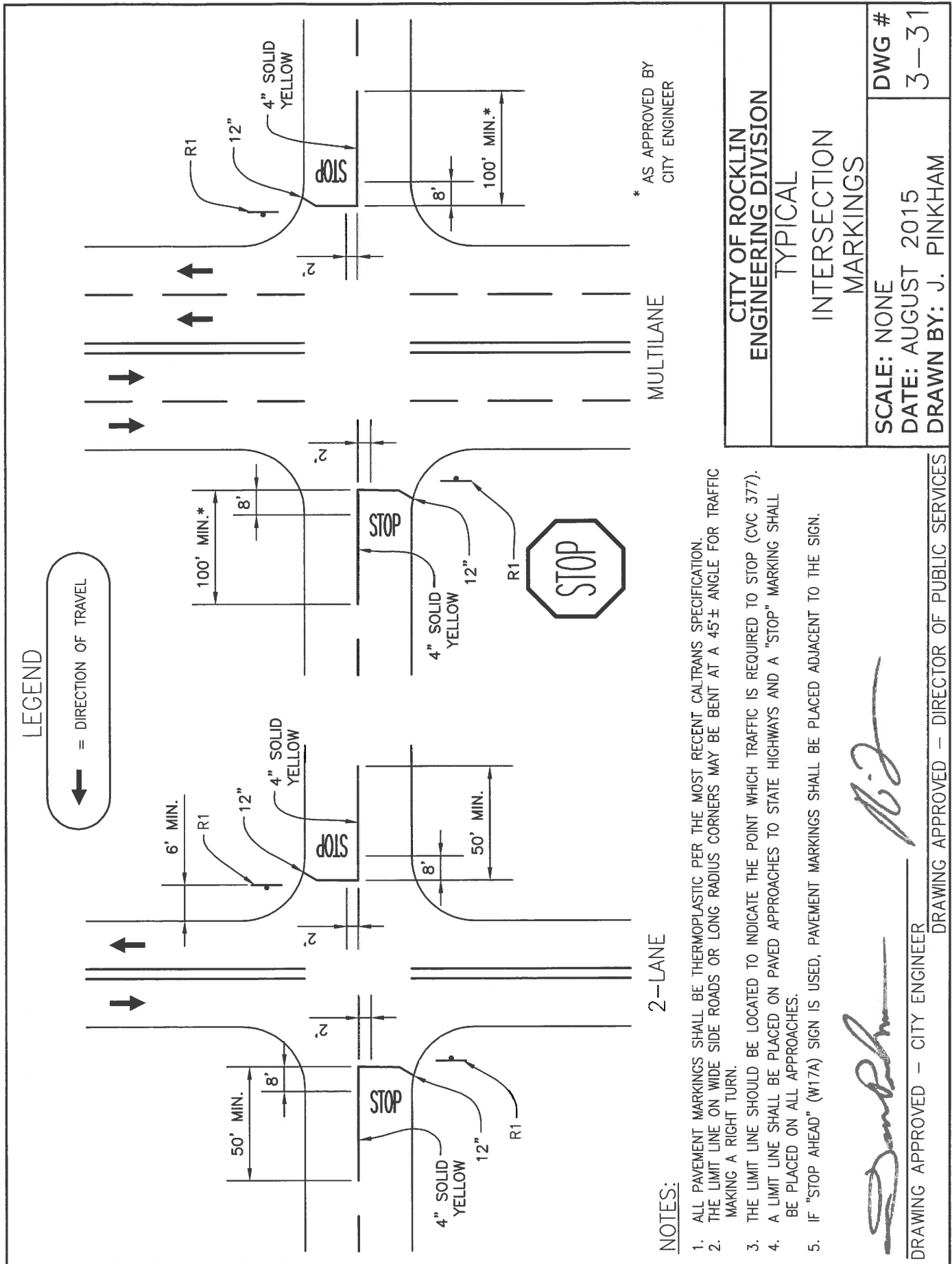


16.2

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
STREET LIGHT & STREET SIGN PLACEMENT DETAILS	
SCALE: NONE	DWG #
DATE: AUGUST 2015	3-30
DRAWN BY: J. PINKHAM	

[Signature]
DRAWING APPROVED - CITY ENGINEER

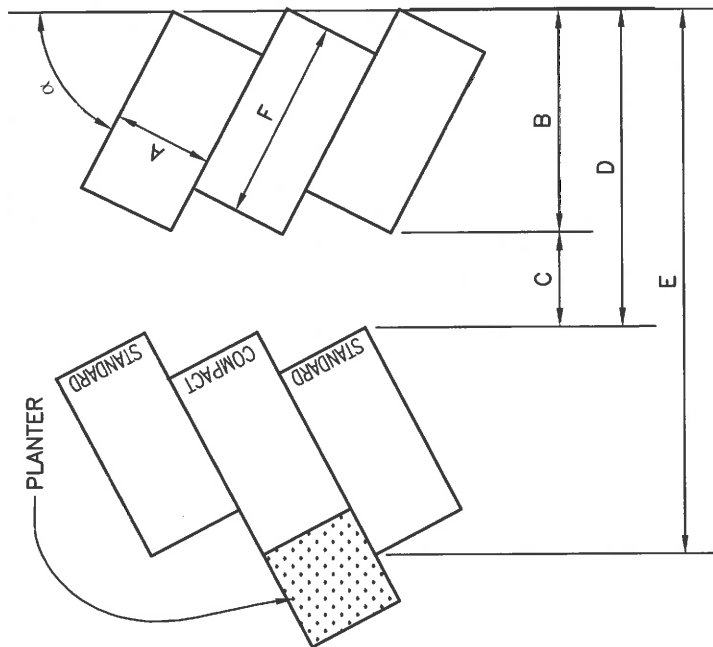


THE DIMENSION OF EACH PARKING SPACE SHALL BE DETERMINED FROM THE FOLLOWING CHART:

OFF-STREET PARKING

ANGLE	STALL WIDTH	STALL TO CURB	AISLE WIDTH (MIN.)	ONE ROW PLUS AISLE	TWO ROWS+ AISLE	STALL LENGTH
α	A	B	C	D	E	F
90° ①	9'-0"	19'-0"	25'-0"***	44'-0"	63'-0"	19'-0"
90° ②	8'-0"	16'-0"	25'-0"***	41'-0"	57'-0"	16'-0"
60°	9'-0"	21'-0"	19'-0"*	40'-0"	61'-0"	19'-0"
45°	9'-0"	19'-10"	16'-4"*	36'-2"	56'-0"	19'-0"

(D = B+C; E = 2B+C)



OFF-STREET PARKING LAYOUT

NOTES:

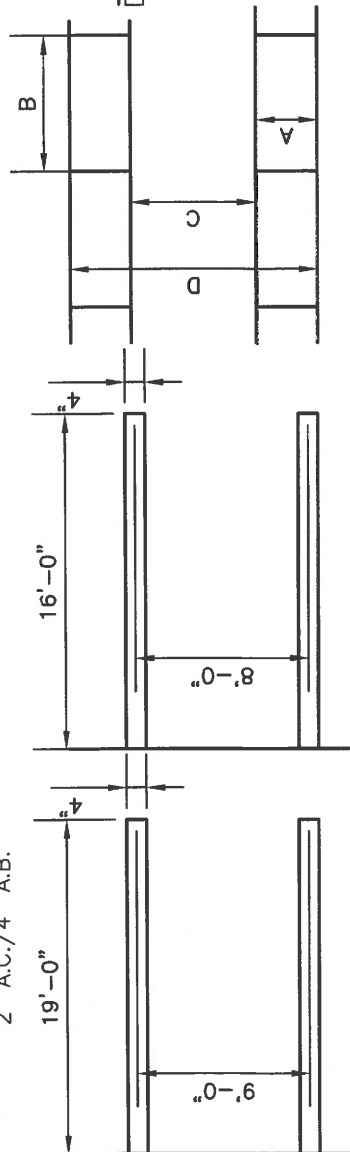
- 1) ** DENOTES TWO WAY AISLE
* DENOTES ONE-WAY AISLE
- 2) WHEEL STOPS ARE TO BE PLACED TWO FEET (2') IN FROM EDGE OF PARKING STALL.
- 3) SEE ROCKLIN MUNICIPAL CODE FOR SPACE REQUIREMENTS.

PARALLEL PARKING

STALL WIDTH	STALL LENGTH	AISLE	TWO ROWS+ AISLE
A	B	C	D
9'-0"	24'-0"	12'-0"	30'-0"
9'-6"	24'-0"	12'-0"	31'-0"
10'-0"	24'-0"	12'-0"	32'-0"

NOTE: MIN. STRUCTURAL SECTION 2" A.C./4" A.B.

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16.2

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION

TYPICAL

OFF-STREET
PARKING

SCALE: NONE
DATE: AUGUST 2015
DRAWN BY: J. PINKHAM

DWG #
3-32

LEGEND

1. SLOPE OF THE RAMP SHALL BE A MINIMUM OF 6.67% AND A MAXIMUM OF 8.33%. THESE SHALL BE INDICATED ON THE PLANS.
2. TACTILE STRIP, WHEN BREAKING INTO EXISTING CURB, SAW CUT TO NEAREST EXISTING VERTICAL JOINT AND REPLACE. REFER TO LATEST CALTRANS STANDARDS FOR DETAILS.
3. NO LIP
4. TRUNCATED DOME PER LATEST CALTRANS STANDARDS.
5. 12' MIN. AT TYPICAL PARKING STALL MINIMUM AT VAN ACCESSIBLE PARKING STALL.
6. H.C. STALL SIGN AT EACH STALL.
7. TYPICAL H.C. SYMBOL.
8. STRIPES AT 36" ON CENTER.

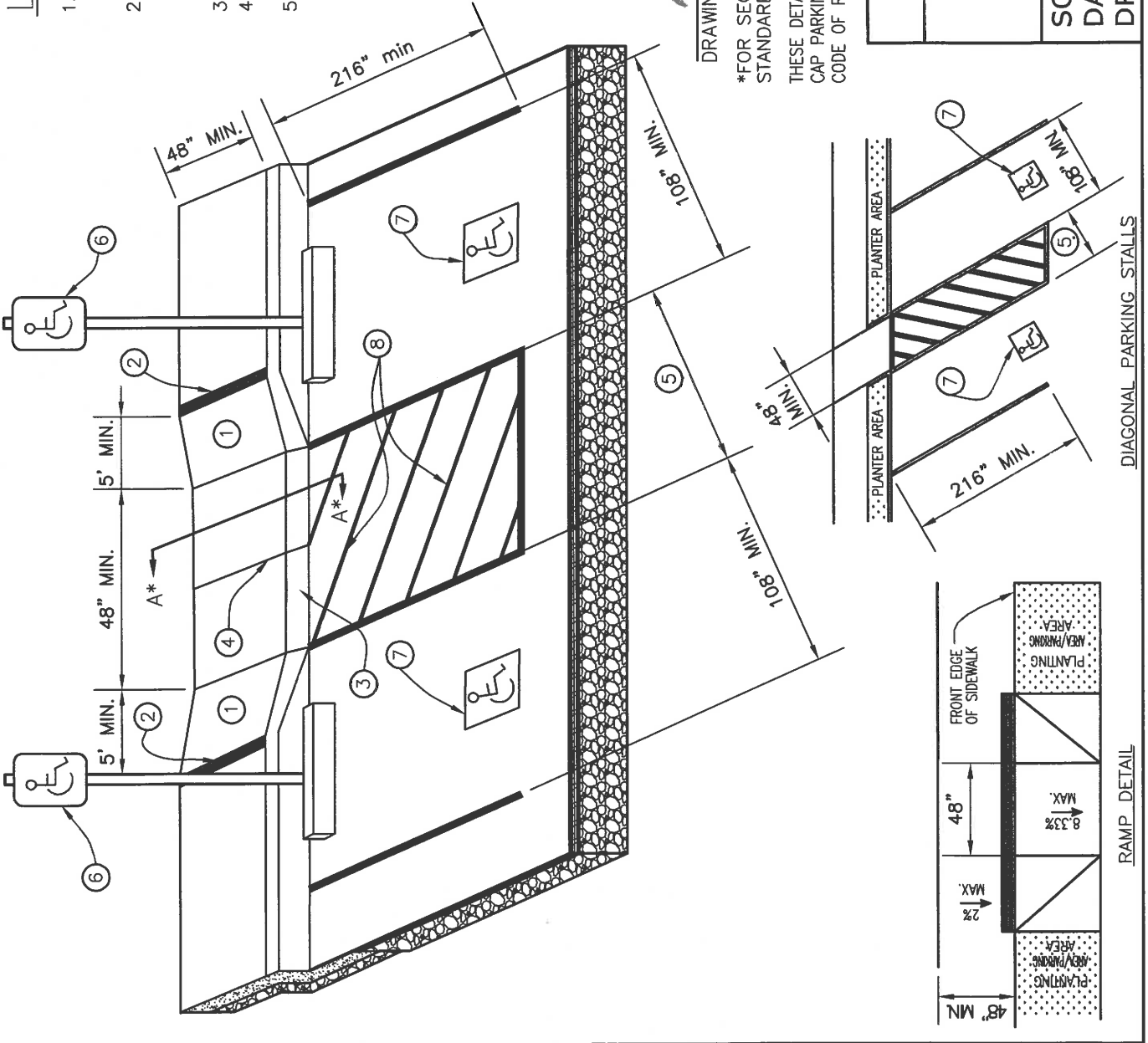
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DRAWING APPROVED - CITY ENGINEER

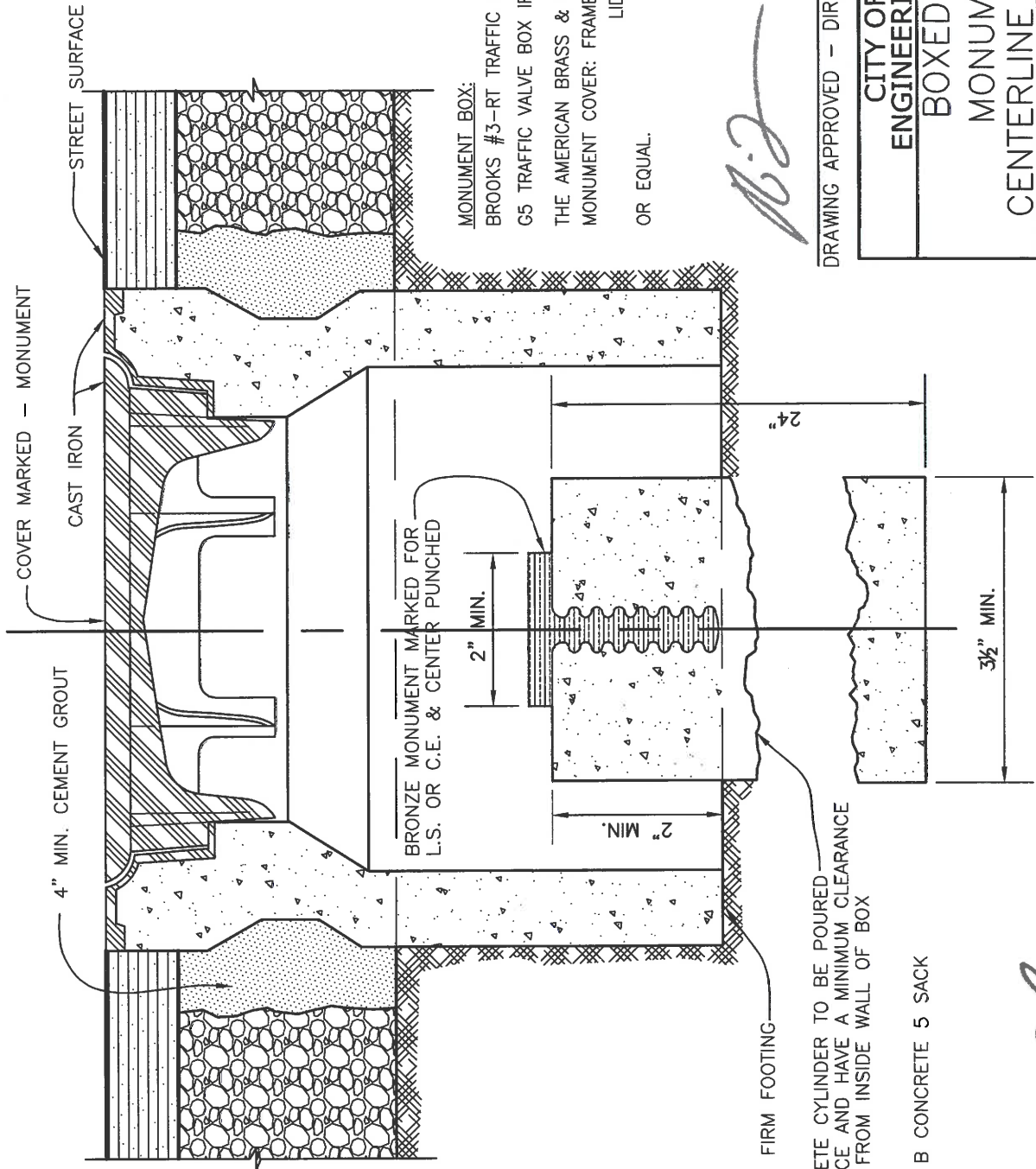
[Signature]

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES
*FOR SECTION A-A AND LIP DETAIL SEE CITY OF ROCKLIN STANDARD DRAWING 3-19.

THESE DETAILS ARE FOR GENERAL GUIDELINES ONLY. ALL HANDICAP PARKING STALLS AND RAMPS MUST CONFORM TO CALIFORNIA CODE OF REGULATIONS (C.C.R.), TITLE 24, PART 2, ADA REQUIREMENTS.

CITY OF ROCKLIN ENGINEERING DIVISION	
HANDICAP PARKING SPACE LAYOUT DETAIL	
SCALE: NONE	DWG #
DATE: MAY 2016	3-33
DRAWN BY: J. PINKHAM	





MONUMENT BOX:
BROOKS #3-RT TRAFFIC GATE VALVE BOX
G5 TRAFFIC VALVE BOX IRON SIDES
THE AMERICAN BRASS & IRON FOUNDRY
MONUMENT COVER: FRAME 5020
LID 5022
OR EQUAL.

16-2

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

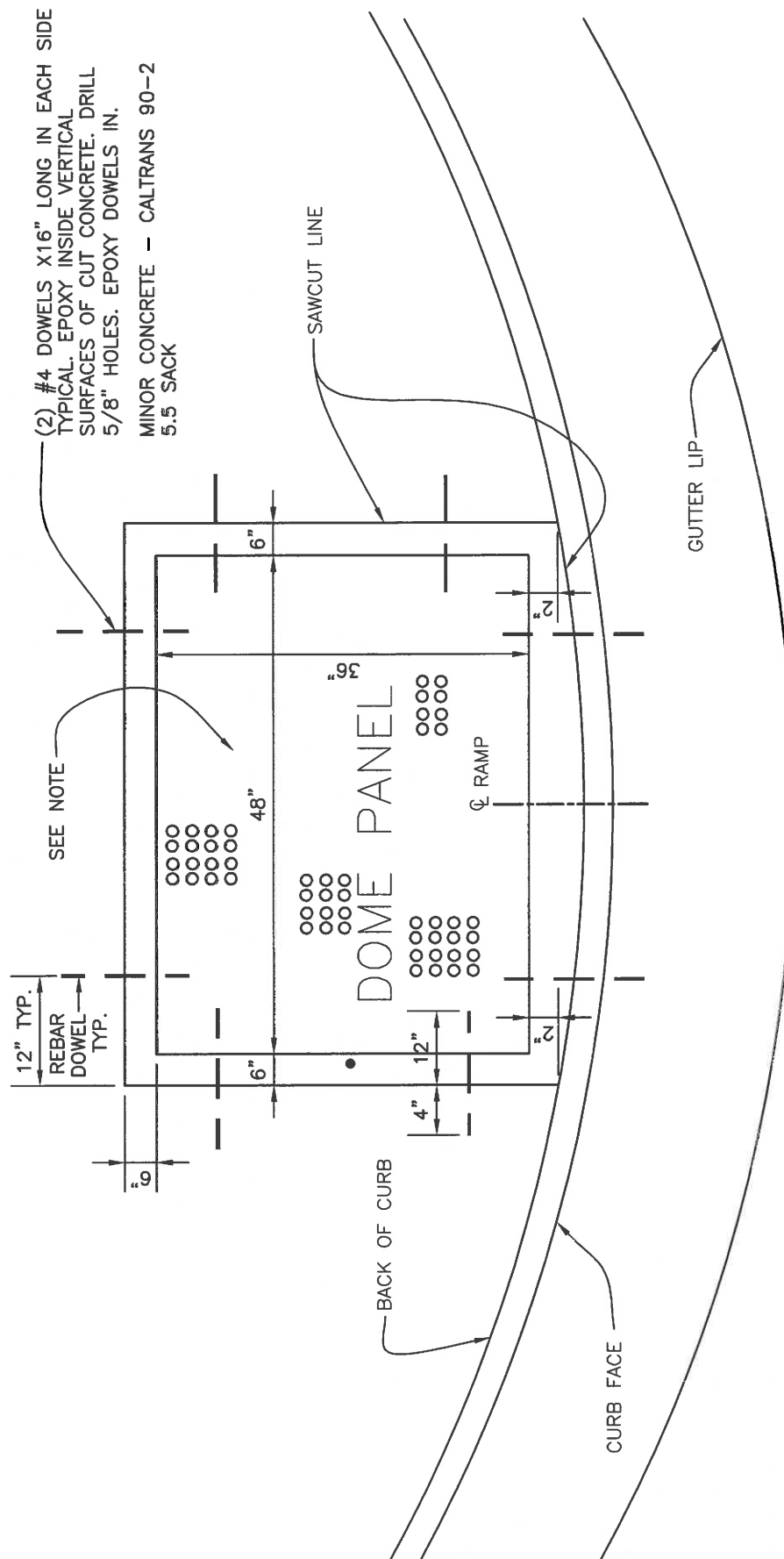
CITY OF ROCKLIN ENGINEERING DIVISION	
BOXED SURVEY	
MONUMENT FOR CENTERLINE INTERSECTION	
SCALE: NONE	DWG #
DATE: AUGUST 2015	3-34
DRAWN BY: J. PINKHAM	

CONCRETE CYLINDER TO BE POURED
IN PLACE AND HAVE A MINIMUM CLEARANCE
OF 1" FROM INSIDE WALL OF BOX

CLASS B CONCRETE 5 SACK

[Signature]

DRAWING APPROVED - CITY ENGINEER



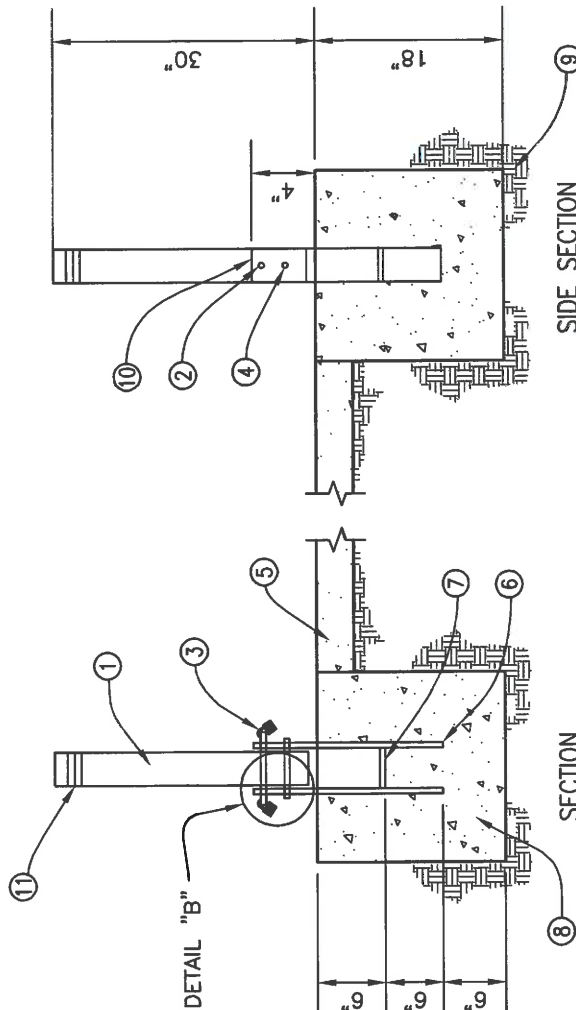
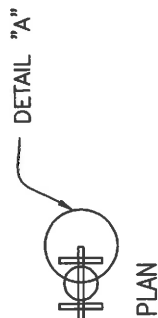
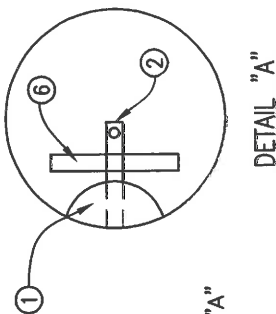
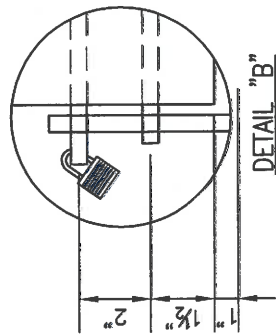
NOTE:

NOTE:
PRIOR TO RETROFITTING TRUNCATED DOME PANEL,
ASSURE GRADES CONFORM TO ADA/TITLE 24 REQUIREMENTS.
DOME DETAIL PER LATEST CALTRANS STANDARDS
COLOR MUST BE YELLOW

DRAWING APPROVED - CITY ENGINEER

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
DETECTABLE WARNING TRUNCATED DOME PANEL RETROFIT OR REPLACEMENT	
SCALE: NONE DATE: MAY 2016 DRAWN BY: J. PINKHAM	DWG # 3-35



- LEGEND:**

1. 11 GAUGE, 2 3/4" O.D. ROUND STEEL POST WITH CAPPED TOP AND 3/4" HOLES FOR SWIVEL ROD AND 3/4" HOLES FOR LOCKING PIN. EASE ALL EDGES OF STEEL POST.
2. 3/8" DIA. X 6" LOCKING PIN WITH 3/8" HOLES 1/4" FROM EACH END OF PIN OR 3/8" DIA. X 5" LOCKING PIN WITH FLAT WASHER ON ONE END AND 3/8" HOLE 1/4" FROM END OF PIN.
3. PADLOCKS TO BE PROVIDED BY CONTRACTOR.
4. 5/8" DIA. STEEL SWIVEL ROD. WELD SWIVEL ROD TO SIDE PLATES - NO WASHERS.
5. CONCRETE PAVING / ASPHALT. HOLD CONCRETE 2" BELOW FINISHED GRADE. BLACK TOP REST.
6. 3/8" X 16" X 4" STEEL BASE PLATE WITH 1" RADIUS CORNERS. EASE ALL EDGES.
7. 3/8" STEEL BRACE. FILED WELD BOTH SIDES TO BASE PLATE.
8. 24" ROUND CONCRETE X 18" DEEP FOOTING.
9. COMPACTED SUBGRADE.
10. 1" RADIUS CORNERS, TYP.
11. 1" RED DIAMOND REFLECTIVE TAPE

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DRAWING APPROVED -- DIRECTOR OF PUBLIC SERVICES

**CITY OF ROCKLIN
ENGINEERING DIVISION**

COLLAPSING BOLLARD DETAIL

SCALE: NONE

DATE: DECEMBER 2015

DRAWN BY: J. PINKHAM

DWG #
3-36

NOTES:

1. ALL PIPE SHALL BE BLACK STEEL
2. MINOR CONCRETE PER CALTRANS OR CLASS "B"
3. ALL JOINTS SHALL BE WELDED IN ACCORDANCE WITH CA STATE STANDARD SPECIFICATIONS FOR WELDING STRUCTURAL STEEL.
4. ALL PARTS (EXCEPT PADLOCK) SHALL BE PAINTED WITH TWO COATS OF ZINC CHROMATE PRIMER AND TWO COATS OF EXTERIOR ENAMEL. COLOR: YELLOW PER CITY STANDARDS.
5. BOLLARD SHALL BE INSTALLED SUCH THAT WHEN FOLDED IT LAYS FLAT.

LEGEND:
SIGN
CONE OR PORTABLE DELINEATOR
DIRECTION OF TRAFFIC
FLASHING ARROW SIGN

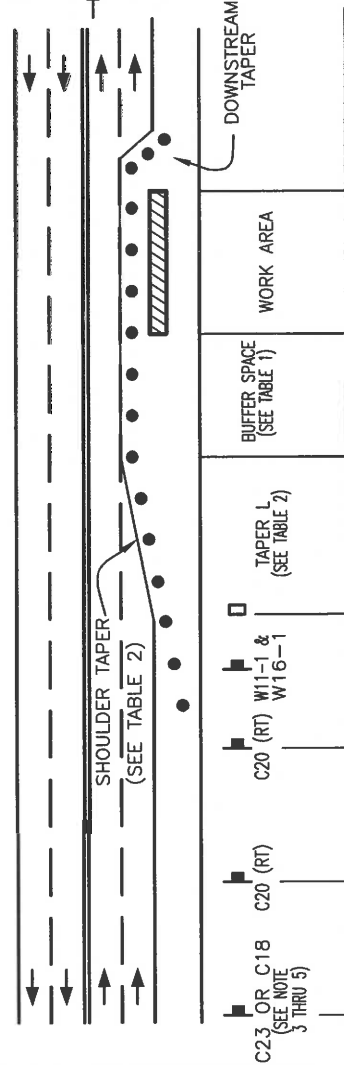


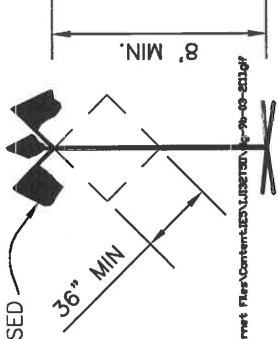
TABLE 1

Length of Longitudinal Buffer Space in Feet	Speed in Miles Per Hour	Length of Taper in Feet
25	25	115
30	30	125
35	35	155
40	40	180
45	45	200
50	50	225
55	55	245
60	60	255
65	65	293
70	70	320
75	75	360
80	80	405
85	85	450
90	90	495
95	95	540
100	100	590
105	105	635
110	110	680
115	115	725
120	120	770
125	125	815
130	130	860
135	135	905
140	140	950
145	145	995
150	150	1040
155	155	1085
160	160	1130
165	165	1175
170	170	1220
175	175	1265
180	180	1310
185	185	1355
190	190	1400
195	195	1445
200	200	1490
205	205	1535
210	210	1580
215	215	1625
220	220	1670
225	225	1715
230	230	1760
235	235	1805
240	240	1850
245	245	1895
250	250	1940
255	255	1985
260	260	2030
265	265	2075
270	270	2120
275	275	2165
280	280	2210
285	285	2255
290	290	2300
295	295	2345
300	300	2390
305	305	2435
310	310	2480
315	315	2525
320	320	2570
325	325	2615
330	330	2660
335	335	2705
340	340	2750
345	345	2795
350	350	2840
355	355	2885
360	360	2930
365	365	2975
370	370	3020
375	375	3065
380	380	3110
385	385	3155
390	390	3200
395	395	3245
400	400	3290
405	405	3335
410	410	3380
415	415	3425
420	420	3470
425	425	3515
430	430	3560
435	435	3605
440	440	3650
445	445	3695
450	450	3740
455	455	3785
460	460	3830
465	465	3875
470	470	3920
475	475	3965
480	480	4010
485	485	4055
490	490	4100
495	495	4145
500	500	4190
505	505	4235
510	510	4280
515	515	4325
520	520	4370
525	525	4415
530	530	4460
535	535	4505
540	540	4550
545	545	4595
550	550	4640
555	555	4685
560	560	4730
565	565	4775
570	570	4820
575	575	4865
580	580	4910
585	585	4955
590	590	5000
595	595	5045
600	600	5090
605	605	5135
610	610	5180
615	615	5225
620	620	5270
625	625	5315
630	630	5360
635	635	5405
640	640	5450
645	645	5495
650	650	5540
655	655	5585
660	660	5630
665	665	5675
670	670	5720
675	675	5765
680	680	5810
685	685	5855
690	690	5900
695	695	5945
700	700	5990
705	705	6035
710	710	6080
715	715	6125
720	720	6170
725	725	6215
730	730	6260
735	735	6305
740	740	6350
745	745	6395
750	750	6440
755	755	6485
760	760	6530
765	765	6575
770	770	6620
775	775	6665
780	780	6710
785	785	6755
790	790	6800
795	795	6845
800	800	6890
805	805	6935
810	810	6980
815	815	7025
820	820	7070
825	825	7115
830	830	7160
835	835	7205
840	840	7250
845	845	7295
850	850	7340
855	855	7385
860	860	7430
865	865	7475
870	870	7520
875	875	7565
880	880	7610
885	885	7655
890	890	7700
895	895	7745
900	900	7790
905	905	7835
910	910	7880
915	915	7925
920	920	7970
925	925	8015
930	930	8060
935	935	8105
940	940	8150
945	945	8195
950	950	8240
955	955	8285
960	960	8330
965	965	8375
970	970	8420
975	975	8465
980	980	8510
985	985	8555
990	990	8600
995	995	8645
1000	1000	8690

TABLE 2

Speed Limits	Distance Between Signs in Feet
25 mph or less	100
30 or more	350
Rural	500
Expressway	1000

Advance Warning Sign Spacing



ADVANCED WARNING SIGN (2 FLAGS AND MINIMUM DIMENSIONS MANDATORY)

W11-1 & W16-1 (SEE NOTE 9)

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SPECIAL NOTES:

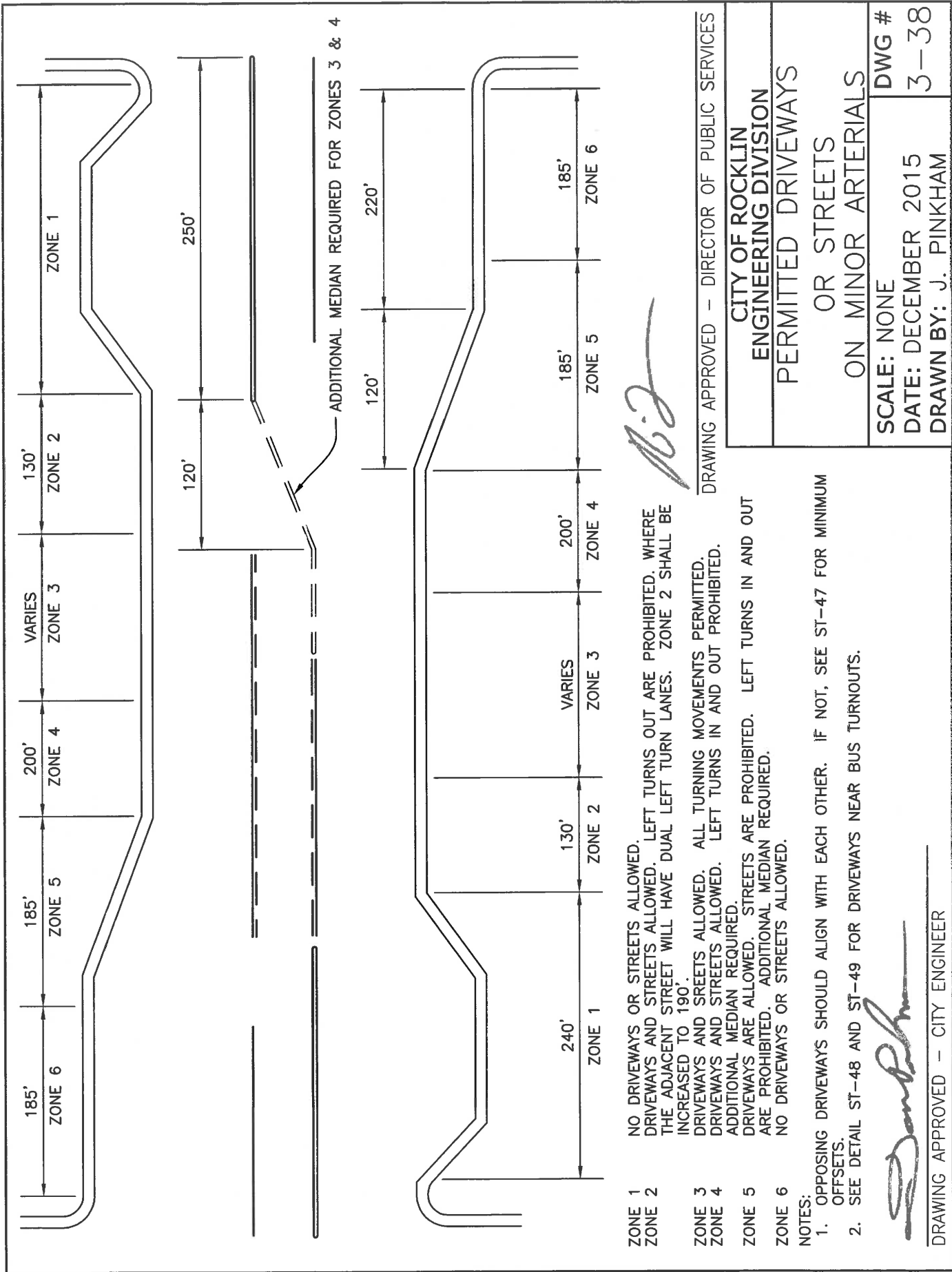
THIS DETAIL IS REPRODUCED FROM FIGURE 6C-1 OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2012 EDITION, CHAPTER 6-TEMPORARY TRAFFIC CONTROL. FIELD CONDITIONS COULD REQUIRE DEVIATIONS FROM THESE PLANS AND ACCOMPANYING NOTES.

NOTES:

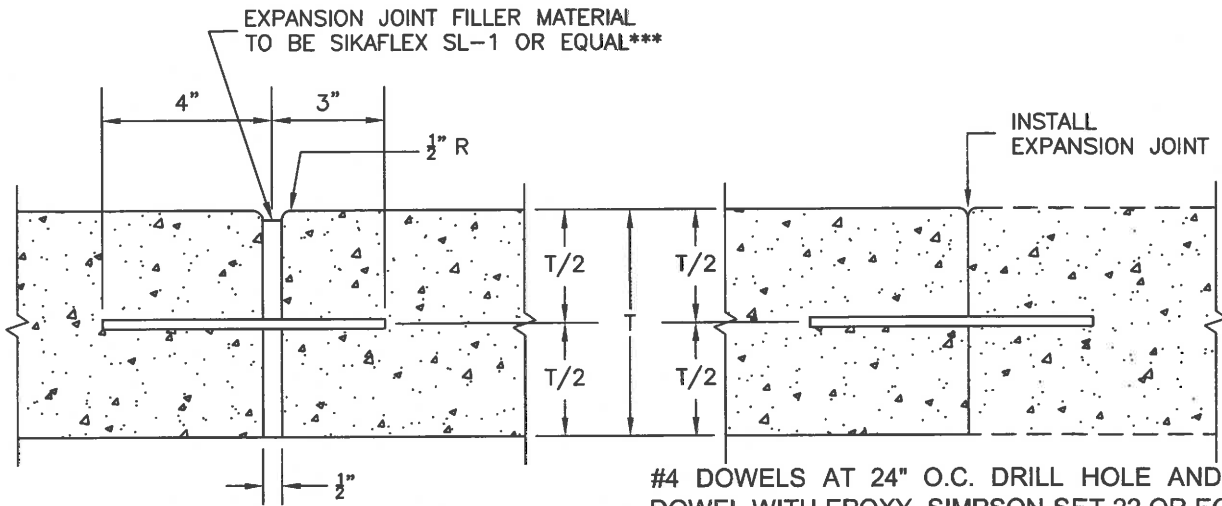
1. THIS PLAN DOES NOT APPLY WHERE THERE ARE EMERGENCY CONDITIONS. UNDER EMERGENCY CONDITIONS, EQUIPMENT AND PERSONNEL WHICH ARE AVAILABLE SHOULD BE UTILIZED TO IMPLEMENT A CLOSURE, EVEN THOUGH SUCH CLOSURE DOES NOT MEET THE STANDARDS CONTAINED IN THIS PLAN. AS EQUIPMENT OR PERSONNEL BECOME AVAILABLE, AN IMMEDIATE EFFORT SHOULD THEN BE MADE TO IMPLEMENT THE STANDARDS SHOWN ON THIS PLAN.
2. ALL ADVANCE WARNING SIGNS SHALL BE 36" X 36" MINIMUM. (SEE NOTE 4)
3. ALL WARNING SIGNS FOR NIGHT CLOSURES SHALL BE EITHER ILLUMINATED OR RETROREFLECTORIZED.
4. A C18 "ROAD CONSTRUCTION AHEAD" SIGN MAY BE USED IN LIEU OF THE C23. (SEE NOTE 2)
5. WARNING (W) SERIES SIGNS USED IN WORK ZONES SHALL BE BLACK ON ORANGE. EXISTING YELLOW PAVEMENT MARKINGS FOR CLOSURES SHALL CONFORM TO SECTION 6 OF THE CAMUTCD 2006 EDITION AND CALTRANS STANDARD PLANS.
6. ALL CONES SHALL BE INTERNALLY ILLUMINATED OR FITTED WITH RETROREFLECTIVE WHITE SLEEVES FOR NIGHT CLOSURES. (SEE SECTION 6-6F.59 OF THE CAMUTCD)
7. THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL TO THE SPEED LIMIT.
8. W11-1 AND W16-1 REQUIRED ONLY WHEN TAPER CROSSES A MARKED BICYCLE LANE.

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	DWG #
TYPICAL TRAFFIC CONTROL LANE CLOSURE/TRANSITION	3-37
SCALE: NONE DATE: AUGUST 2015 DRAWN BY: J. PINKHAM	



PLASTIC EXPANSION CAP SHALL BE INSTALLED DURING CONCRETE POUR, THEN REMOVED AFTER CONCRETE HAS CURED A MINIMUM OF 24 HOURS. THEN APPLY JOINT SEALANT TO JOINT.
 ***SNAP CAPS REQUIRED ON SIDEWALK ONLY, NOT IN CURB OR CURB AND GUTTER.

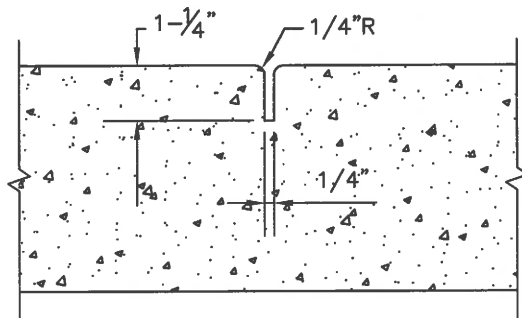


EXPANSION JOINT
AT 20' O.C. MAX

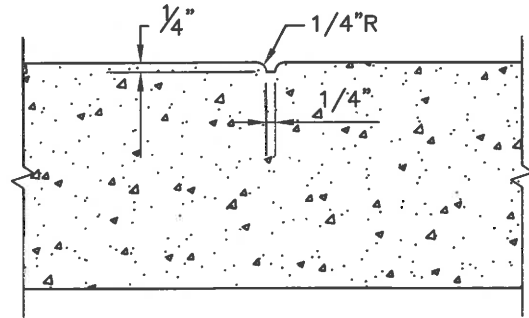
#4 DOWELS AT 24" O.C. DRILL HOLE AND SET DOWEL WITH EPOXY. SIMPSON SET 22 OR EQUAL. GREASE OTHER END.

SIDEWALK CONTACT JOINT

USE WHERE NEW CONSTRUCTION OF SIDEWALK, RAMP, AND/OR CURB AND GUTTER ABUTS EXISTING IMPROVEMENTS.



WEAKENED PLANE JOINT
AT 10' O.C. MAX



SCORE MARK


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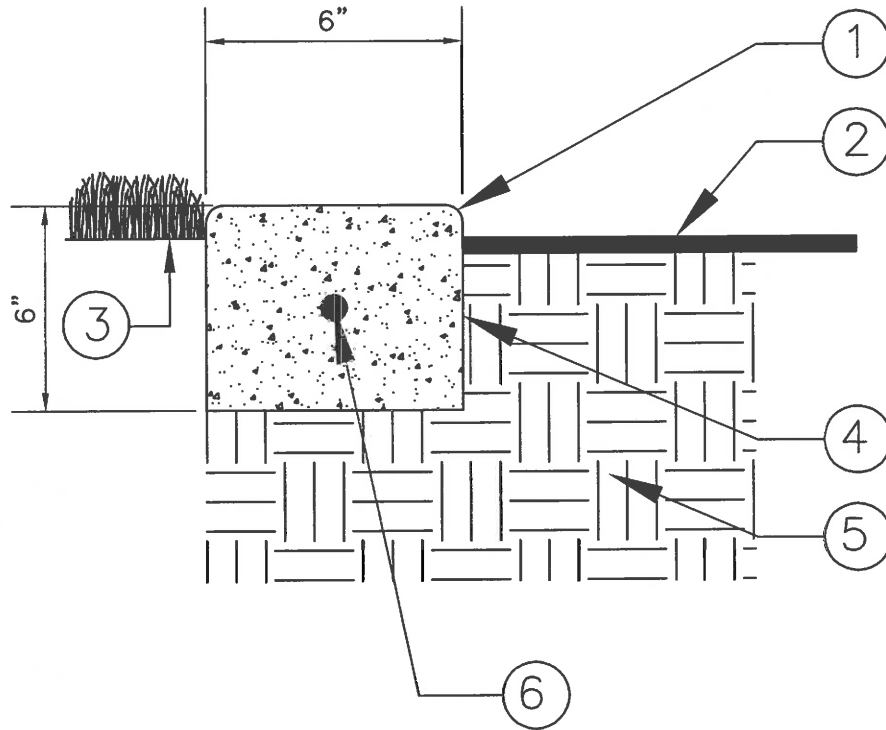

 DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
 ENGINEERING DIVISION

STANDARD CONCRETE
 JOINT DETAILS

SCALE: NONE
 DATE: MAY 2016
 DRAWN BY: J. PINKHAM

DWG #
 3-39



LEGEND:

1. 4" RADIUS TOOLED EDGE.
2. FINISH GRADE 1" BELOW TOP OF BAND FOR TURF AND 2" BELOW TOP OF BAND FOR SHRUBS AND/OR GROUND COVER.
3. FINISH GRADE IN SHRUB AREA
4. 6"X6" CONCRETE MOW BAND.
5. COMPACTED SUB-GRADE TO 90%.
6. #4 REBAR, CONTINUOUS WITH 18" OVERLAP MINIMUM

NOTE:

- A. PROVIDE EXPANSION JOINTS AT 20" ON CENTER


DRAWING APPROVED – CITY ENGINEER

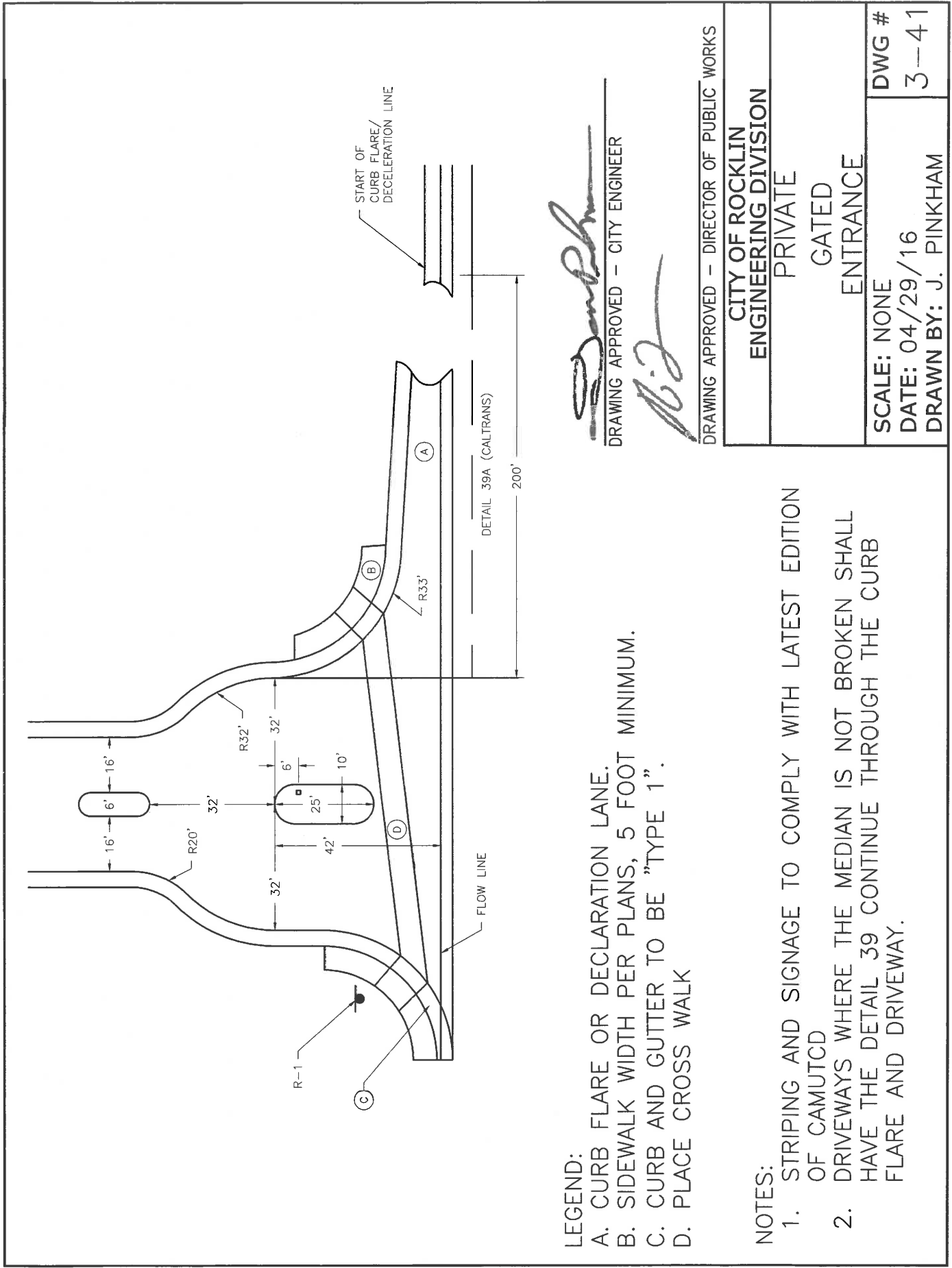

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION

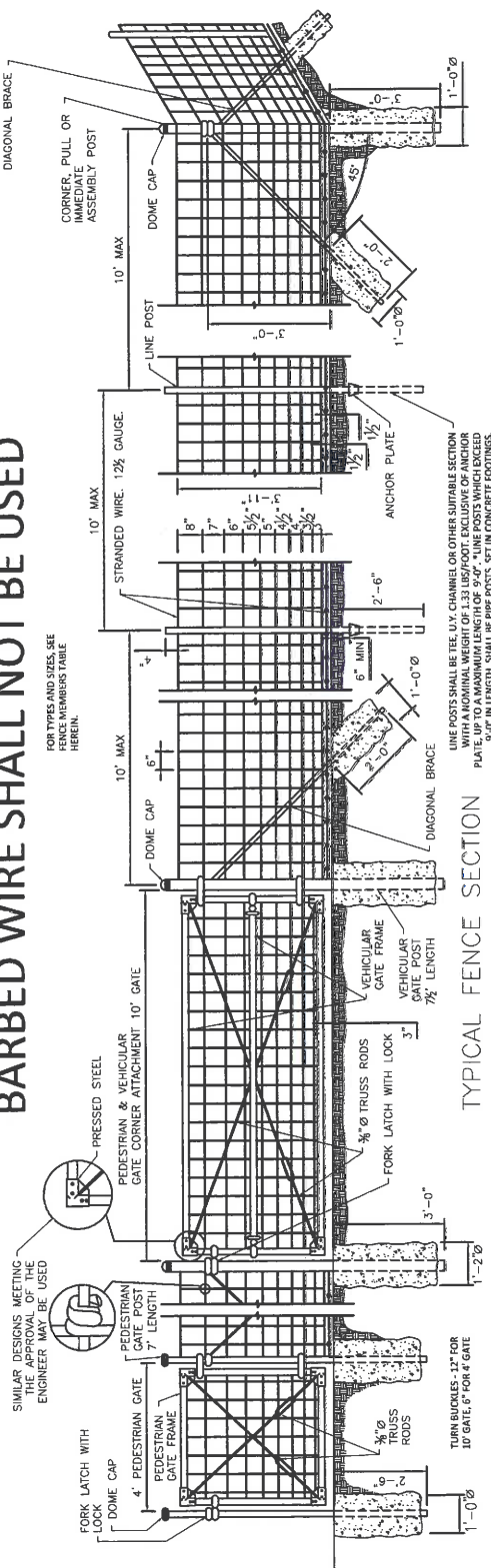
MOW BAND

SCALE: NONE
DATE: MAY 2016
DRAWN BY: J. PINKHAM

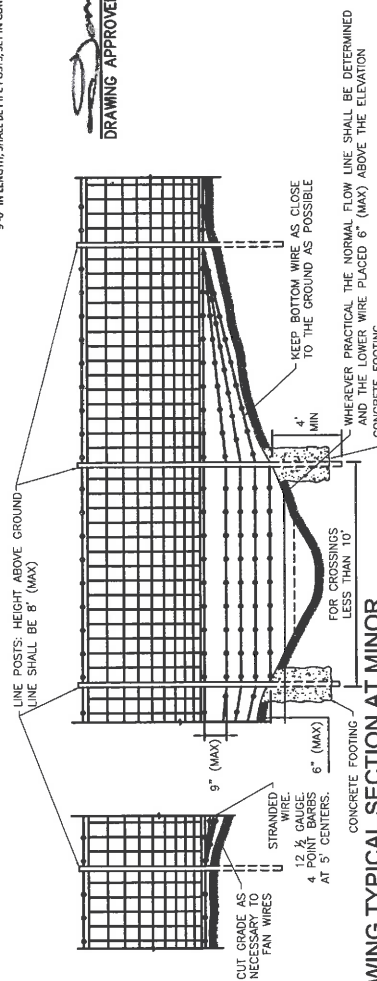
DWG #
3-40



BARBED WIRE SHALL NOT BE USED



TYPICAL FENCE SECTION



DETAIL SHOWING TYPICAL SECTION AT MINOR DEPRESSIONS AND WET WEATHER CROSSINGS

NOTES

- Except for "normal length" line posts, all other posts and their diagonal braces shall be either galvanized steel pipe members or triple-coated steel pipe members as shown in the "Fence Members Table" herein. When galvanized pipe posts are used, galvanized pipe diagonal braces shall be used. When triple-coated pipe posts are used, triple-coated pipe diagonal braces shall be employed. Gate frames may be either galvanized pipe members or triple-coated pipe members. All other metal components of gates shall be galvanized, with the exception of die-cast aluminum corner fittings, pressed steel corner fittings. Unless otherwise specified, or directed by the Engineer, the farm field may be installed with the fence fabric and barbed wire positioned on either side of the fence posts.
- In lieu of the barbed wire detailed herein, the following additional types are acceptable, provided they retain the "4-point barb at 5-inch centers" requirement and provided they meet or exceed the strength and coating requirements for the stranded, 12 1/2 gauge, barbed wire as called for in 712.10 of the specifications:
- (a) stranded, 15 1/2 gauge, high carbon steel barbed wire.
 - (b) one-strand, 12 gauge, steel barbed wire. Dome caps for end, corner gate, line or pulposts, shall be swage fitted or securely attached to the posts by means of set screws, pins or rivets.
- Hardware and miscellaneous fittings, not specifically designated herein as to type or dimensions, shall conform to the applicable requirements of 608 of the Specifications and shall be a good quality commercial design acceptable to the Engineer. Drainage structure terminal installations shall be installed as called for on the Plans and/or as shown on typical fence details. Dumped rock channel protection shall be used at channel crossing when called for on the Plans. Type FW-4-S Nicopress Oval Sleeve, Wire Splices, or other equal sleeve splices approved by the Engineer, may be used in lieu of the "Typical Wire Fence Splice" shown herein.
- (3'-11" FENCE FABRIC HEIGHT)

DRAWING APPROVED - CITY ENGINEER
D. J. Smith

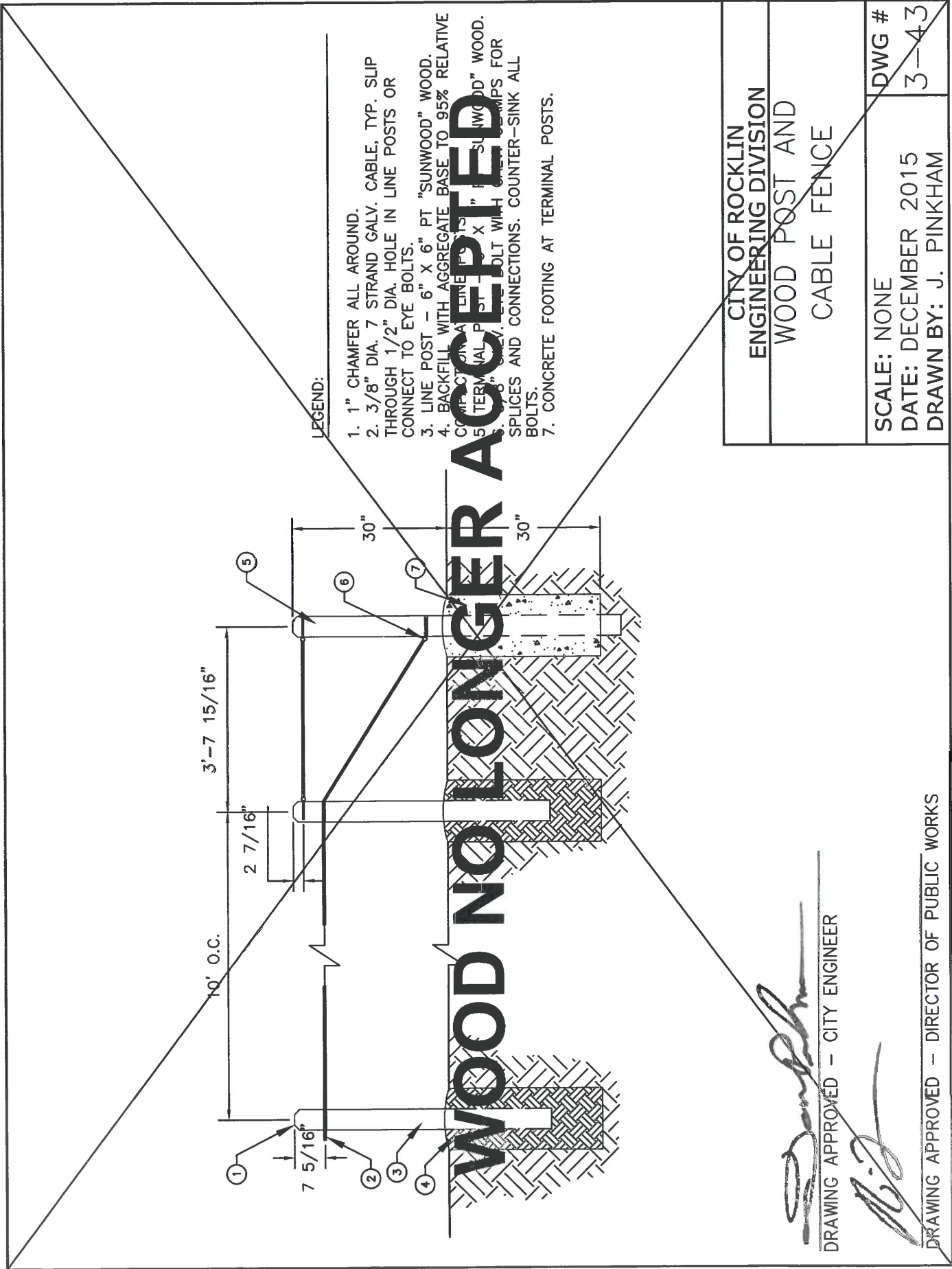
DRAWING APPROVED - DIRECTOR OF PUBLIC WORKS
M. J. [Signature]

FENCE MEMBERS TABLE

Member Designation	Galvanized Pipe			Triple-Coated Pipe		
	I.D. In.	Wall Thk. In.	Wt. lb/ft.	I.D. In.	Wall Thk. In.	Wt. lb/ft. (min.)
End, Pull, Corner and Intermediate Assembly Post	2	0.154	3.65	2	0.13	3.11
Diagonal Brace	1.25	0.14	2.27	1.25	0.111	1.83
Pedestrian Gate Post	2	0.154	3.65	2	0.13	3.11
Pedestrian Gate Frame	1	0.133	1.68	1	0.104	1.34
Vehicular Gate Post	3.5	0.226	9.11	-	-	-
Vehicular Gate Frame	1.5	0.145	2.72	1.5	0.12	2.28
Special Length Line Post (For over 9'-0")	2	0.154	3.65	2	0.13	3.11

CITY OF ROCKLIN
ENGINEERING DIVISION
RW FENCE-FARM
WITH STEEL POSTS

SCALE: NONE
DATE: 03/09/2016
DRAWN BY: J. PINKHAM
DWG # 3-42

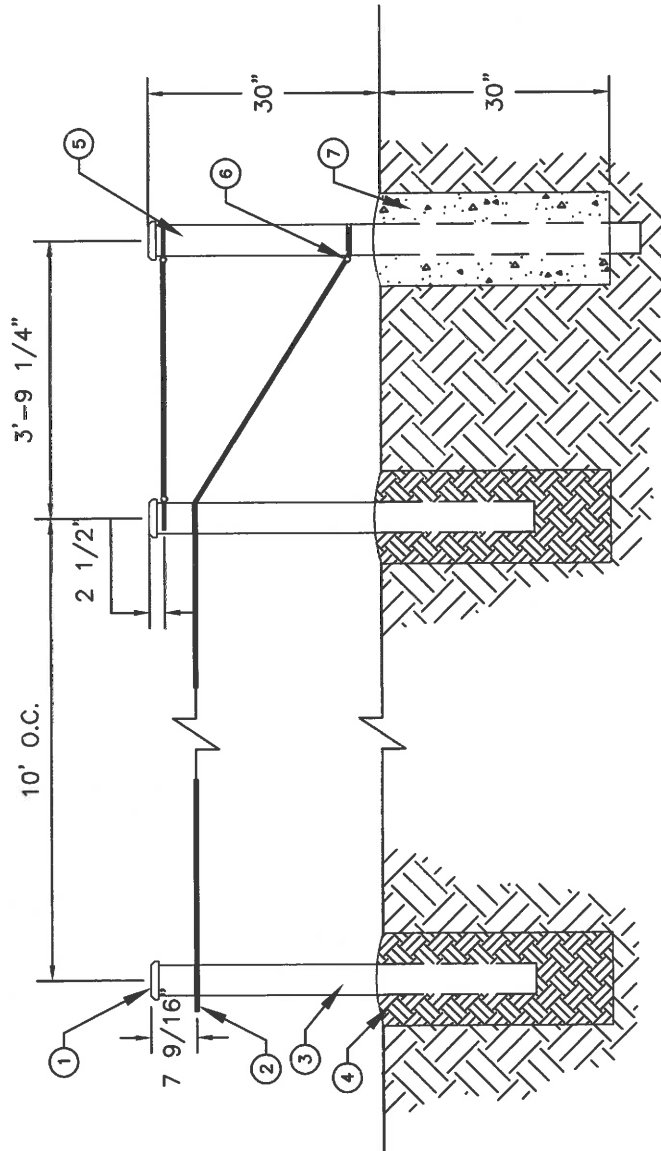


WOOD NO LONGER ACCEPTED

CITY OF ROCKLIN ENGINEERING DIVISION	
WOOD POST AND CABLE FENCE	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 3-43

[Signature]
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LEGEND:

1. PRESSED STEEL CAP
2. 3/8" DIA. 7 STRAND GALV. CABLE, TYP. SLIP THROUGH 1/2" DIA. HOLE IN LINE POSTS OR CONNECT TO EYE BOLTS.
3. LINE POST - 4" X 4" POWDERCOATED TUBULAR STEEL (COLOR TO BE DETERMINED BY STAFF.)
4. BACKFILL WITH AGGREGATE BASE TO 95% RELATIVE COMPACTION AT LINE POSTS.
5. TERMINAL POST - 4" X 4" POWDERCOATED TUBULAR STEEL (COLOR TO BE DETERMINED BY STAFF.)
6. 3/8" GALV. EYE BOLT WITH GALV. CLAMPS FOR SPLICES AND CONNECTIONS.
7. CONCRETE FOOTING AT TERMINAL POSTS AND EVERY 10TH LINE POST.

CITY OF ROCKLIN
ENGINEERING DIVISION

TUBULAR STEEL

POST AND CABLE FENCE

SCALE: NONE


DATE: DECEMBER 2015

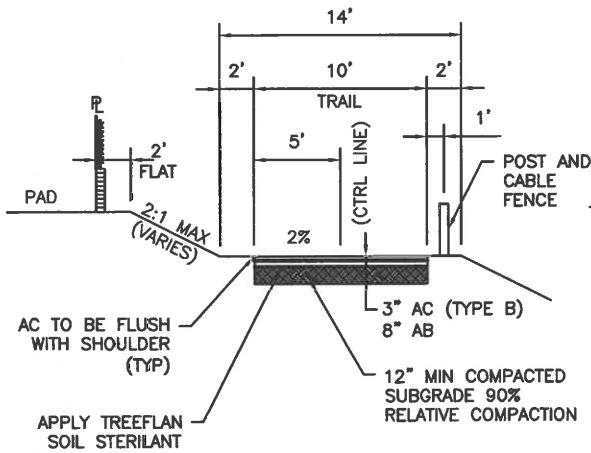
DRAWN BY: J. PINKHAM

DWG #

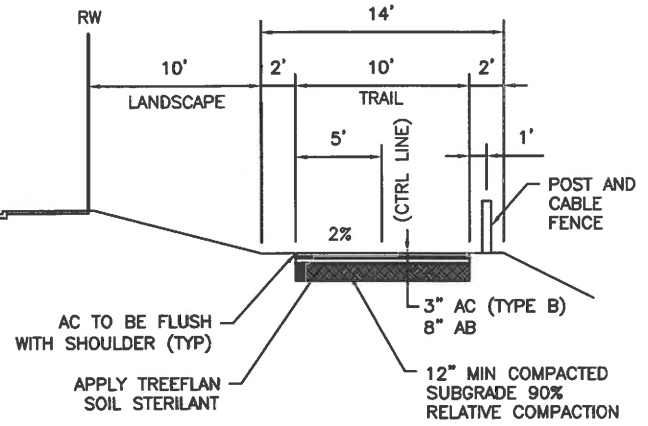
3-44


DRAWING APPROVED – CITY ENGINEER

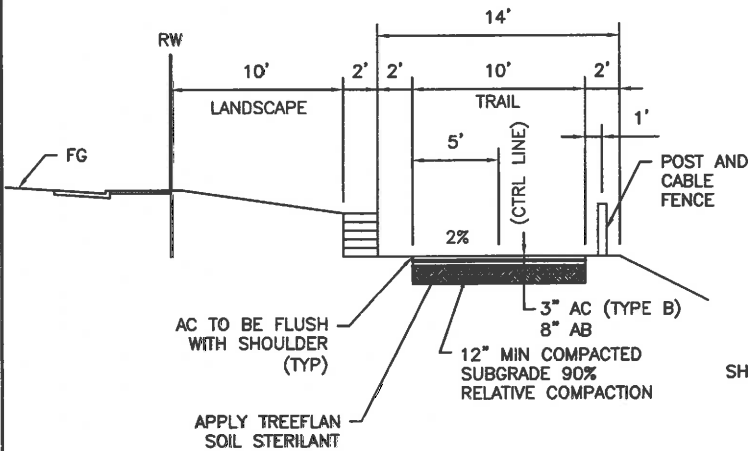

DRAWING APPROVED - DIRECTOR OF PUBLIC WORKS



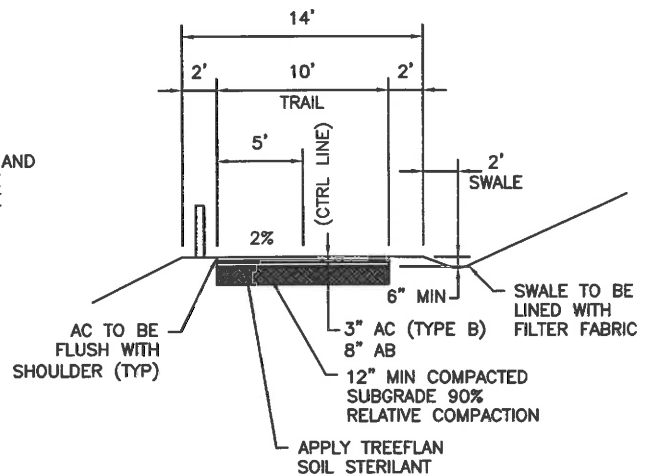
SECTION H
NTS



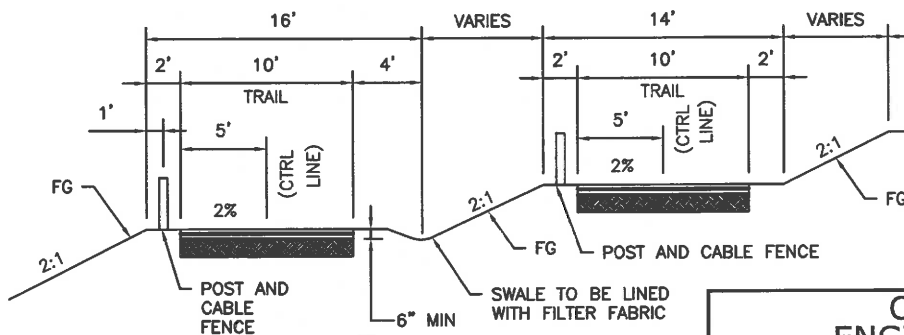
SECTION I
NTS



SECTION J
NTS



SECTION K
NTS



SECTION L
NTS

[Signature]
DRAWING APPROVED - CITY ENGINEER

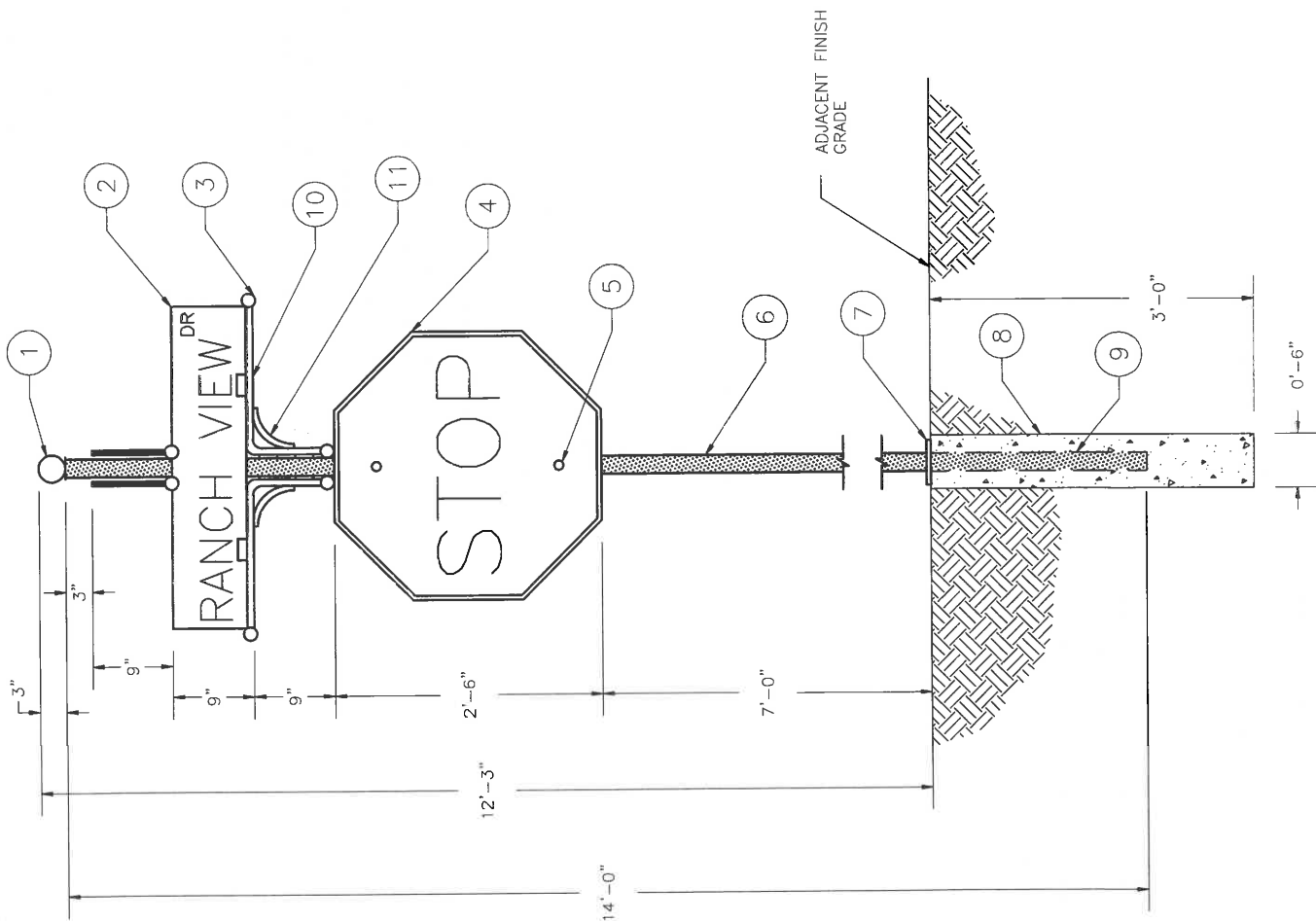
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DRAWING APPROVED - DIRECTOR OF PUBLIC WORKS

CITY OF ROCKLIN
ENGINEERING DIVISION

AC
PEDESTRIAN
TRAIL

SCALE: NONE
DATE: DECEMBER 2015
DRAWN BY: J. PINKHAM

DWG #
3-45



NOTES:

1. 3" DIAMETER-10 GAUGE BALL WELDED TO 2" X 2" X 16" GAUGE PRESS STEEL CAP
 2. CITY OF ROCKLIN STANDARD SIGN BLADE (8" X 36" W/ 6" HIGH, SERIES D UPPERCASE LETTERS, HIGHWAY FONT). IN THE EVENT THE STREET NAME IS TOO LONG FOR A 36" LONG SIGN, THE NEXT LOWER SERIES TEXT (SERIES C OR B) CAN BE USED.
 3. 1 1/2" DIAMETER BALL-TYPICAL
 4. STANDARD R1 STOP SIGN (30" X 30") WITH 7" CLEARANCE TO BOTTOM OF SIGN AND THE ADJACENT FINISH GRADE PER MUTCD.
 5. ATTACH WITH RIVETS
 6. 2" X 14' 12-GAUGE SQ. POST (NO HOLES) POWDER COATED BLACK W/BREAK-A-WAY BASE.
 7. BREAK AWAY BOLT PER CITY OF ROCKLIN SPECIFICATIONS.
 8. 36" DEEP (6"Ø) CONCRETE POST BASE W/27" MIN. SLEEVE. SLEEVE TO BE EMBEDDED 24" PER CITY OF ROCKLIN DETAIL 3-28
 9. SLEEVE TO RECEIVE 2" SQUARE POST.
 10. 3/4"Ø X 24-7/16" LONG ROD.
 11. 1/2"Ø X 7-11/16" LONG ROD.
- FINISH NOTE:
THE ITEMS SPECIFIED IN NOTES 1, 3, 6, 10 AND 11 SHALL BE POWDER COATED BLACK.
- DECORATIVE STEEL BALL SPECS:
MFG: KING ARCHITECTURAL 3" DIAMETER 10 GAUGE BALL
CATALOG #13-30HBL
1-1/2" DIAMETER 10 GAUGE BALL CATALOG #13-112

[Signature]
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DRAWING APPROVED - DIRECTOR OF PUBLIC WORKS

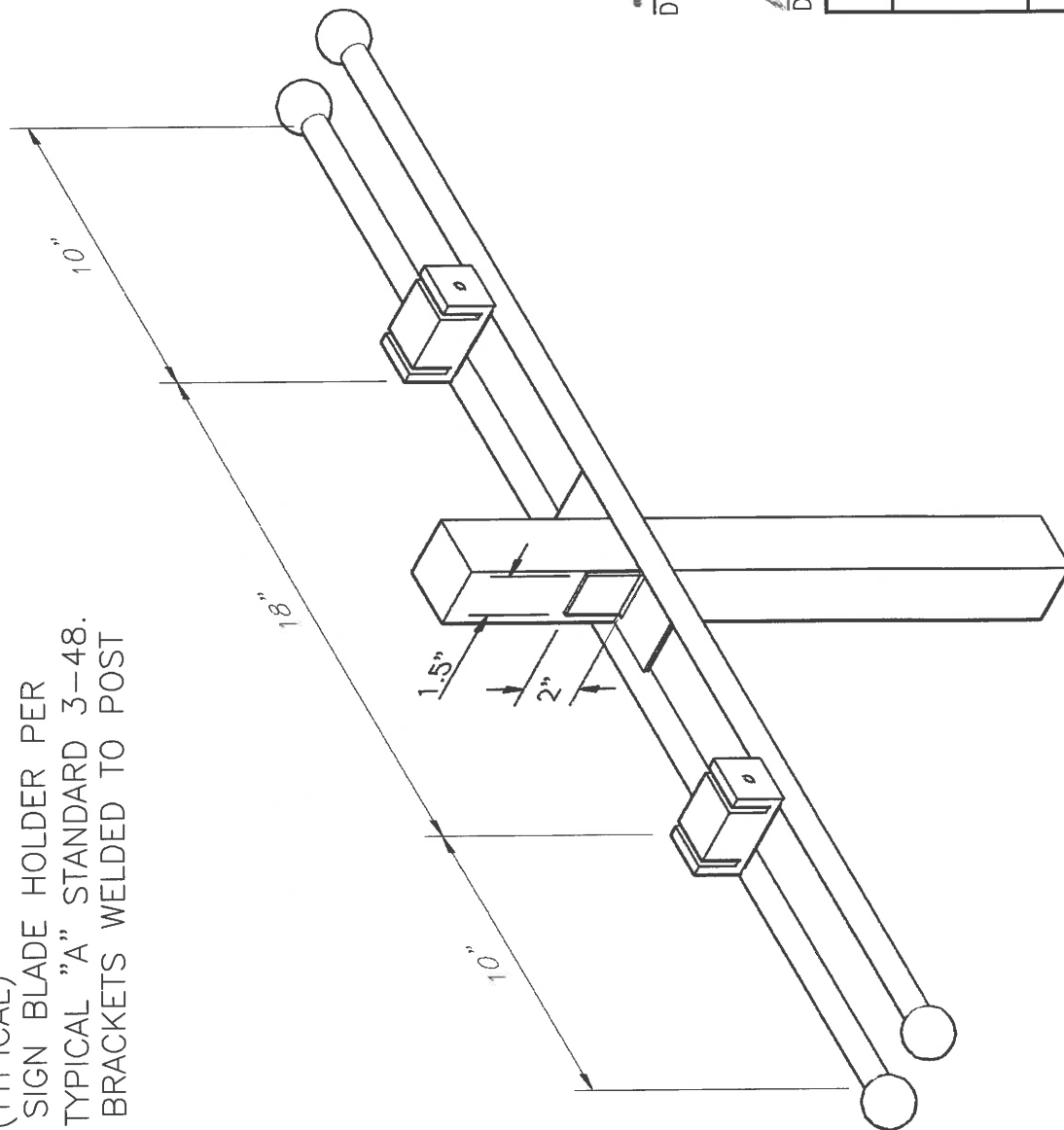
CITY OF ROCKLIN
ENGINEERING DIVISION

OVERALL SIGN
CONFIGURATION
FRONT VIEW

SCALE: NONE	DWG #
DATE: 05/03/16	3-46
DRAWN BY: J.PINKHAM	

NOTES:

- 1: 1-1/2" DIAMETER STEEL BALL (TYP.) 10 GAUGE
- 2: 3/4" DIAMETER ROD (TYPICAL)
- 3: SIGN BLADE HOLDER PER TYPICAL "A" STANDARD 3-48.
- 4: BRACKETS WELDED TO POST



FINISH NOTE:
THE ITEMS SPECIFIED IN
NOTES 1-4 SHALL BE
POWDER COATED BLACK.

DECORATIVE STEEL BALL SPECS:
MFG: KING ARCHITECTURAL
3" DIAMETER 10 GAUGE BALL
CATALOG #13-30HBL
1-1/2" DIAMETER 10 GAUGE
BALL CATALOG #13-112

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[Signature]

DRAWING APPROVED - DIRECTOR OF PUBLIC WORKS

CITY OF ROCKLIN
ENGINEERING DIVISION

TOP SIGN

BRACKET

CONFIGURATION

SCALE: NONE

DATE: 05/03/16

DRAWN BY: J.PINKHAM

DWG #

3-47

NOTES:

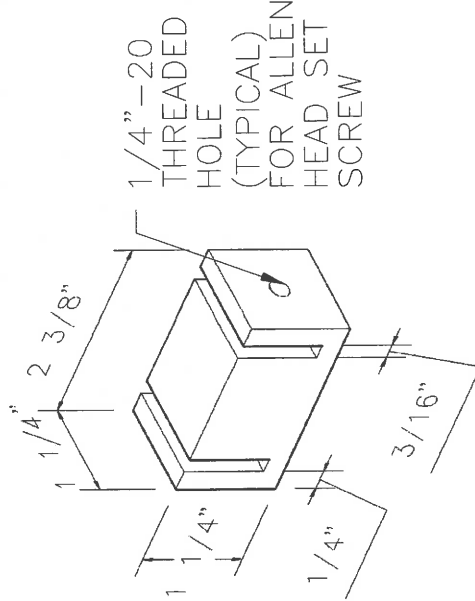
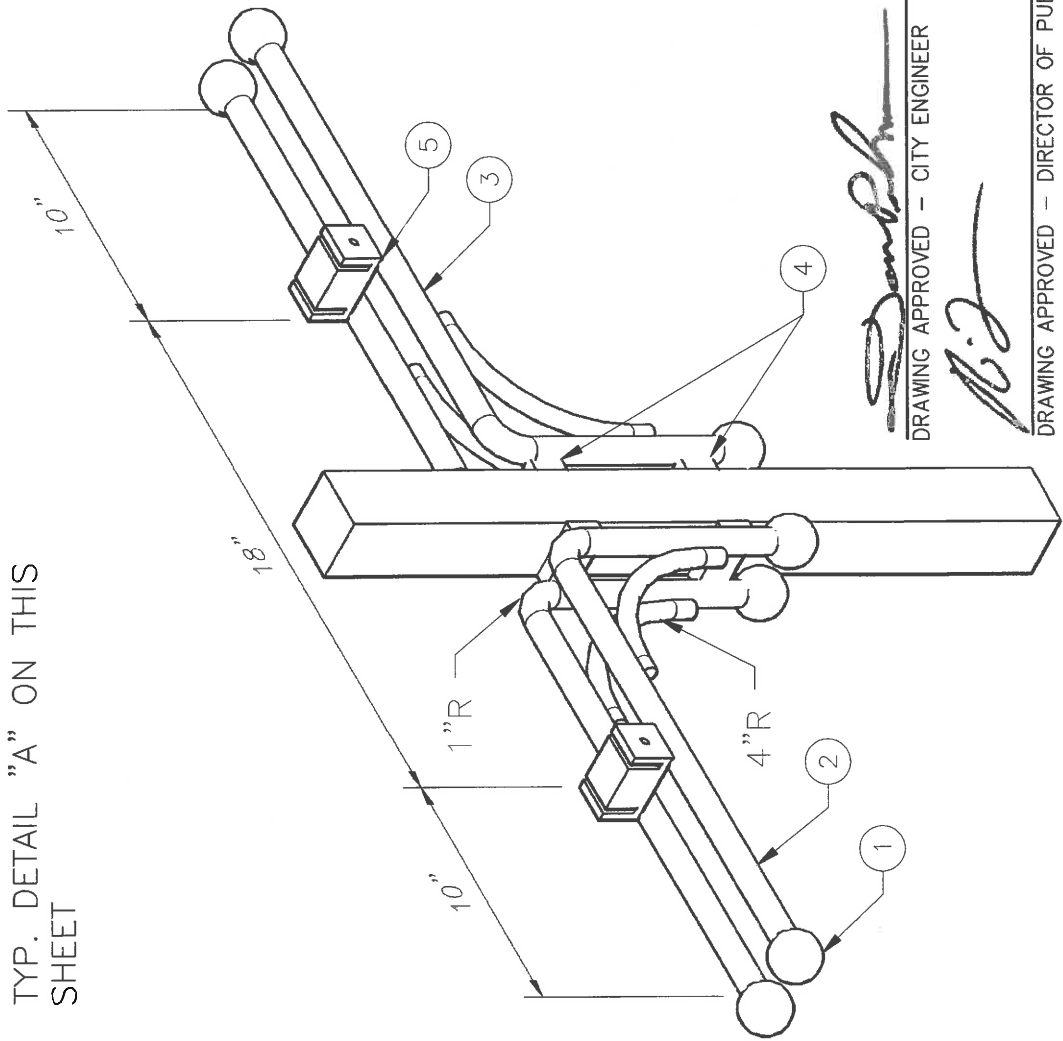
- 1: 1-1/2" DIAMETER STEEL BALL (TYP.) 10 GAUGE
- 2: 3/4" DIAMETER ROD
- 3: 1/2" DIAMETER ROD
- 4: BRACKETS WELDED TO POST
- 5: SIGN BLADE HOLDER PER TYP. DETAIL "A" ON THIS SHEET

DECORATIVE STEEL BALL SPECS:

- MFG: KING ARCHITECTURAL
- 3" DIAMETER 10 GAUGE BALL CATALOG #13-30HBL
- 1-1/2" DIAMETER 10 GAUGE BALL CATALOG #13-112

FINISH NOTE:

THE ITEMS SPECIFIED IN NOTES 1-5 SHALL BE POWDER COATED BLACK.

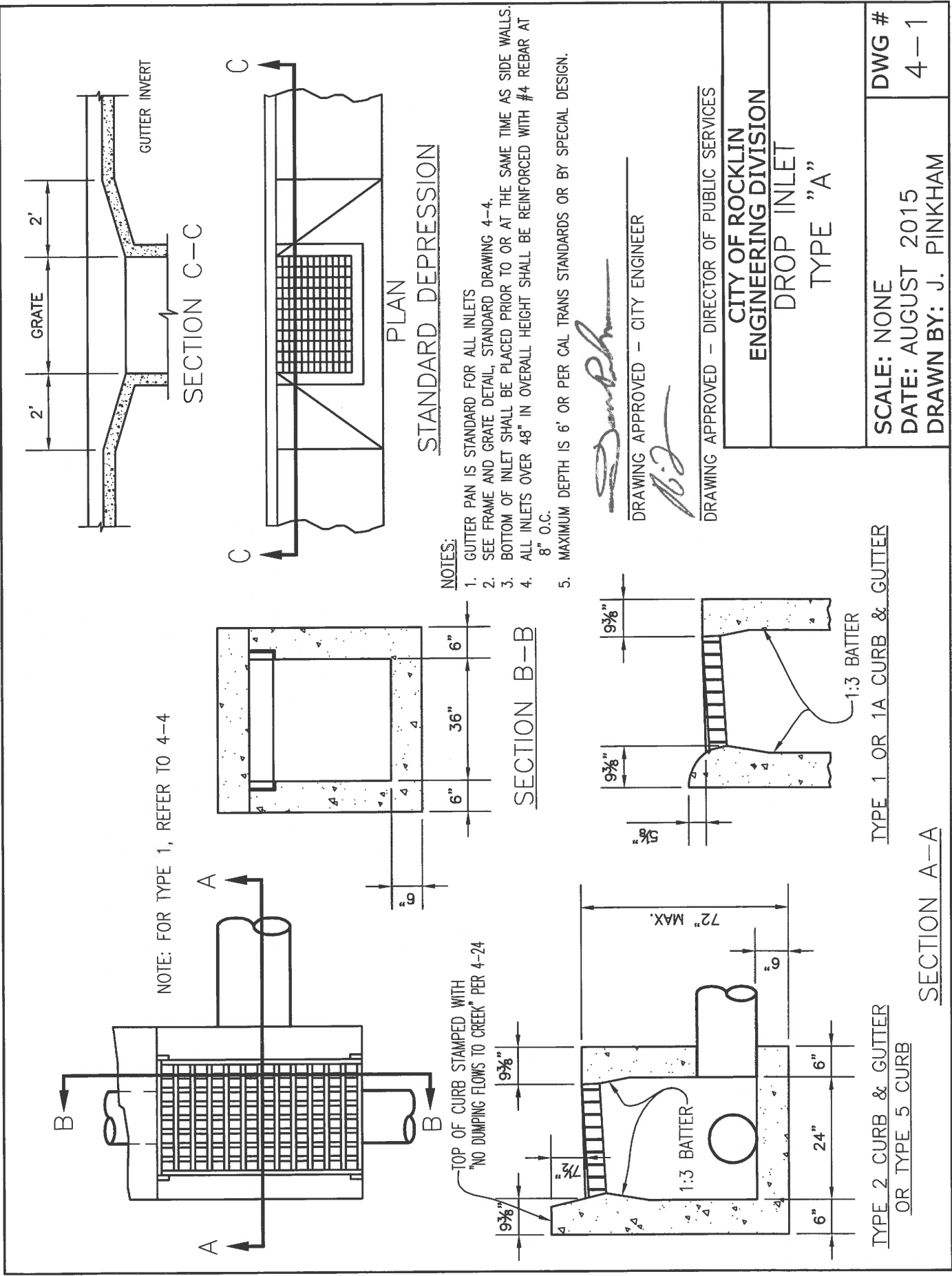


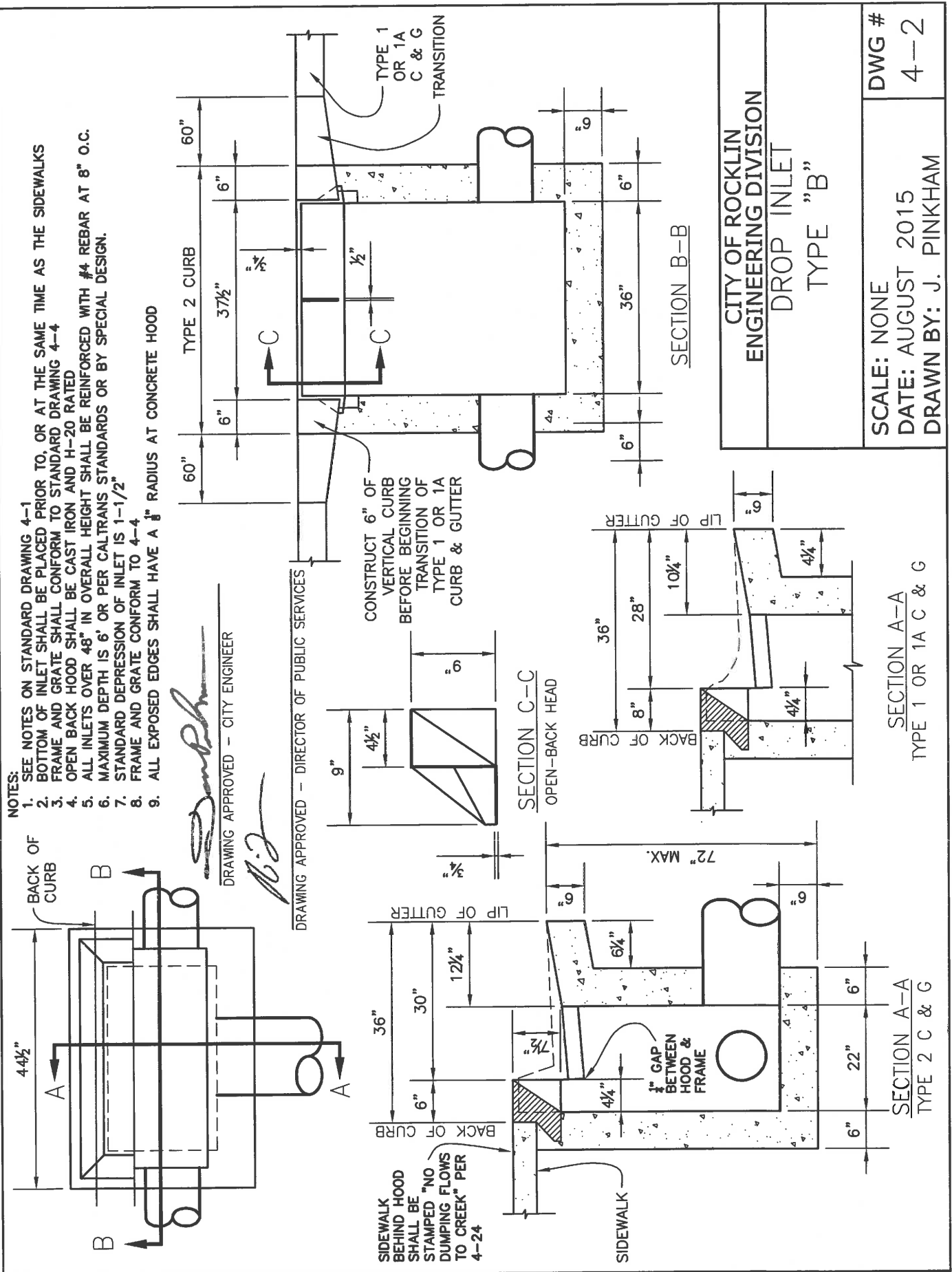
(A) SIGN BLADE HOLDER DETAIL (TYPICAL)

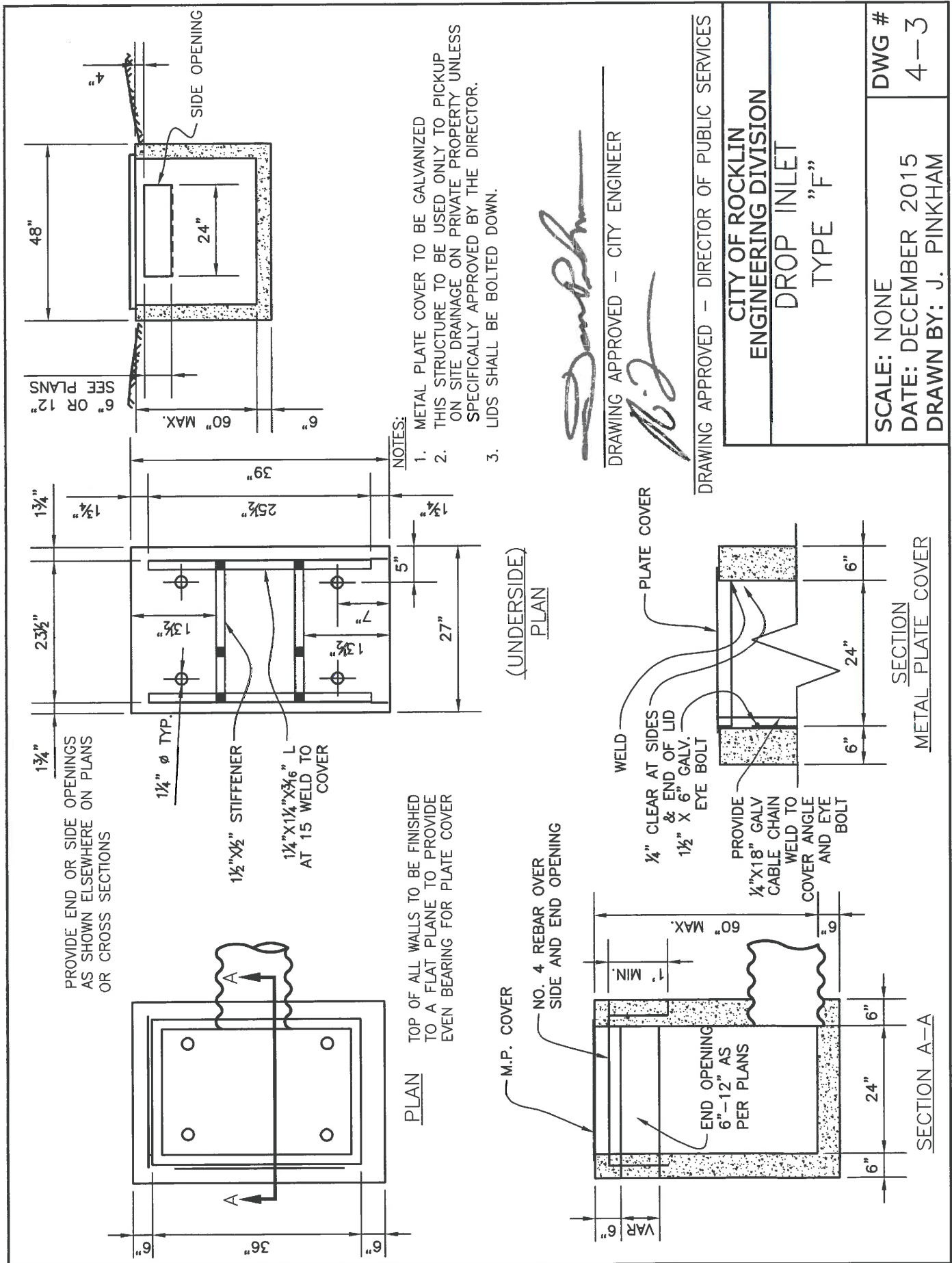
CITY OF ROCKLIN ENGINEERING DIVISION	
BOTTOM SIGN BRACKET CONFIGURATION	
SCALE: NONE	DWG #
DATE: 05/03/16	3-48
DRAWN BY: J.PINKHAM	

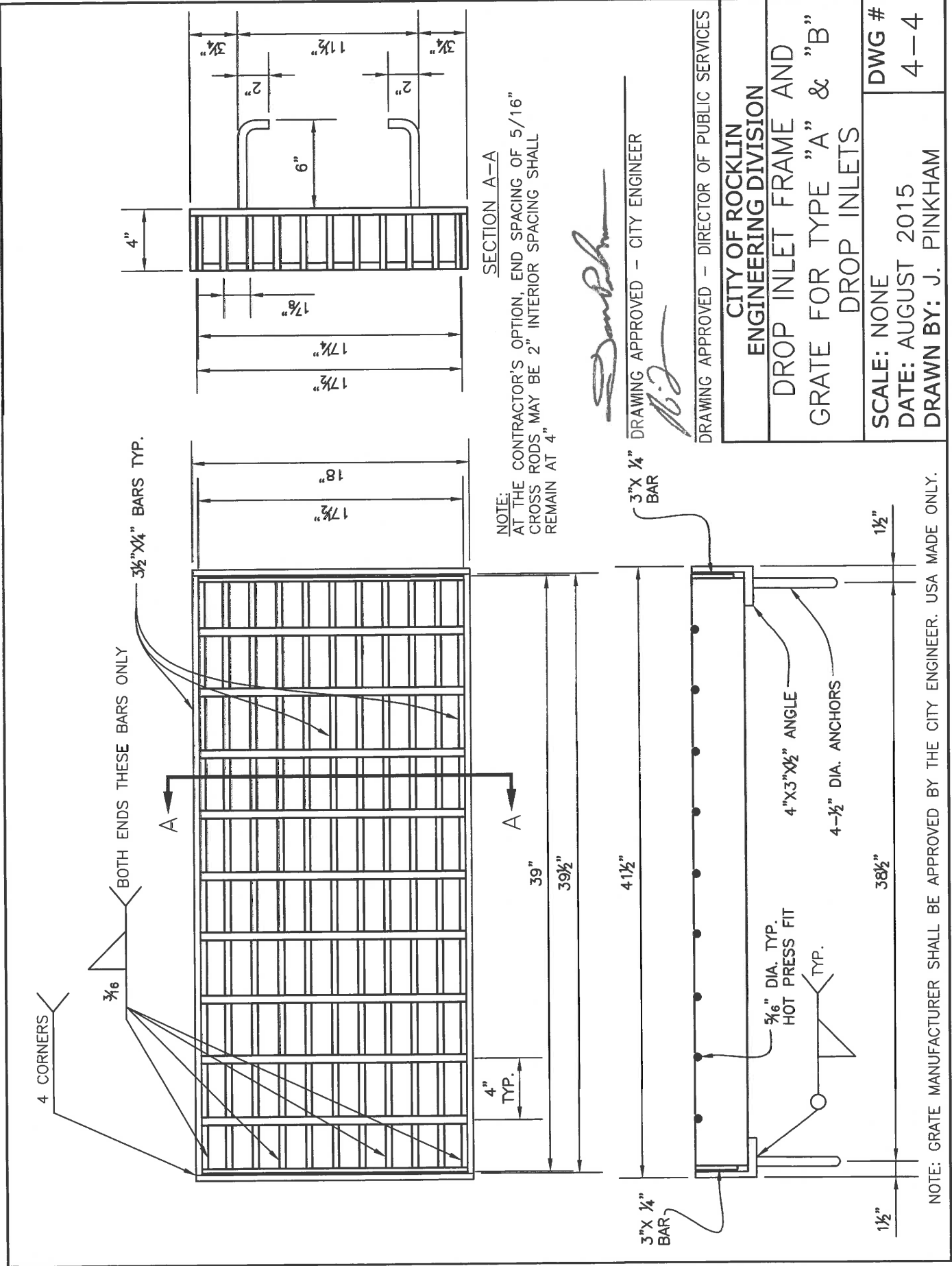
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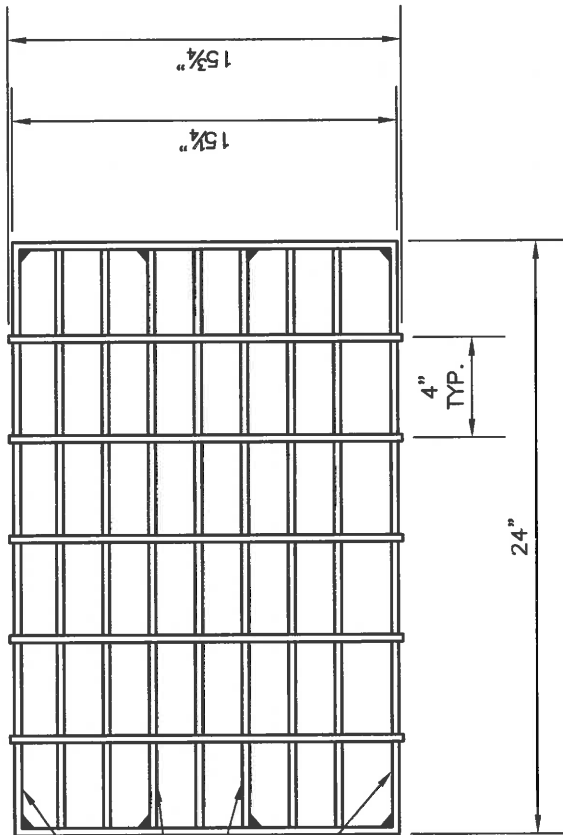
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DRAWING APPROVED - DIRECTOR OF PUBLIC WORKS











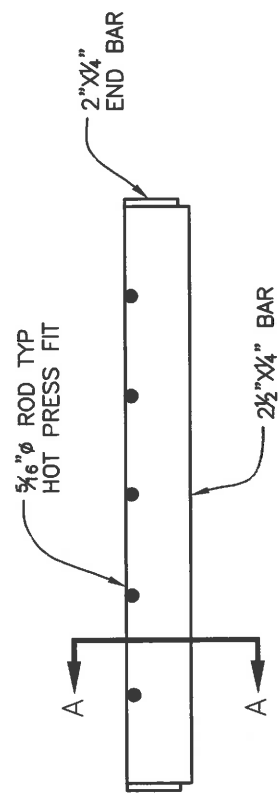
BOTH ENDS
OF THESE
BARS ONLY

3/16"

15 3/4"

4"
TYP.

24"



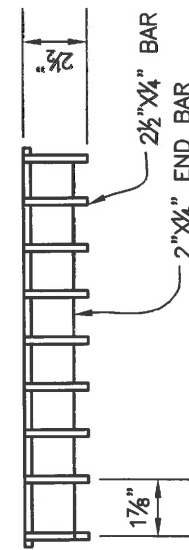
5/16" ϕ ROD TYP
HOT PRESS FIT

2" \times 1/4"
END BAR

2 1/2" \times 1/4"
BAR

A

A




1 7/8"


2 1/2" \times 1/4"
BAR

2" \times 1/4"
END BAR

SECTION A-A

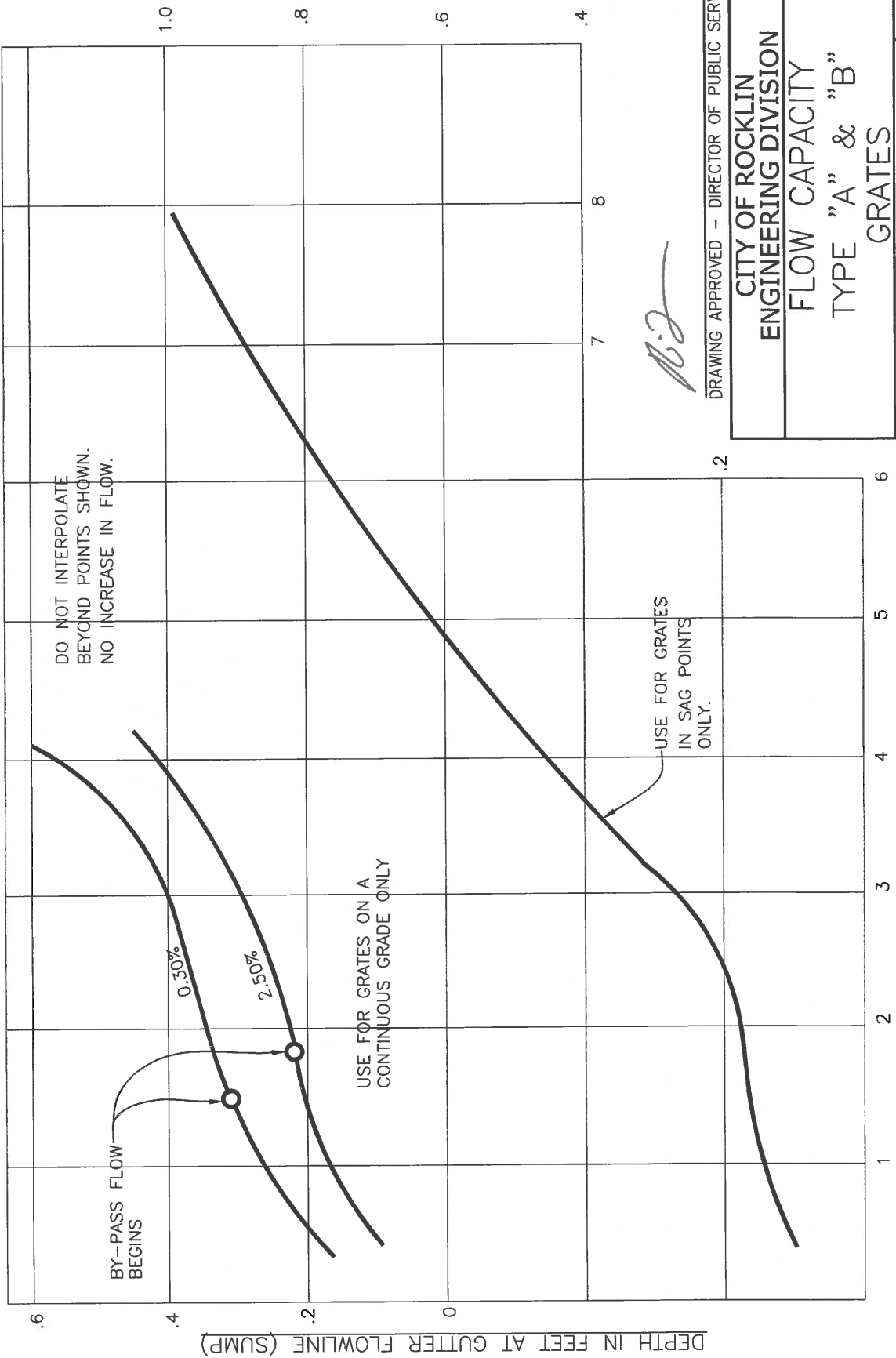
- NOTES:
1. INSTALLED GRATED SHALL BE PERMANENTLY SECURED TO FRAME WITH 12" LENGTH OF GALVANIZED CHAIN.
 2. AT THE CONTRACTOR'S OPTION, END SPACING OF 5/16" CROSS RODS MAY BE 2". INTERIOR SPACING SHALL REMAIN AT 4".


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CITY OF ROCKLIN ENGINEERING DIVISION	DWG # 4-5
DROP INLET GRATE FOR TYPE "F" DROP INLETS	
SCALE: NONE DATE: AUGUST 2015 DRAWN BY: J. PINKHAM	



[Signature]

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

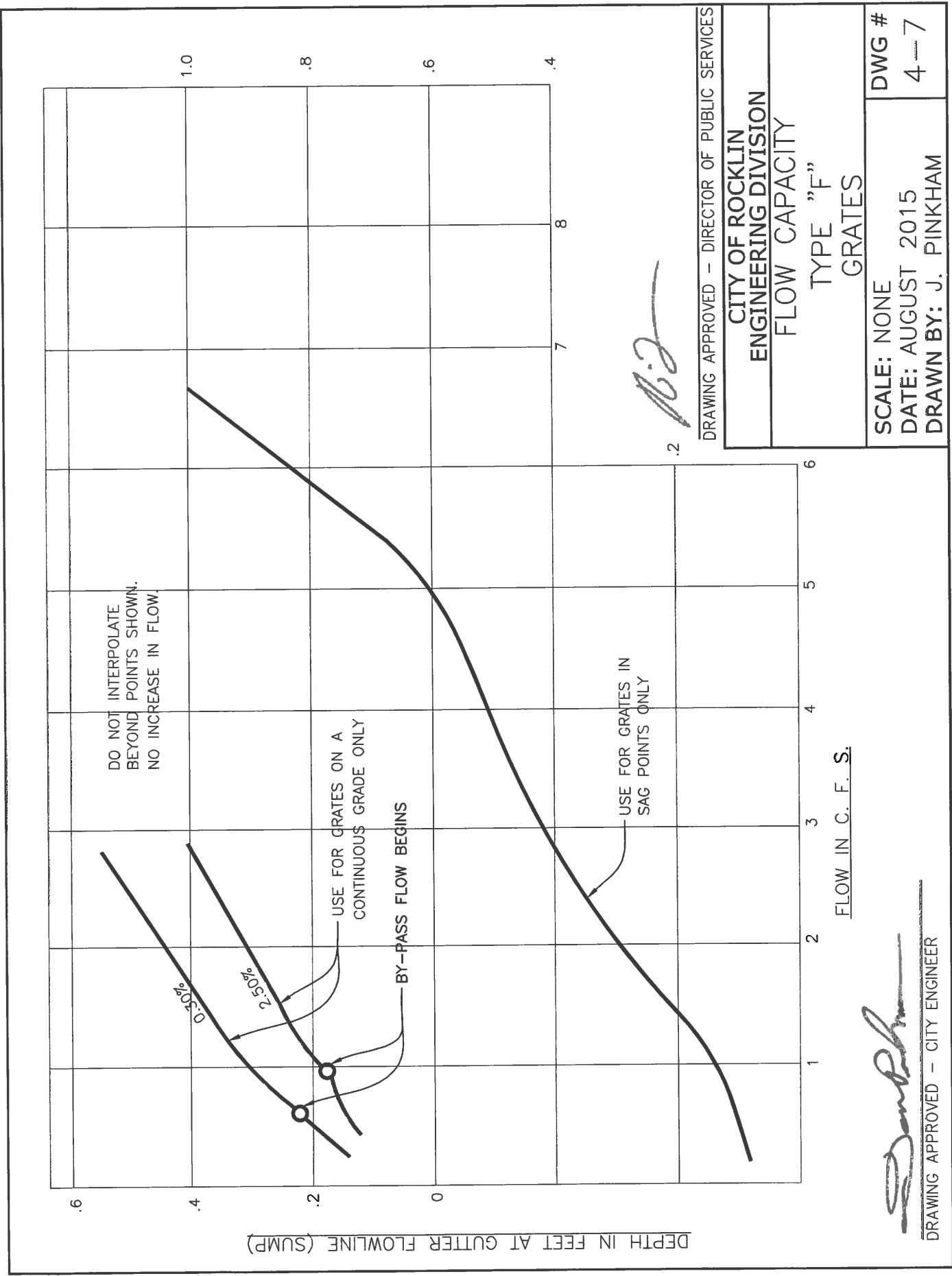
CITY OF ROCKLIN
ENGINEERING DIVISION

FLOW CAPACITY
TYPE "A" & "B"
GRATES

SCALE: NONE	DWG #
DATE: AUGUST 2015	4-6
DRAWN BY: J. PINKHAM	

FLOW IN C. F. S.

[Signature]
DRAWING APPROVED - CITY ENGINEER



J. Pinkham
DRAWING APPROVED - CITY ENGINEER

NOTES:

1. ECCENTRIC CONES SHALL BE USED WHERE SPECIFIED ON THE PLANS
2. JOINTS MAY BE EITHER KEYED OR TONGUE AND GROOVE.

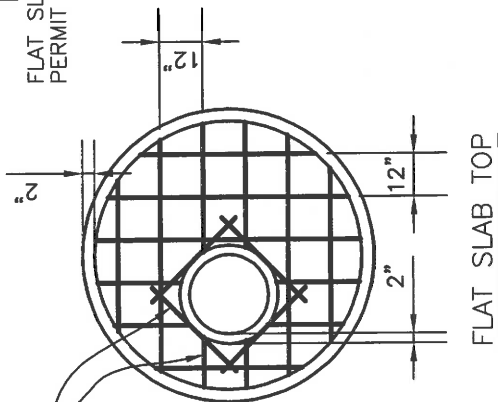
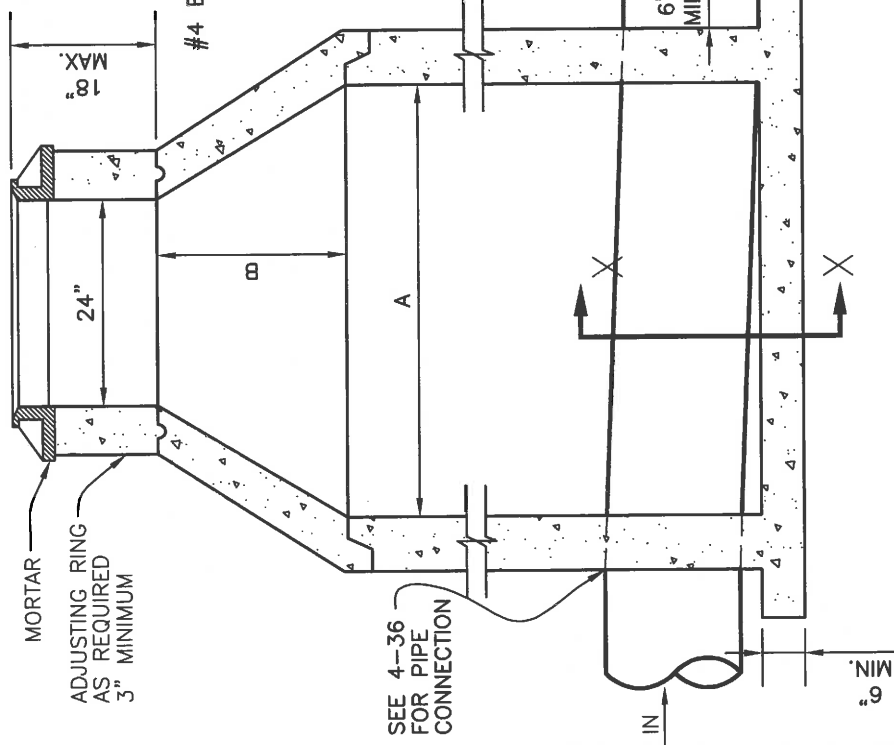
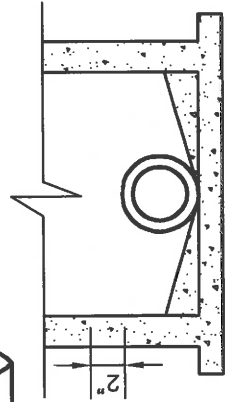
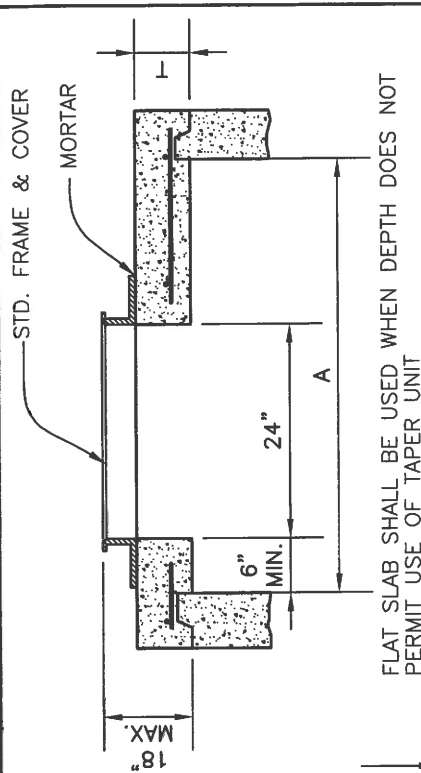


TABLE OF DIMENSIONS

M.H.	A	B	T MIN.
48"	48"	18"	6"
60"	60"	30"	8"
72"	72"	42"	8"

DIMENSION "B" IS A MINIMUM DIMENSION AND MAY BE GREATER IF DEPTH PERMITS. RISER SECTIONS, CONES, AND ADJUSTING RINGS SHALL CONFORM TO ASTM DESIGNATION C-478

FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR



CITY OF ROCKLIN
ENGINEERING DIVISION
STANDARD
PRECAST DRAINAGE
MANHOLE

SCALE: NONE
DATE: AUGUST 2015
DRAWN BY: J. PINKHAM

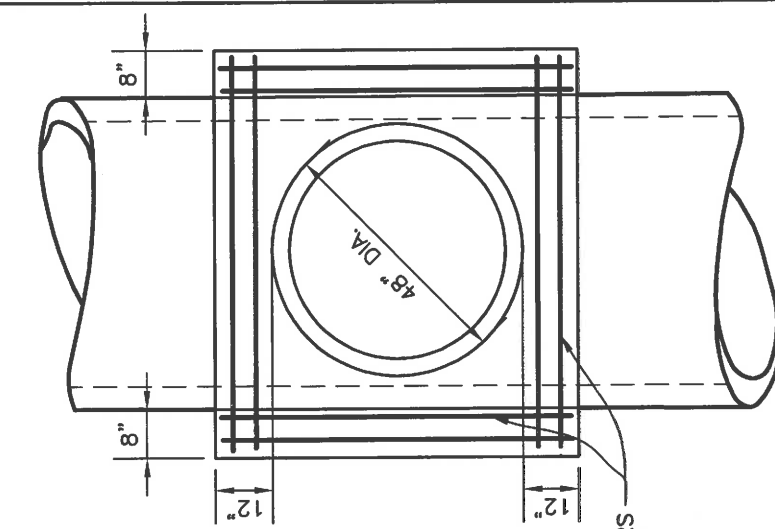
DWG #
4-8

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DRAWING APPROVED - CITY ENGINEER



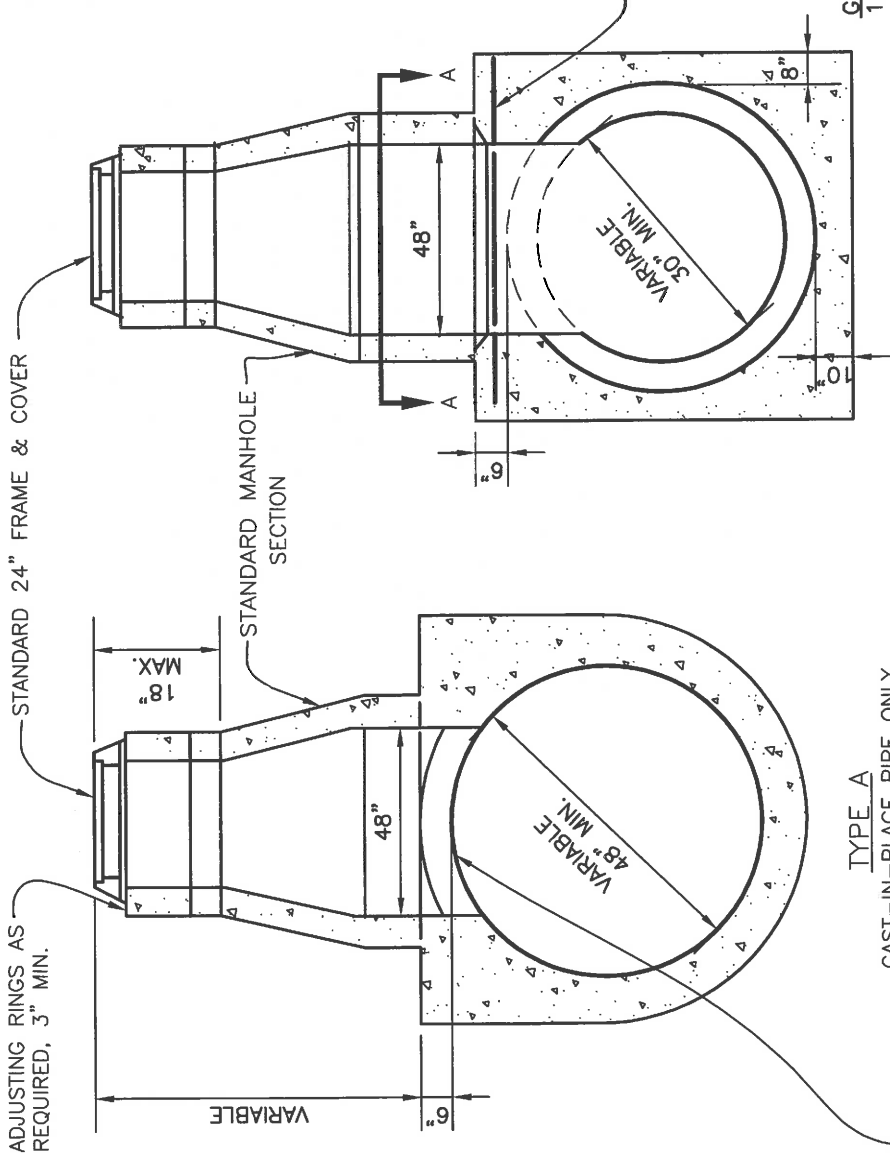
SECTION A-A

- GENERAL NOTES:
1. ECCENTRIC CONES SHALL BE USED WHERE SPECIFIED ON THE PLANS.
 2. JOINTS MAY BE EITHER KEYED OR TONGUE AND GROOVED.

CITY OF ROCKLIN
ENGINEERING DIVISION
TYPE "A" & "B"

SADDLE
MANHOLE

SCALE: NONE	DWG #
DATE: AUGUST 2015	4-9
DRAWN BY: J. PINKHAM	



TYPE B

1. ALL PIPE OTHER THAN CAST-IN-PLACE PIPE
2. CAST-IN-PLACE PIPE LESS THAN 48" DIA.

TYPE A

CAST-IN-PLACE PIPE ONLY

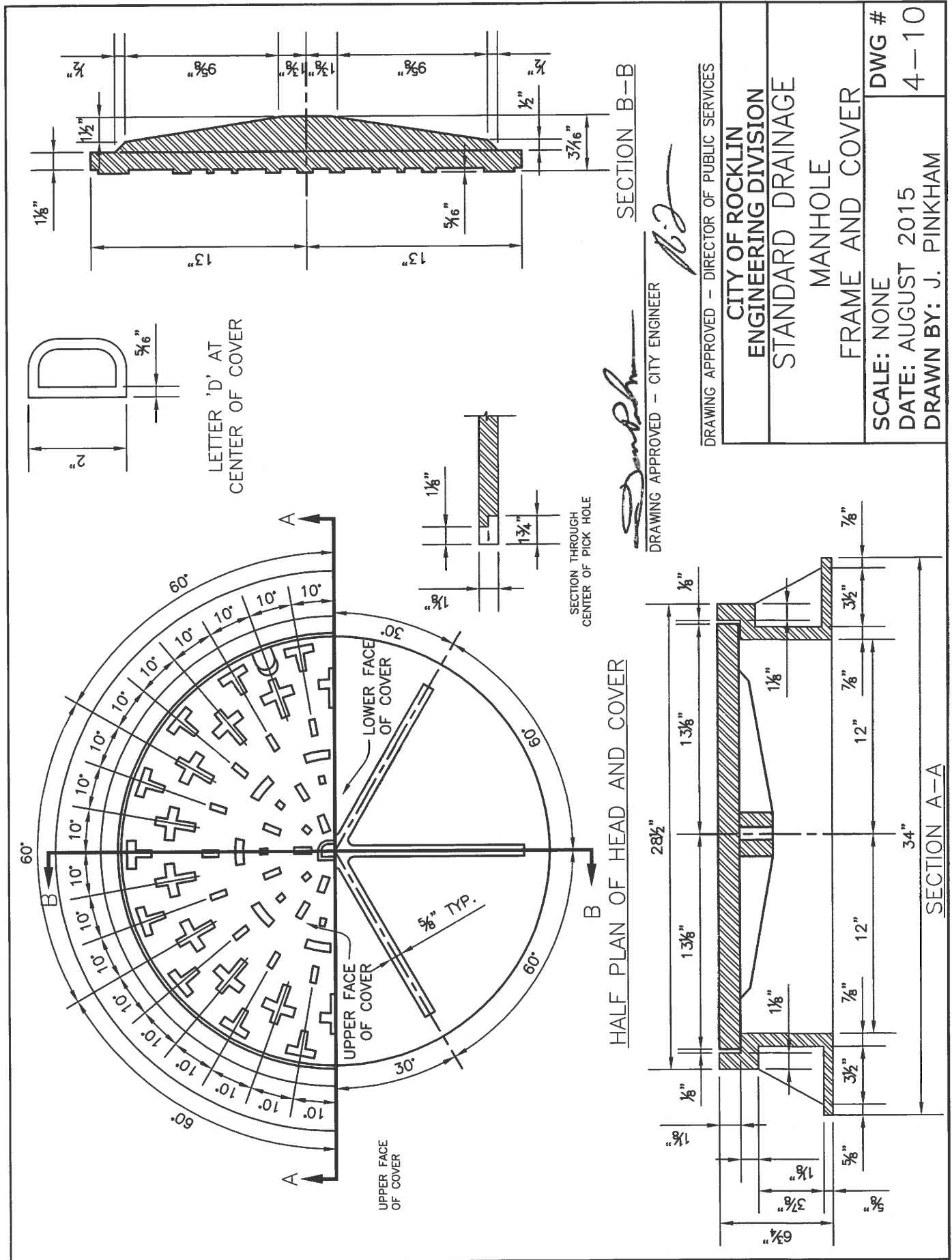
NOTE:
REMOVE CONCRETE IN MANHOLE OPENING AND CONSTRUCTION RISER BASE WHILE CONCRETE IS STILL FRESH
PLACE RISER SECTION AFTER CONCRETE HAS SET.

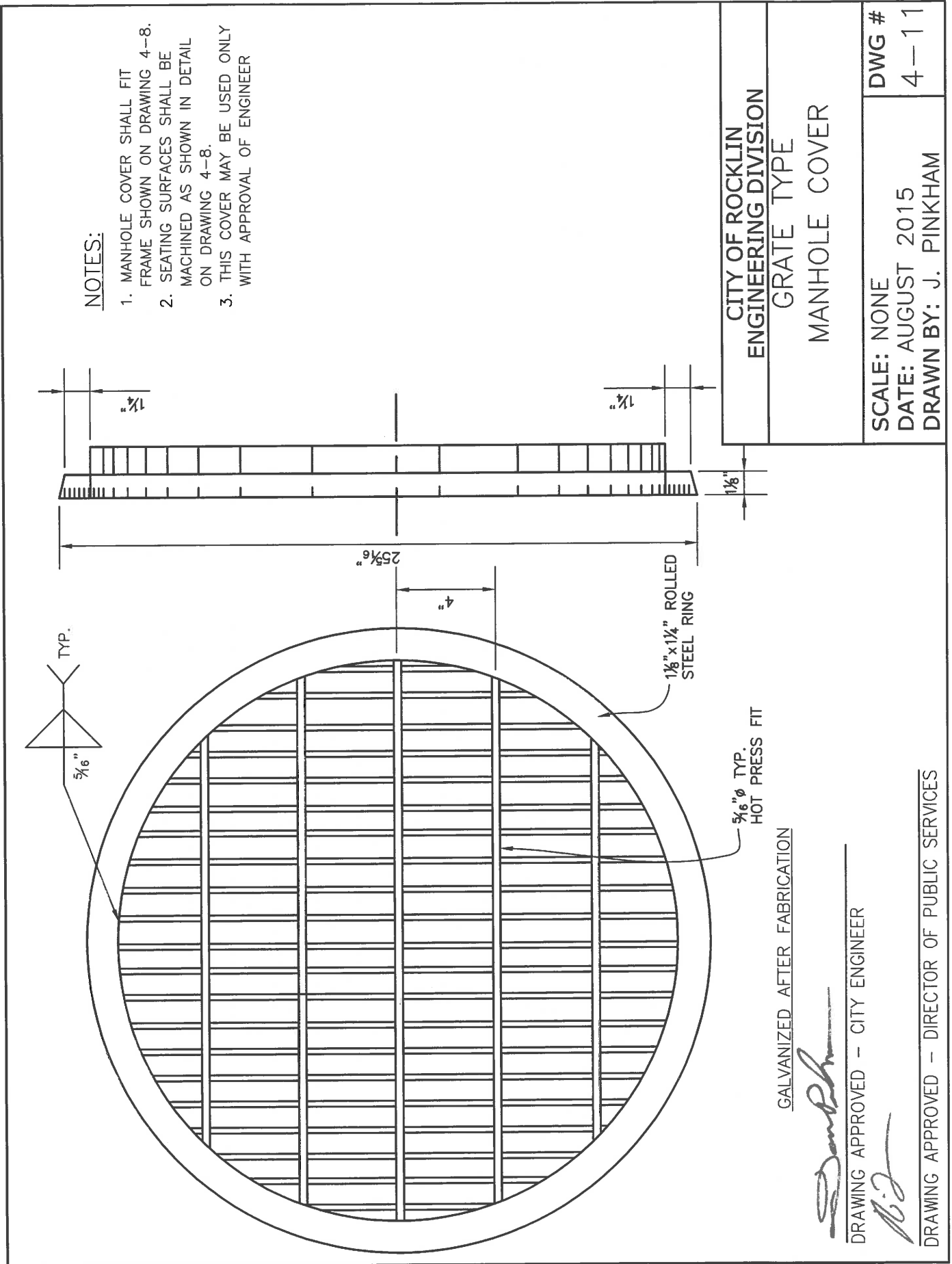
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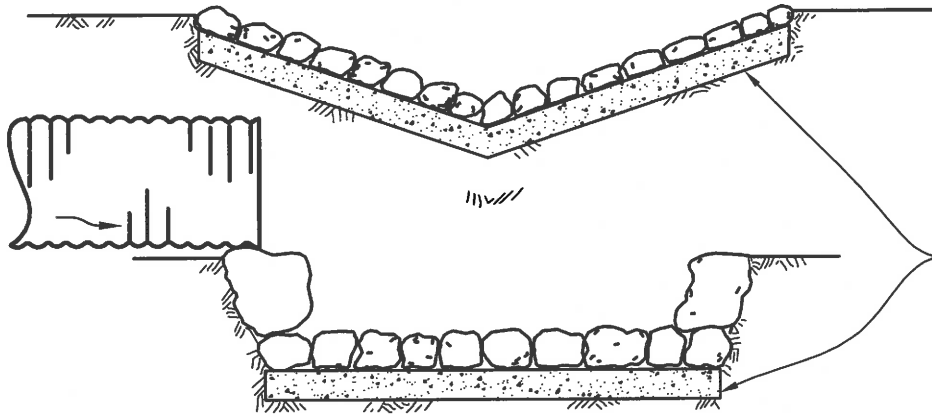
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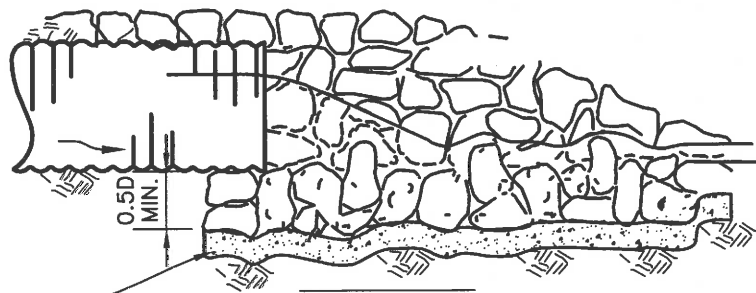
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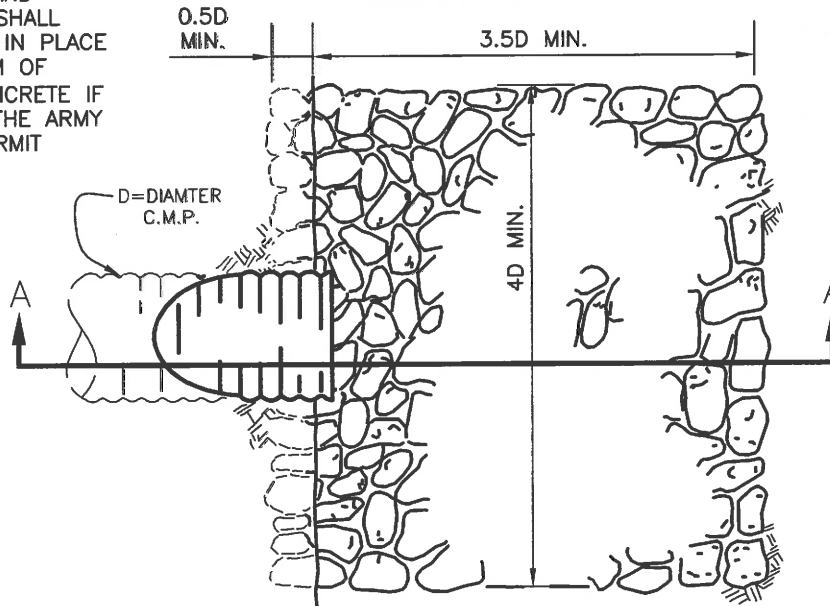


STREAM BANK SLOPE PROTECTION



SECTION A-A

BOTH COBBLE AND QUARRY ROCK SHALL BE CONCRETED IN PLACE WITH A MINIMUM OF 6" BED OF CONCRETE IF APPROVED BY THE ARMY CORPS 404 PERMIT



CULVERT OUTFALL

NOTE:

STONE LINING SHALL BE GROUTED COBBLES CONFORMING TO THE REQUIREMENTS OF THE STANDARD CONSTRUCTION SPECIFICATIONS OR QUARRY ROCK CONFORMING TO THE REQUIREMENTS OF THE STANDARD CONSTRUCTION SPECIFICATIONS SS-15 & SS-16 AND CALTRANS SECTION 72.

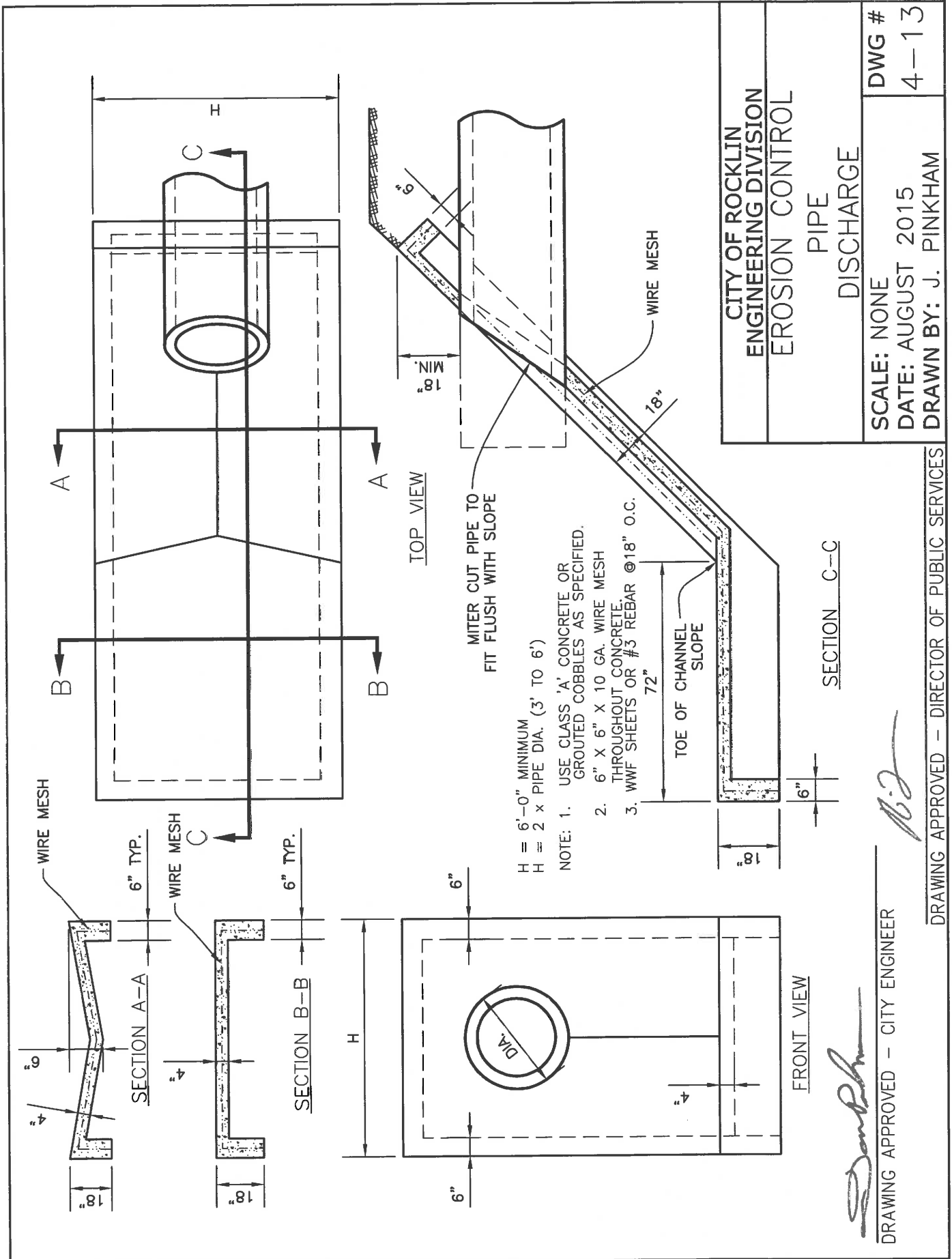
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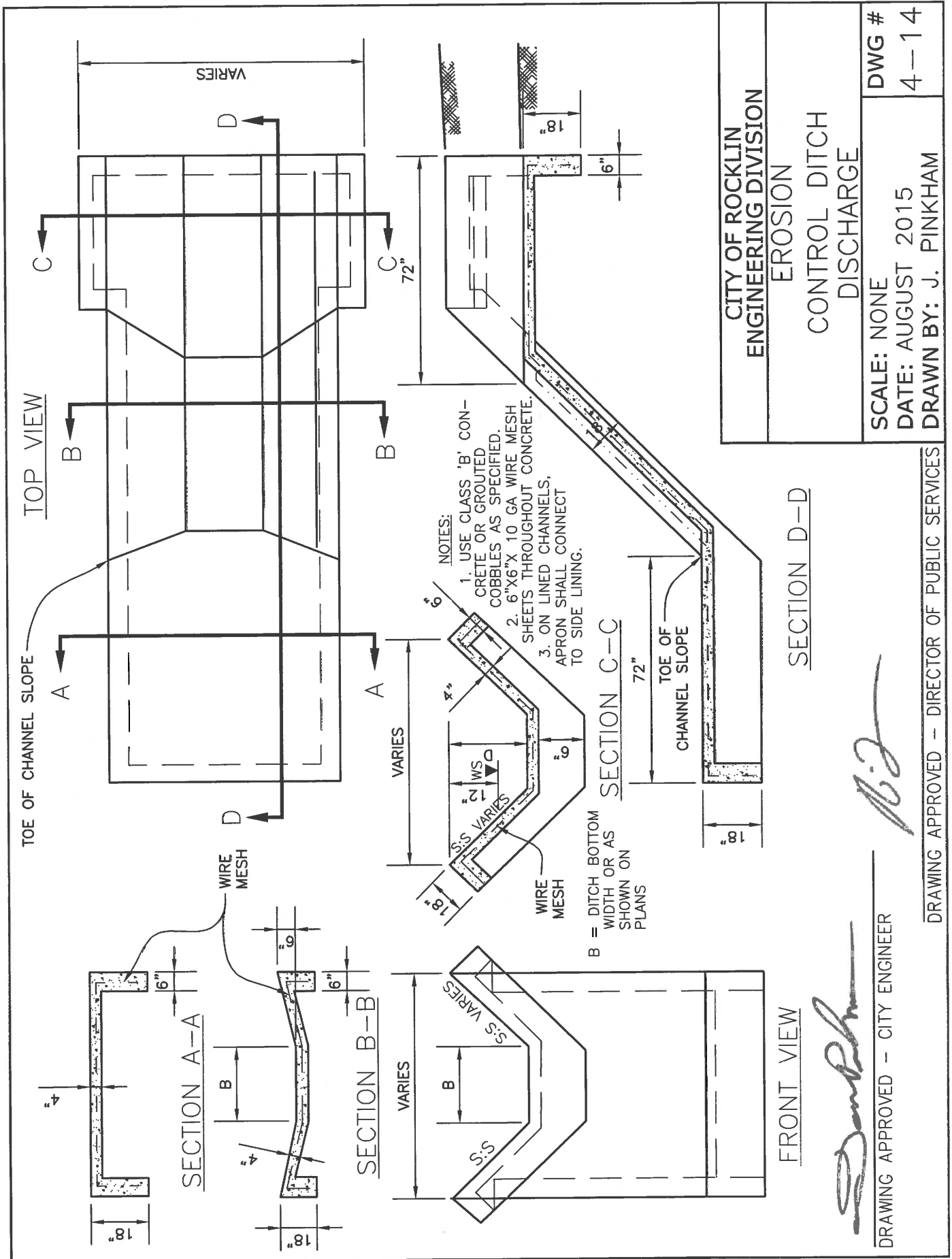
DRAWING APPROVED – CITY ENGINEER

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DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
CULVERT OUTFALL AND STREAM BANK SLOPE PROTECTION	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	4-12
DRAWN BY: J. PINKHAM	



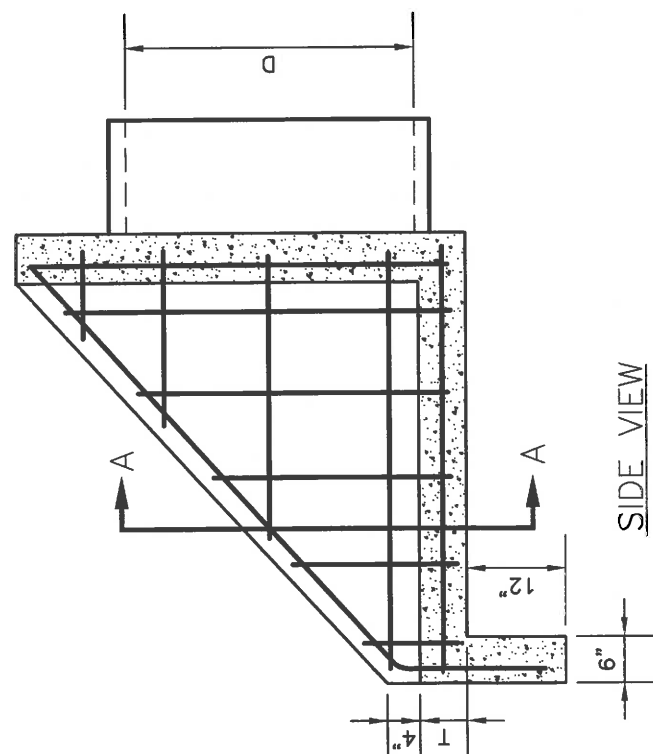
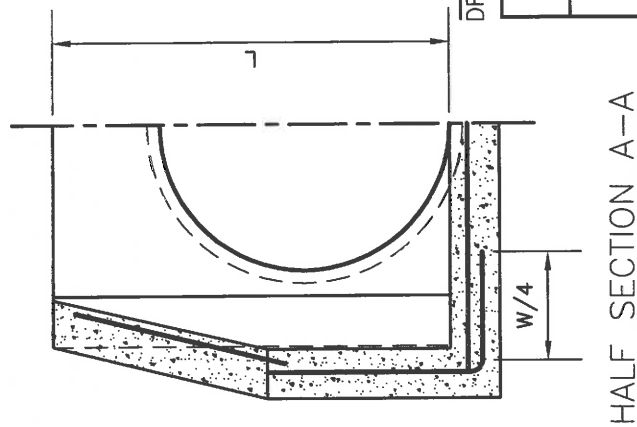
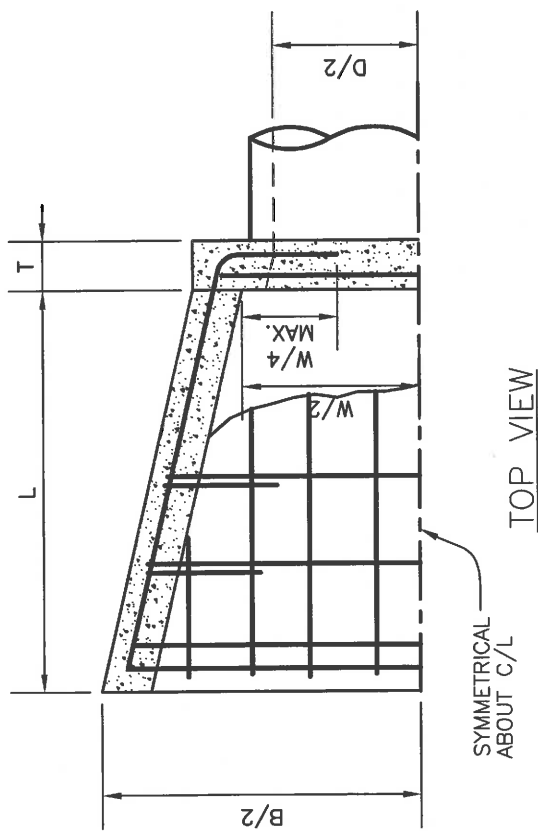


DIMENSIONS & REINFORCING

D	W	B	L	T	ALL REINFORCING
33"	3'- 5"	5'- 3"	4'- 0"	6"	# 5 @ 12"
36"	3'- 8"	5'- 8"	4'- 2"	6"	# 5 @ 12"
42"	4'- 4"	6'- 4"	4'- 8"	6"	# 5 @ 12"
48"	4'- 10"	7'- 2"	5'- 2"	8"	# 6 @ 12"
54"	5'- 4"	8'- 0"	6'- 0"	8"	# 6 @ 12"
60"	6'- 0"	8'- 10"	6'- 6"	8"	# 6 @ 12"

NOTES:

1. "B" MAY BE REDUCED IF REQUIRED BY CHANNEL DIMENSIONS.
2. REINFORCING BAR SPACING SHOWN IS MAXIMUM SPACING.
3. USE CLASS 'B' CONCRETE.



[Signature]
DRAWING APPROVED - CITY ENGINEER

[Signature]

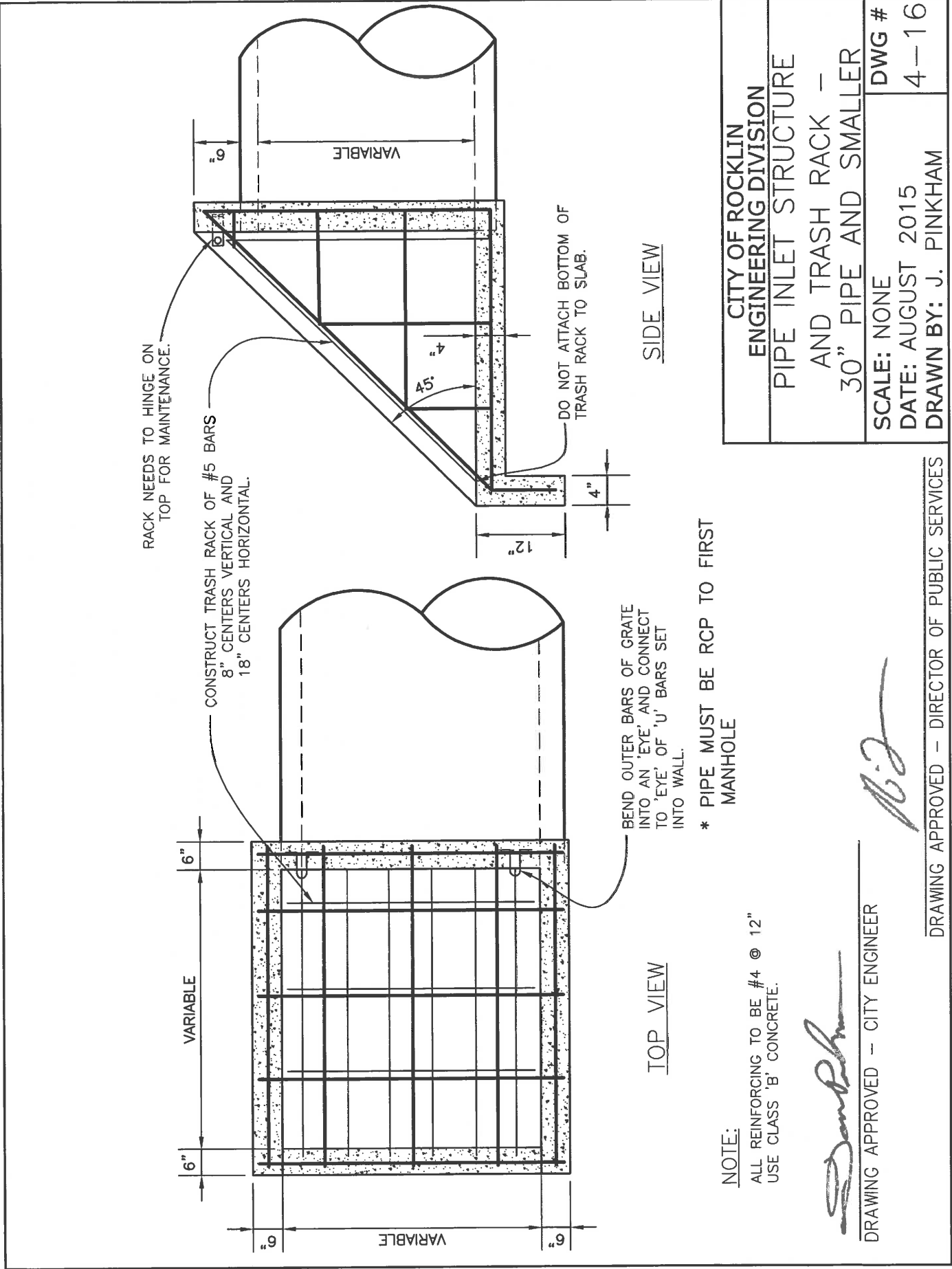
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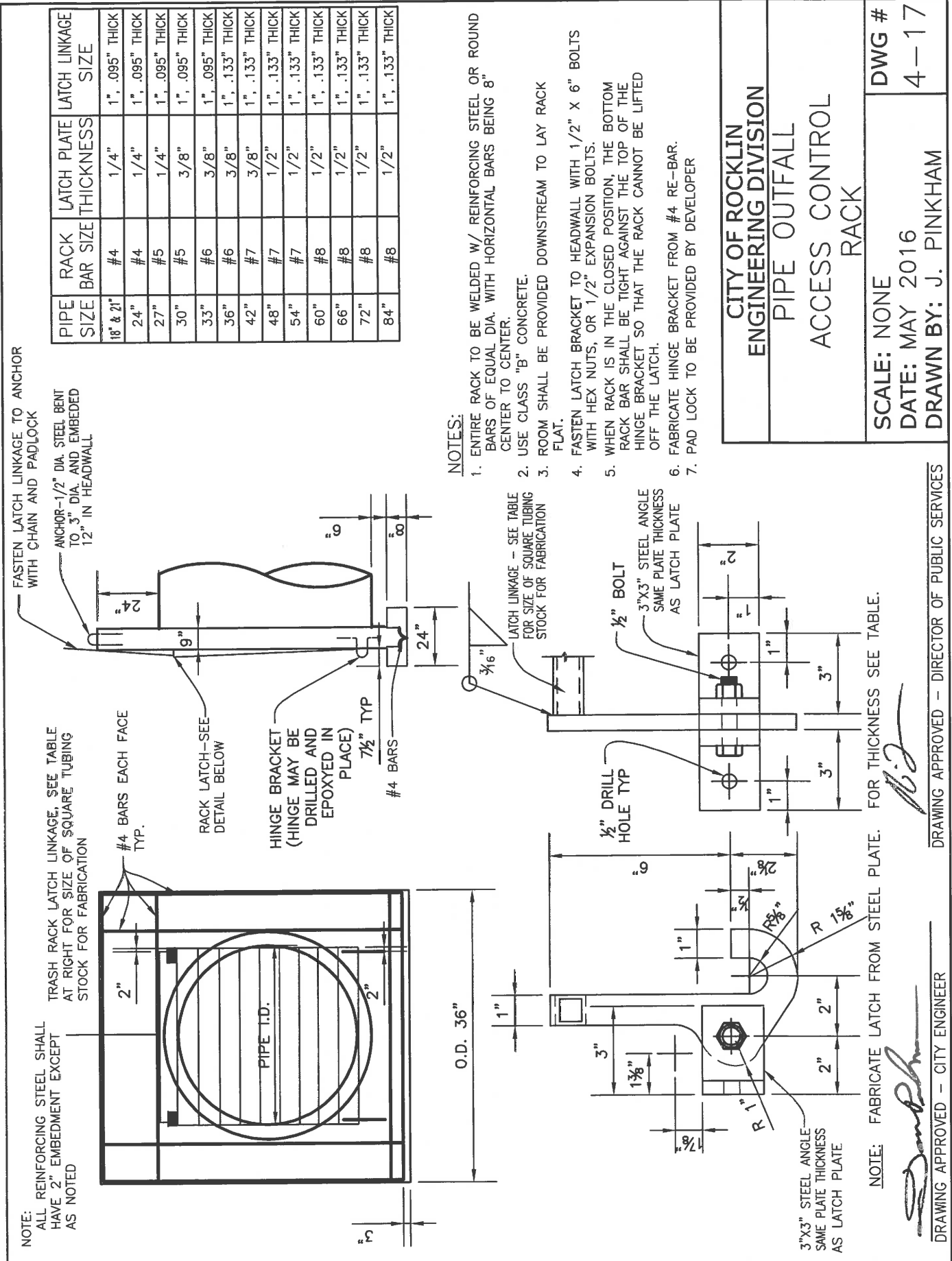
CITY OF ROCKLIN
ENGINEERING DIVISION

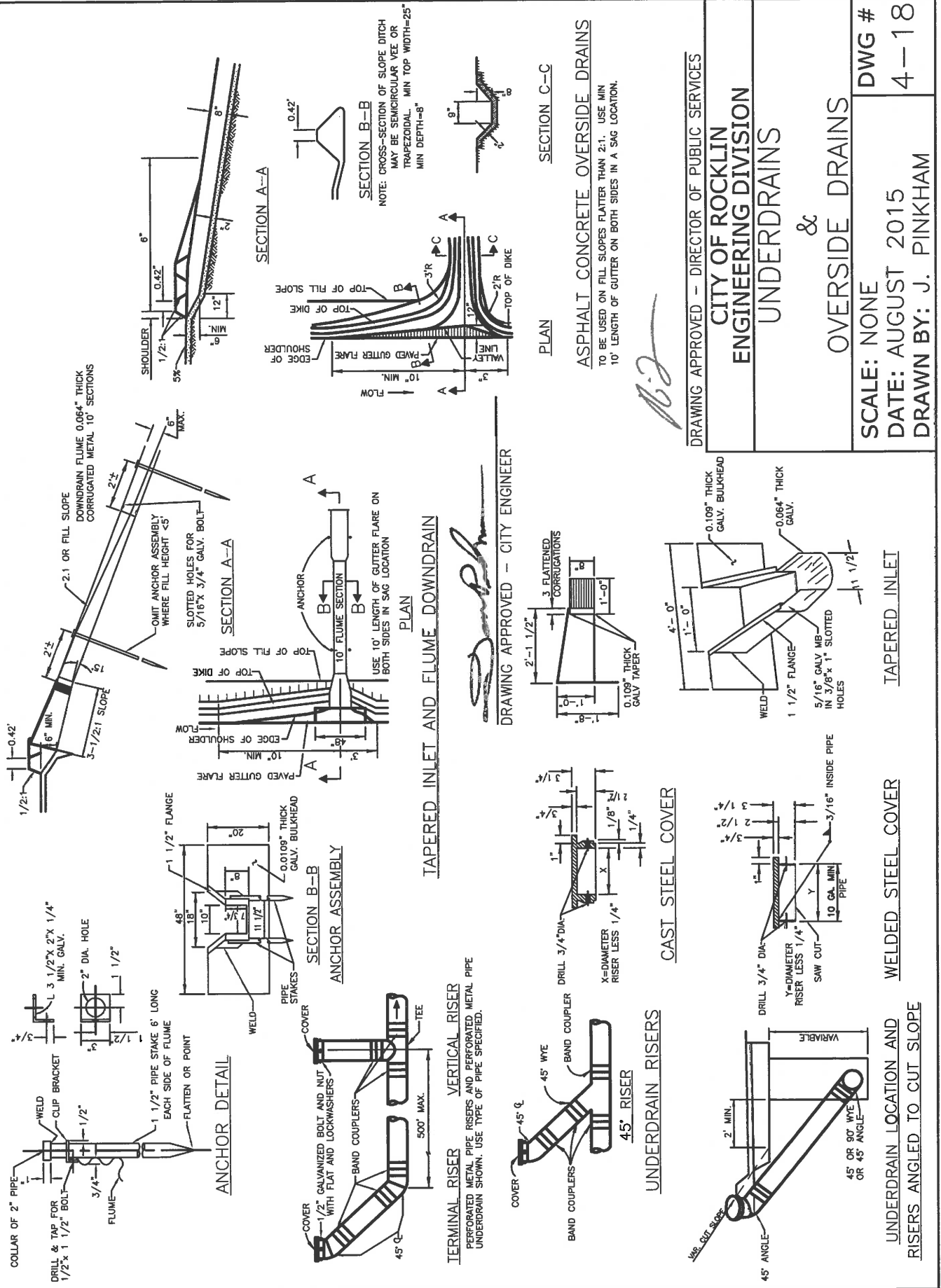
PIPE
INLET
STRUCTURE

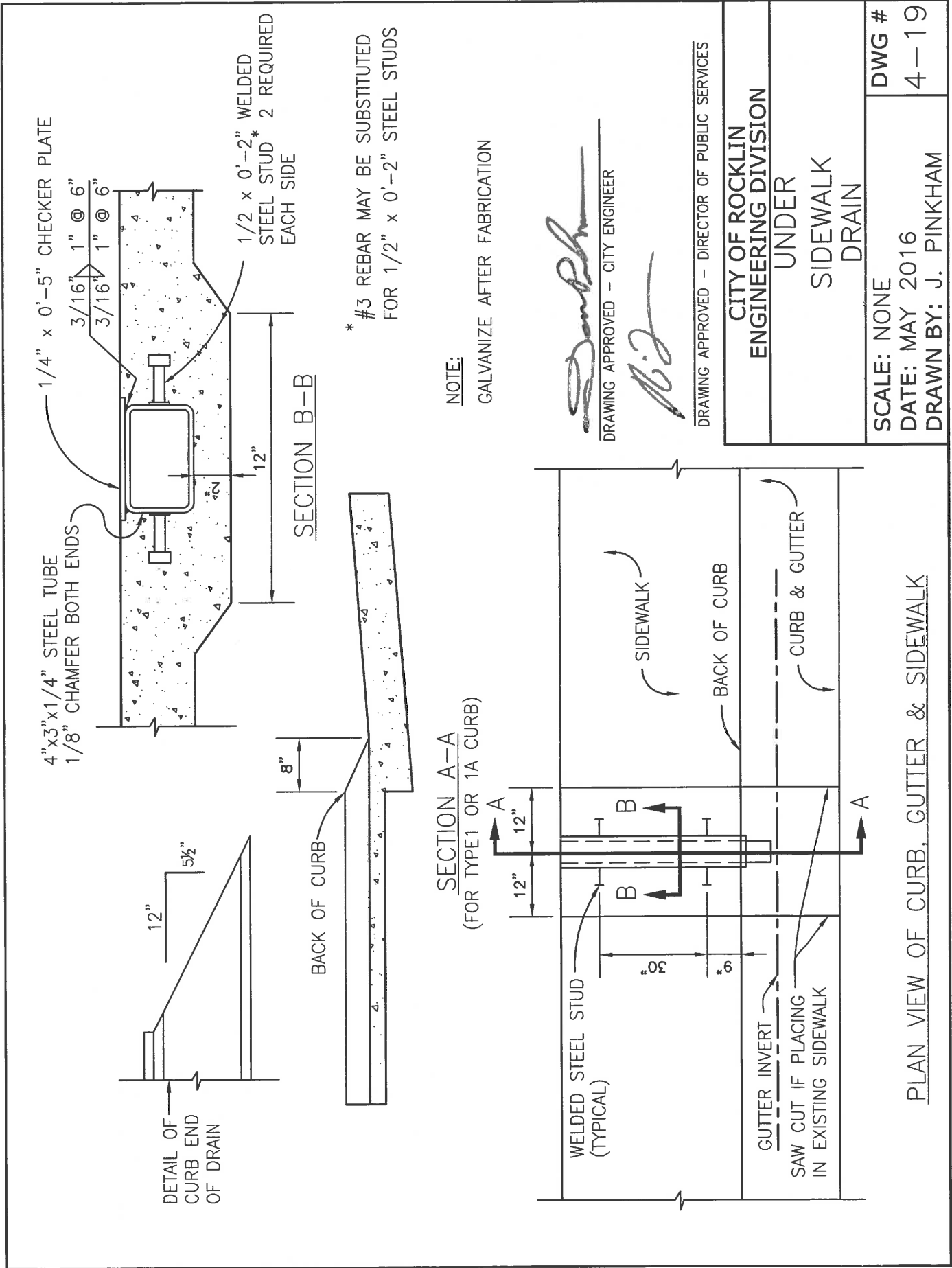
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DATE: AUGUST 2015
DRAWN BY: J. PINKHAM

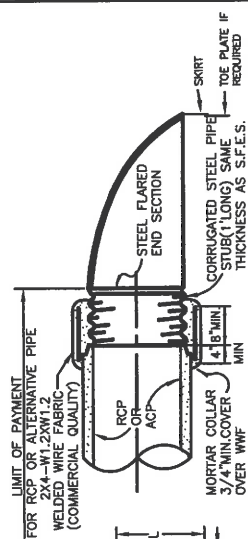
DWG #
4-15







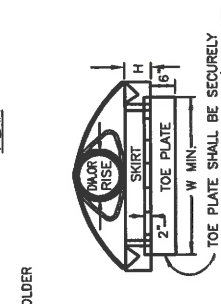
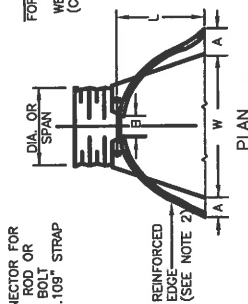




STEEL FLARED END SECTION
CONNECTION TO RCP OR ACP

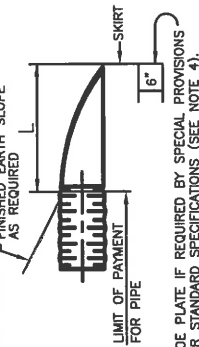
NOTES

1. ALL PIPE BODIES TO HAVE 0.100 THICK ENDS AND 0.189 THICK CENTER PANELS. WIDTH OF CENTER PANELS TO BE GREATER THAN 20% OF THE PIPE PERIMETER. MULTIPLE PANEL BODIES TO HAVE LAP SEAMS WHICH ARE TO BE TIGHTLY JOINED BY RIVETS OR BOLTS.
2. REINFORCED ENDS TO BE SUPPLEMENTED WITH STIFFENER ANGLES FOR THE 80" THRU 84" ROUND, 77" X52" AND 83" X57" PIPE-ARCH SEAMS. THE ANGLES WILL BE 2" X2 1/4" FOR THE 60" THRU 72" ROUND, 77" X52" AND 83" X57" PIPE-ARCH SEAMS AND 2-1/2" X2 1/4" X 1/4" FOR THE 78" AND 84" ROUND. THE ANGLES ARE TO BE ATTACHED BY 3/8" NUTS AND BOLTS.
3. ANGLE REINFORCEMENT WILL BE PLACED UNDER THE CENTER PANEL SEAMS ON THE 77" X 52" AND 83" X 57" PIPE-ARCH SEAMS. (WHEN SPECIFIED).
4. TOP PLATE TO BE AVAILABLE AS AN ACCESSORY WHEN SPECIFIED.

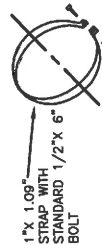


ALTERNATE CONNECTIONS

PIPE TO FLARED END SECTIONS



TYPICAL CROSS-SECTION



ALTERNATE END SECTION
CONNECTOR STRAP

PIPE—ARCHES									
INCHES SEPARATE	END SECTION THICK	DIMENSIONS—INCHES							
		A		B		H		W	
		1 1/2"	MAX	1 1/2"	MAX	1 1/2"	MAX	1 1/2"	2 1/2"
24	1.064"	7	10	6	23	36	42		
24	18	6	12	6	28	42			
24	24	18	0.064"	9	14	6	32	48	
24	20	0.064"	9	14	6	32	48		
25	24	0.079"	10	16	6	39	60		
25	24	0.079"	10	16	6	39	60		
26	42	28	0.079"	12	18	8	46	75	
26	48	33	0.109"	13	21	8	53	85	
26	57	38	0.109"	18	26	12	63	90	
26	64	43	0.109"	18	32	12	70	102	
26	71	47	0.109"	18	33	12	77	114	
27	72	50	0.109"	18	36	12	77	128	
27	75	52	0.109"	18	36	12	77	138	
28	83	57	0.109"	18	39	12	77	138	

[illegible]

MINIMUM DIMENSIONS						
PIPE DIA.	A	B	C	D	E	SLOPE
12"	4"	3-3/4"	1"-10"	2'-0"	2'-0"	2:1 OR FLATTER
12"	4"	2"	2'-1"	3'-0"	3'-0"	
18"	9"	2"	3'-6"	4'-0"	4'-0"	
24"	9'-1/2"	2'-1/2"	4'-5"	5'-0"	5'-0"	
30"	1'-0"	3"	5'-2"	6'-0"	6'-0"	
36"	1'-3"	3-3/8"	5'-3"	6'-6"	6'-6"	
42"	1'-9"	3'-3/8"	5'-3"	6'-6"	6'-6"	
48"	2'-0"	4'-4"	6'-0"	7'-0"	7'-0"	
54"	2'-3"	4'-5/8"	6'-6"	8'-0"	8'-0"	
60"	2'-6"	4'-5/8"	6'-6"	8'-0"	8'-0"	

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

**CITY OF ROCKLIN
ENGINEERING DIVISION
FLARED**

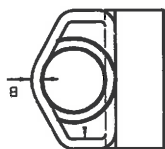
END

SECTION

SCALE: NONE	DWG #
DATE: AUGUST 2015	4-20
DRAWN BY: J. PINKHAM	

FLARED END SECTIONS
FOR C.M.P. CULVERTS

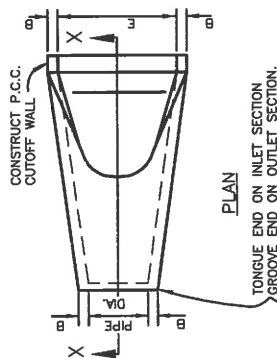
DRAWING APPROVED - CITY ENGINEER



END VIEW

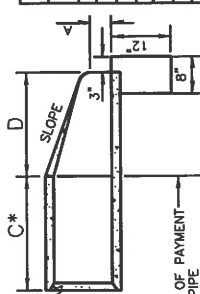
*C DIMENSION SHALL BE SET PER MANUFACTURER'S RECOMMENDATIONS AND WILL BE PAID FOR AT THE GOING PRICE FOR CONCRETE PIPE.

MINIMUM DIMENSIONS						SLOPE	
PIPE DIAL	A	B	C*	D	E	FLAT	
12"	4"	2"		2'-0"	2'-0"	2'-0"	
18"	9"	2-1/2"		3'-0"	3'-0"	3'-0"	
24"	3-1/2"	3"		3'-1/2"	4'-0"	3'-1/2"	
30"	1'-0"	3-1/2"		4'-6"	5'-0"	4'-6"	
36"	1'-3"	4"		5'-3"	5'-0"	5'-3"	
42"	1'-9"	4-1/2"		5'-3"	6'-6"	5'-3"	
48"	2'-0"	5"		6'-0"	7'-0"	6'-0"	
54"	2'-3"	5-1/2"		6'-6"	7'-6"	6'-6"	



PLAN

TONGUE END ON INLET SECTION.
GROOVE END ON OUTLET SECTION.

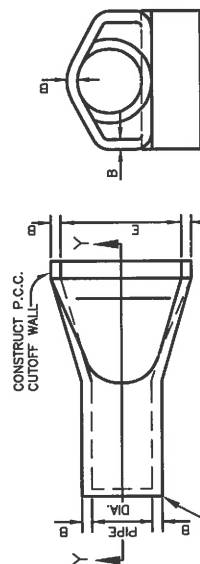


LIMIT OF PAYMENT—

SECTION X-X

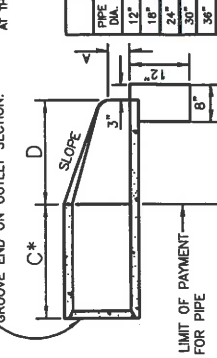
PRECAST CONCRETE FLARED END SECTION TYPE A

(SEE NOTE 6)



PLAN

TONGUE END ON INLET SECTION
D GROOVE END ON OUTLET SECTION



LIMIT OF
FOR PIPE

SECTION Y-Y

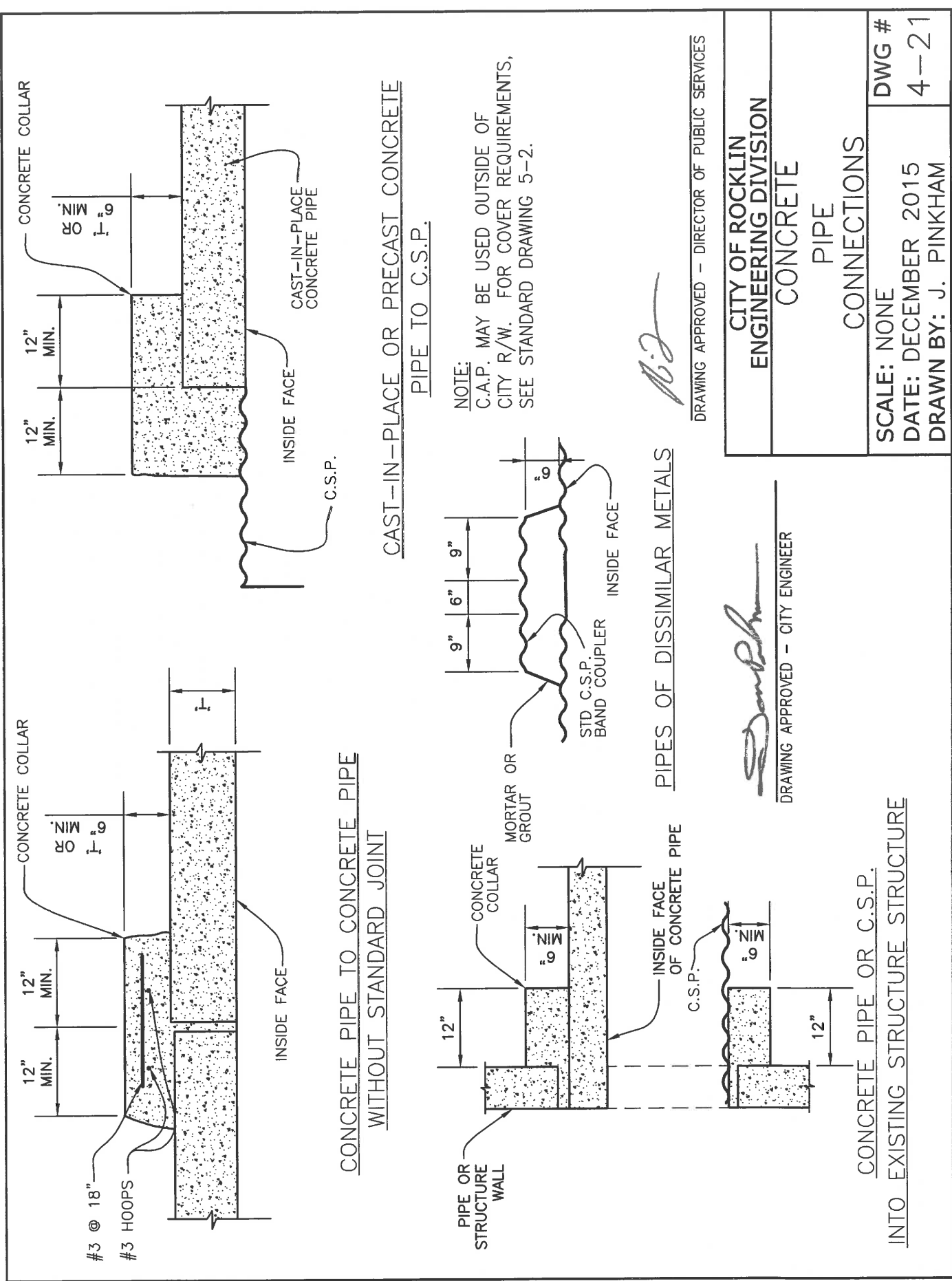
PRECAST CONCRETE FLARED END SECTION TYPE B

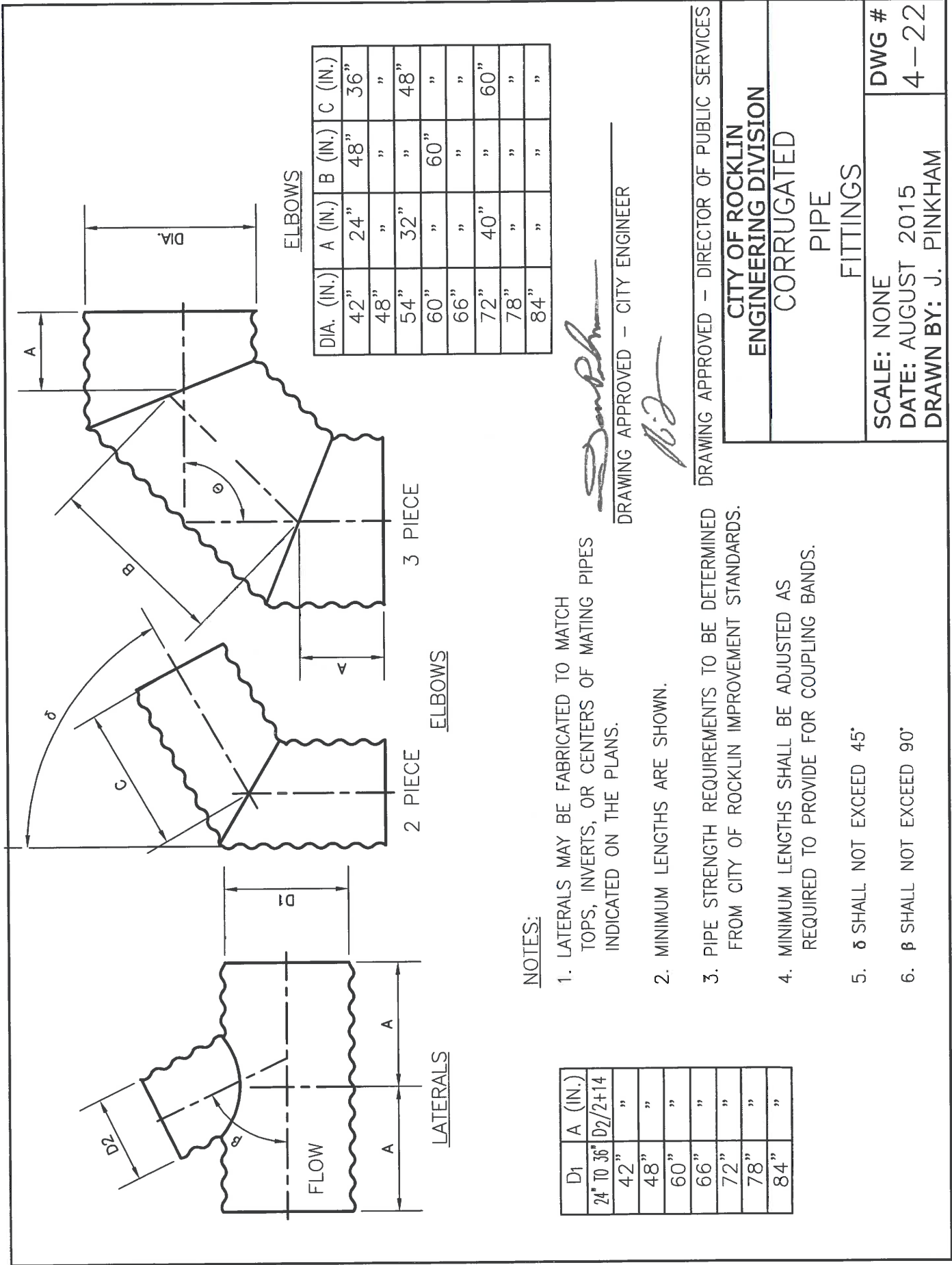
(SEE NOTE 6)

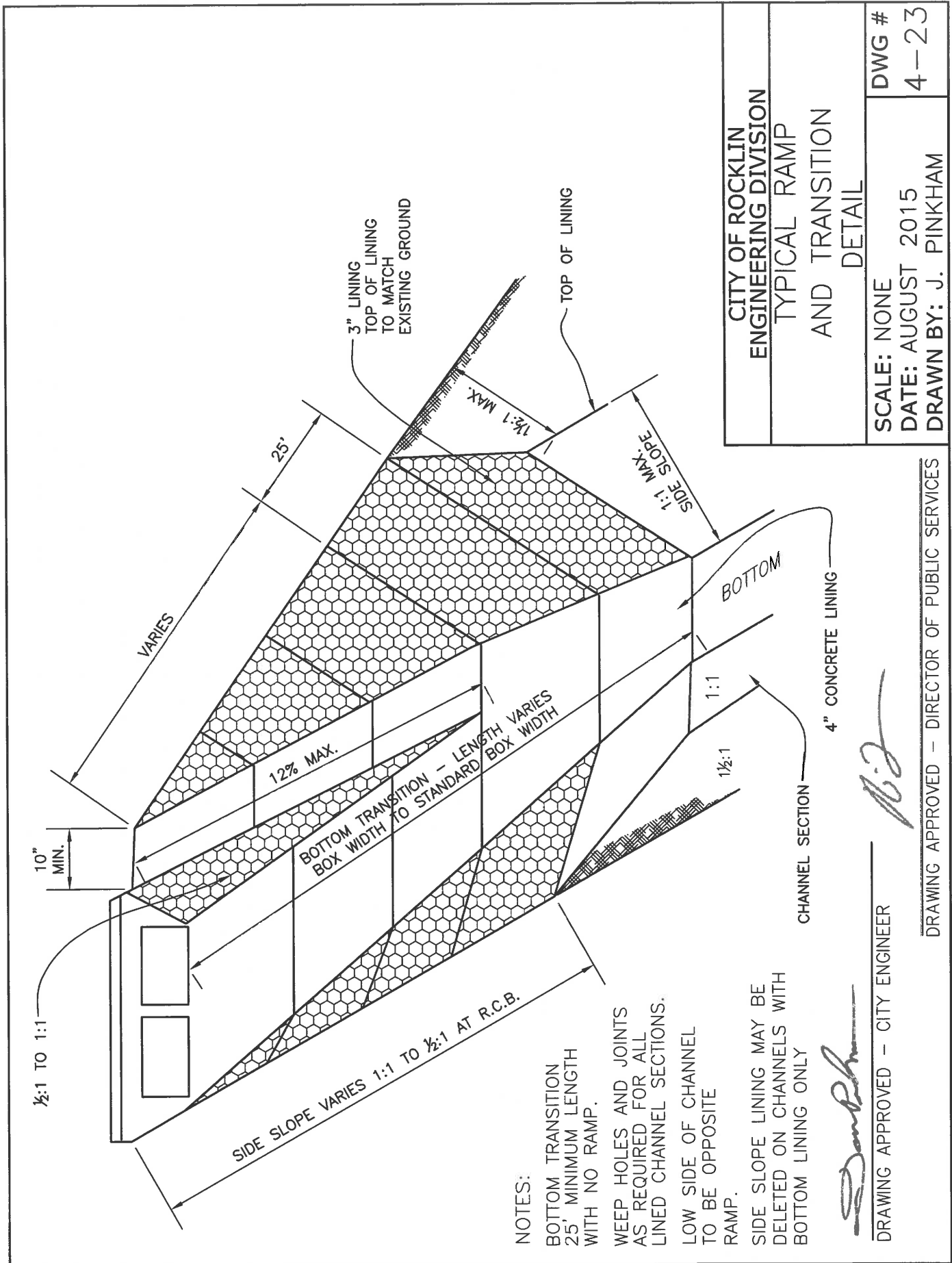
Barbara

FLARED END SECTIONS
FOR C.M.P. CULVERTS

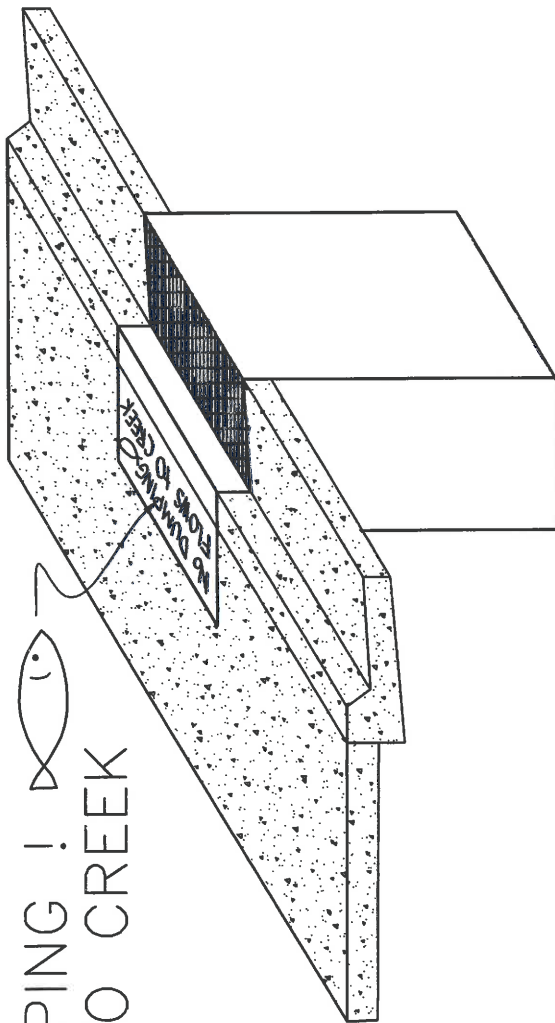
DRAWING APPROVED - CITY ENGINEER







NO DUMPING !
FLOWS TO CREEK



1. Clean Surface
Make sure application surface is flat, dry and free of any loose debris.
2. Apply Adhesive
Coming in 1/8" from the outside edge of the marker, apply a bead of adhesive and then work in to the center.
3. Stick It!
Apply the marker to the application surface pushing down HARD forcing adhesive out around the entire edge. It is important that the entire edge of the marker is sealed to the application surface.

DRAIN INLETS FOR COMMERCIAL PROJECTS OR ONSITE

1. STORM DRAIN MESSAGE SHALL BE APPROVED BY THE CITY OF ROCKLIN, ENGINEERING DIVISION.
2. STORM DRAIN MESSAGE SHALL BE APPLIED IN SUCH A WAY AS TO PROVIDE A CLEAR, LEGIBLE IMAGE STAMPED IN CONCRETE. THE DEPTH SHOULD BE APPROXIMATELY 0.25".
3. MESSAGE SHALL APPEAR ON ALL STORM DRAIN INLETS.

STORM DRAIN MESSAGE



DRAWING APPROVED - CITY ENGINEER

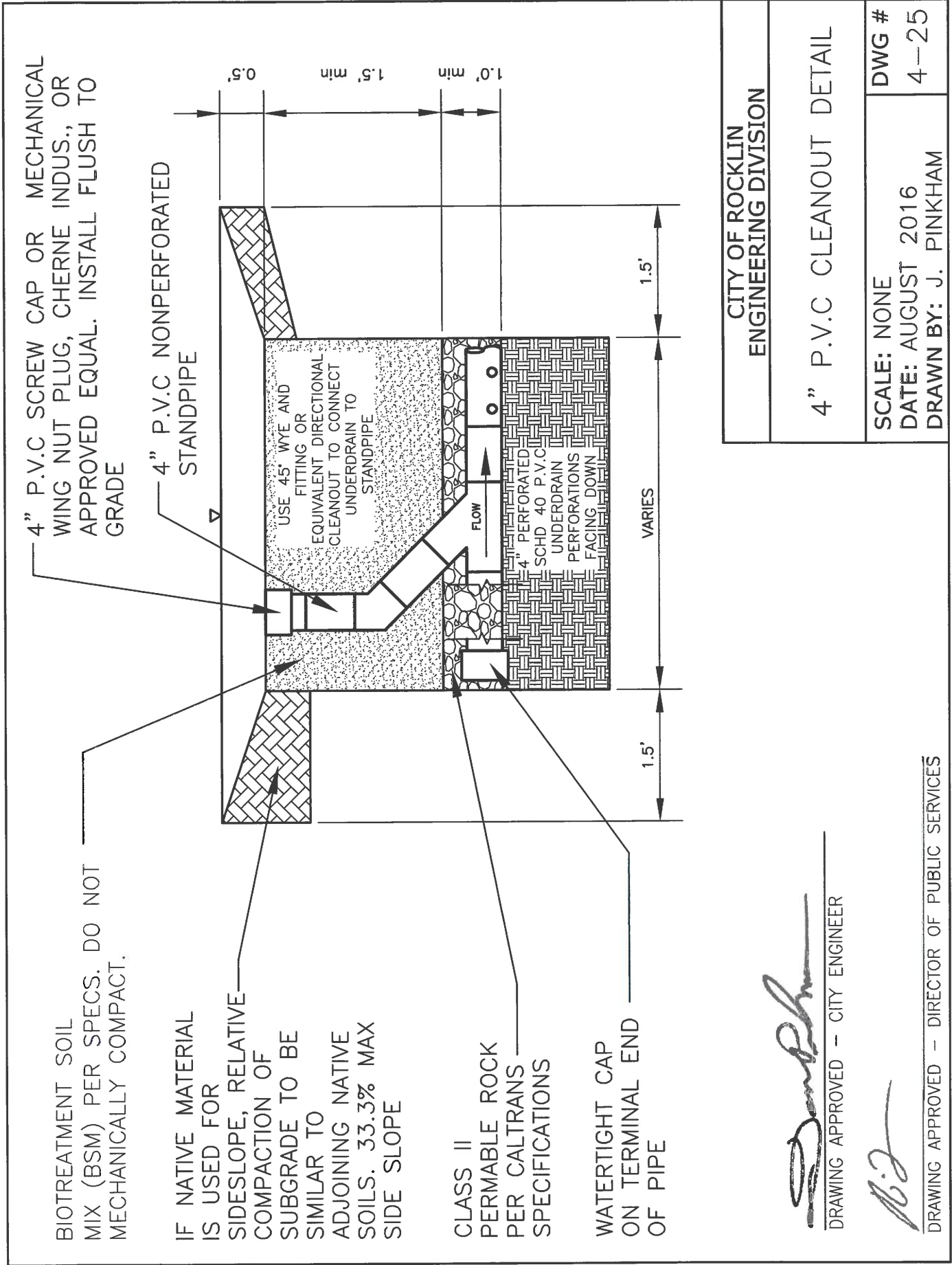
CITY OF ROCKLIN
ENGINEERING DIVISION

TYPICAL STORM
DRAIN INLET
STAMP

SCALE: NONE	DWG #
DATE: AUGUST 2015	4-24
DRAWN BY: J. PINKHAM	



DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES




DRAWING APPROVED -- CITY ENGINEER


DRAWING APPROVED -- DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION

4" P.V.C. CLEANOUT DETAIL

SCALE: NONE	DWG #
DATE: AUGUST 2016	4-25
DRAWN BY: J. PINKHAM	

MAXIMUM TRENCH DEPTH MEASURED SURFACE TO BOTTOM OF TRENCH IN FEET										MINIMUM COVER MEASURED SURFACE TO TOP OF PIPE IN INCHES				
DIAMETER	C-14 CONC. PIPE -CLASS-			REINFORCED CONCRETE PIPE -CLASS-					HDPE	CAST IN PLACE	TYPE	CLASS	MIN. COVER	
	1	2	3	I	II	III	IV	V					STREET	OFF ST.
10	12	17	29	NOT PERMITTED	8	12	30	NO LIMIT	PER CALTRANS STANDARD, SECTION 64, LATEST EDITION	NO LIMIT	C-14 CONC. PIPE	1	30	12
12	12	17	21		10	15	35				27	12		
15	12	17	20		11	16	38				24	12		
18	11	17	19		12	17	39				18	12		
21	11	17	19		12	18	39				12	12		
24	11	16	19		13	19	39				12	12		
27	11	16	18		14	20	38				12	12		
30	11	15	17	NOT PERMITTED	14	17	27	NO LIMIT	PER CALTRANS STANDARD, SECTION 64, LATEST EDITION	NO LIMIT	HDPE	I	27	12
33	11	15	16		13	18	29				24	12		
36	10	13	14		15	19	30				18	12		
42	NOT PERMITTED	NOT PERMITTED	NOT PERMITTED		16	20	31				12	12		
48					16	21	31				12	12		
54					17	22	32				12	12		
60					18	23	33				12	12		
66				15			56	12	12					
72				56										

NOTES:

- ALL DEPTHS SHOWN ARE FLEXIBLE PAVEMENT AND TRENCH WIDTH EQUAL TO O.D. OF PIPE PLUS 16" FOR PIPE 33" AND SMALLER IN INSIDE DIAMETER. TRENCH WIDTH EQUALS O.D. OF PIPE PLUS 24" FOR PIPE 36" AND LARGER IN INSIDE DIAMETER. TRENCH WIDTH MEASURED AT TOP OF PIPE.
- ALL PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR PER THIS TABLE, WHICHEVER IS MORE STRINGENT.

[Signature]

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

[Signature]

DRAWING APPROVED - CITY ENGINEER

CITY OF ROCKLIN
ENGINEERING DIVISION

CONC.PIPE, REINF.CONC.PIPE,
HDPE AND CAST-IN-PLACE
CONC. PIPE COVER REQ.

SCALE: NONE	DWG #
DATE: DECEMBER 2015	5-1
DRAWN BY: J. PINKHAM	

MAXIMUM TRENCH DEPTH MEASURED SURFACE TO BOTTOM OF TRENCH IN FEET		CORRUGATED STEEL PIPE (C.S.P.)**					CORRUGATED ALUMINUM PIPE (C.A.P.)*					MINIMUM COVER MEASURED SURFACE TO TOP OF PIPE IN INCHES	
DIA. IN INCHES	THICKNESS IN INCHES	0.064	0.079	0.109	0.138	0.168	0.060	0.075	0.105	0.135	0.165	(C.S.P.)	(C.A.P.)*
												42' TO 60' R/W STREETS	MAJOR STREETS ONLY
10							40					6	9
12		100					35	40	50				
15		100					32	35	40				
18		100					26	30	35				
21		91	100				21	25	30				
24		80	100				13	21	30				
27		64	80				13	20	27				
30		64	80	100			12	19	25	30			
33		53	66	93				16	20	27			
36		53	66	93	100			15	18	25	30		
42		46	57	80	100			13	15	20	29		
48		40	50	70	86	100			15	18	27	9	
54		43	44	62	75	98			13	15	25	6	
60		39	49	56	69	88				10	20	8	
66		35	44	51	62	78				10	18	8	
72		32	41	56	55	68				10	15	8	

NOT PERMITTED

NOTES:

- 1.)**--NORMAL PIPE CORRUGATION PROFILE IS 2 2/3" x 1". THE CORRUGATION OF THE PIPES WITHIN THE SHADED AREA SHALL HAVE PROFILE OF 3" x 1".
- 2.)*--ALUMINUM PIPE IS NOT PERMITTED IN PUBLIC STREET RIGHT OF WAY.
- 3.) WHEN FLOW VELOCITY EXCEEDS FIVE (5) F.P.S. THICKER METAL SHALL BE PROVIDED.
- 4.) ALL PIPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS OR PER THIS TABLE, WHICHEVER IS MORE STRINGENT.

[Signature]

DRAWING APPROVED - CITY ENGINEER _____ DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES _____

CITY OF ROCKLIN
ENGINEERING DIVISION

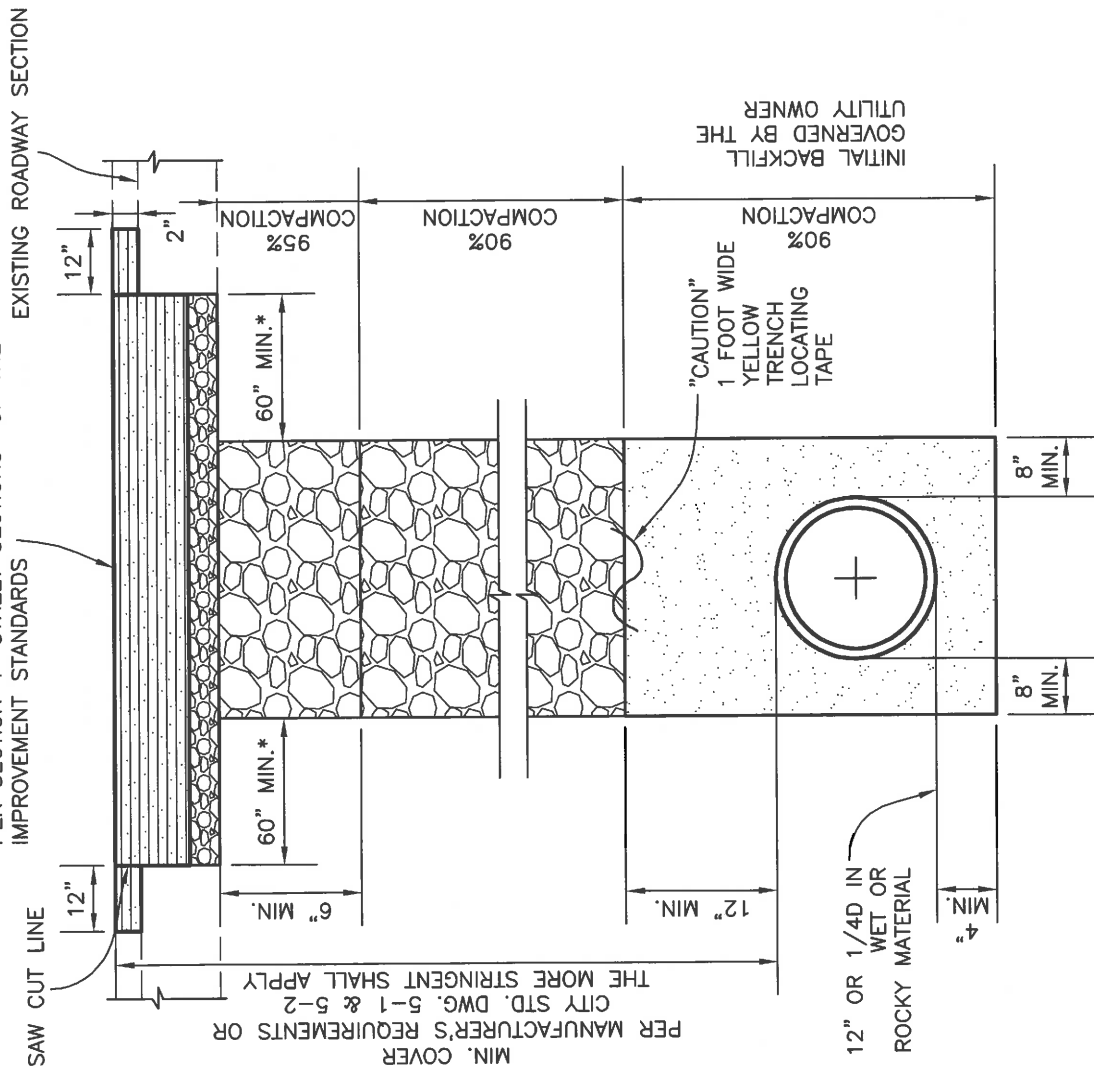
CORRUGATED STEEL AND
ALUMINUM PIPE
COVER REQUIREMENTS

SCALE: NONE
DATE: DECEMBER 2015
DRAWN BY: J. PINKHAM

DWG #
5-2

TRENCH
EXCAVATION

REPLACE WITH 12"AC, OR 8"AC OVER 4"AB
ON MINOR AND PRIMARY ARTERIAL, OR 4"AC
OVER 8"AB ON COLLECTOR AND RESIDENTIAL
PER SECTION 4 "STREET SECTIONS" OF THE
IMPROVEMENT STANDARDS



PER MANUFACTURER'S REQUIREMENTS OR
CITY STD. DWG. 5-1 & 5-2
THE MORE STRINGENT SHALL APPLY

TRENCH BACKFILL

TRENCH INTERMEDIATE BACKFILL PER CONSTRUCTION
SPECIFICATIONS

FOR TRENCH BEDDING AND INITIAL BACKFILL FOR DRAINAGE
SEE SECTION SS-11 OF THE SPECIFICATIONS. INITIAL
BACKFILL FOR ALL OTHER UTILITIES TO BE PER RESPECTIVE
UTILITY SPECS

STREET REPAIR/REPAVING

- A) STREET AGE ** 0-5 YRS:
THE CONTRACTOR SHALL GRIND AND PLACE BACK TWO (2)
INCHES OF THE WEARING COURSE OVER THE ENTIRE WIDTH
OF THE STREET. IF THE TRENCH IS CLOSE TO THE GUTTER,
THE CITY ENGINEER OR DESIGNER MAY ALLOW A VARIANCE.
- B) STREET AGE 6-10 YRS:
THE CONTRACTOR SHALL PLACE A TYPE II MICRO OVER THE
FULL WIDTH OF THE STREET.
- C) STREET AGE 11 YRS AND OLDER:
RESTORE THE TRENCH PER THIS STANDARD DRAWING. IF THE
TRENCH FALLS IN THE MIDDLE OF THE INSIDE LANE, THE
LIMITS SHOULD EXTEND TO THE LANE LINE.
- ** STREET AGE SHALL BE BASED ON WHEN THE STREET
WAS FIRST CONSTRUCTED, RE-CONSTRUCTED, OR LAST
RECEIVED AN ASPHALT OVERLAY

FOR REPAIR AND REPAVING REQUIREMENTS SEE SECTIONS
SS9-04 AND SS30-04

[Signature]
DRAWING APPROVED - CITY ENGINEER

[Signature]
DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

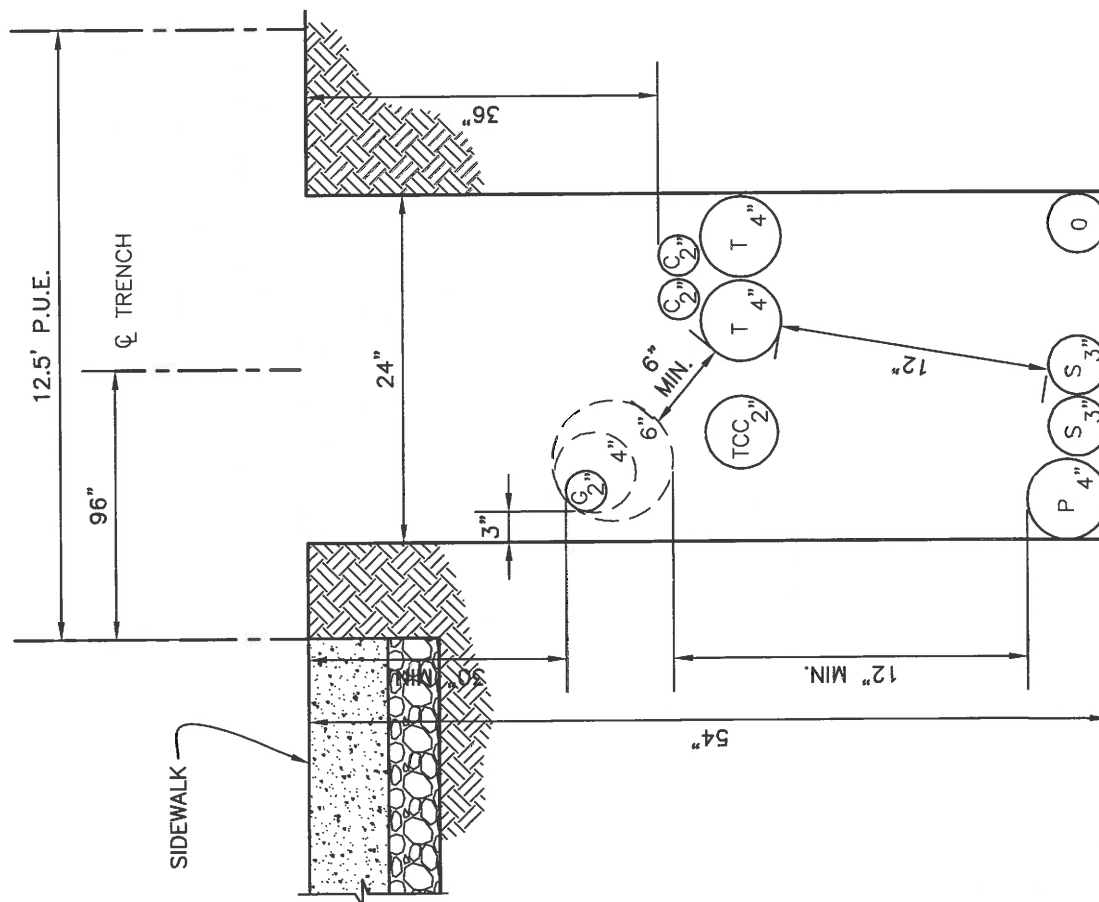
CITY OF ROCKLIN
ENGINEERING DIVISION

TRENCH

EXCAVATION &
BACKFILL

SCALE: NONE	DWG #
DATE: MAY 2016	5-3
DRAWN BY: J. PINKHAM	

* WHERE WIDTH CONSTRAINTS APPLY, THE CITY
ENGINEER OR DESIGNER MAY APPROVE A DEVIATION



NOTE:

UNUSUAL TYPICAL CONFIGURATION SHOULD WORK FOR MOST IDEAL TRENCHING SITUATIONS. FIELD CONDITIONS MAY DICTATE A NEED FOR ALTERNATIVE TRENCH DESIGN BASED ON P.U.E. WIDTH. SUBJECT TO PG&E INSPECTOR APPROVAL.

LEGEND

G	-	GAS
P	-	PRIMARY
S	-	SECONDARY
T	-	TELEPHONE
C	-	CATV
O	-	STREET LIGHT
TCC	-	TELECOMMUNICATIONS CONDUIT WITH CONTINUOUS #10 GREEN OR COPPER WIRE

DRAWING APPROVED -- CITY ENGINEER

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

**CITY OF ROCKLIN
ENGINEERING DIVISION**

TYPICAL

JOINT TRENCH CONFIGURATION

SCALE: NONE

DATE: DECEMBER 2015

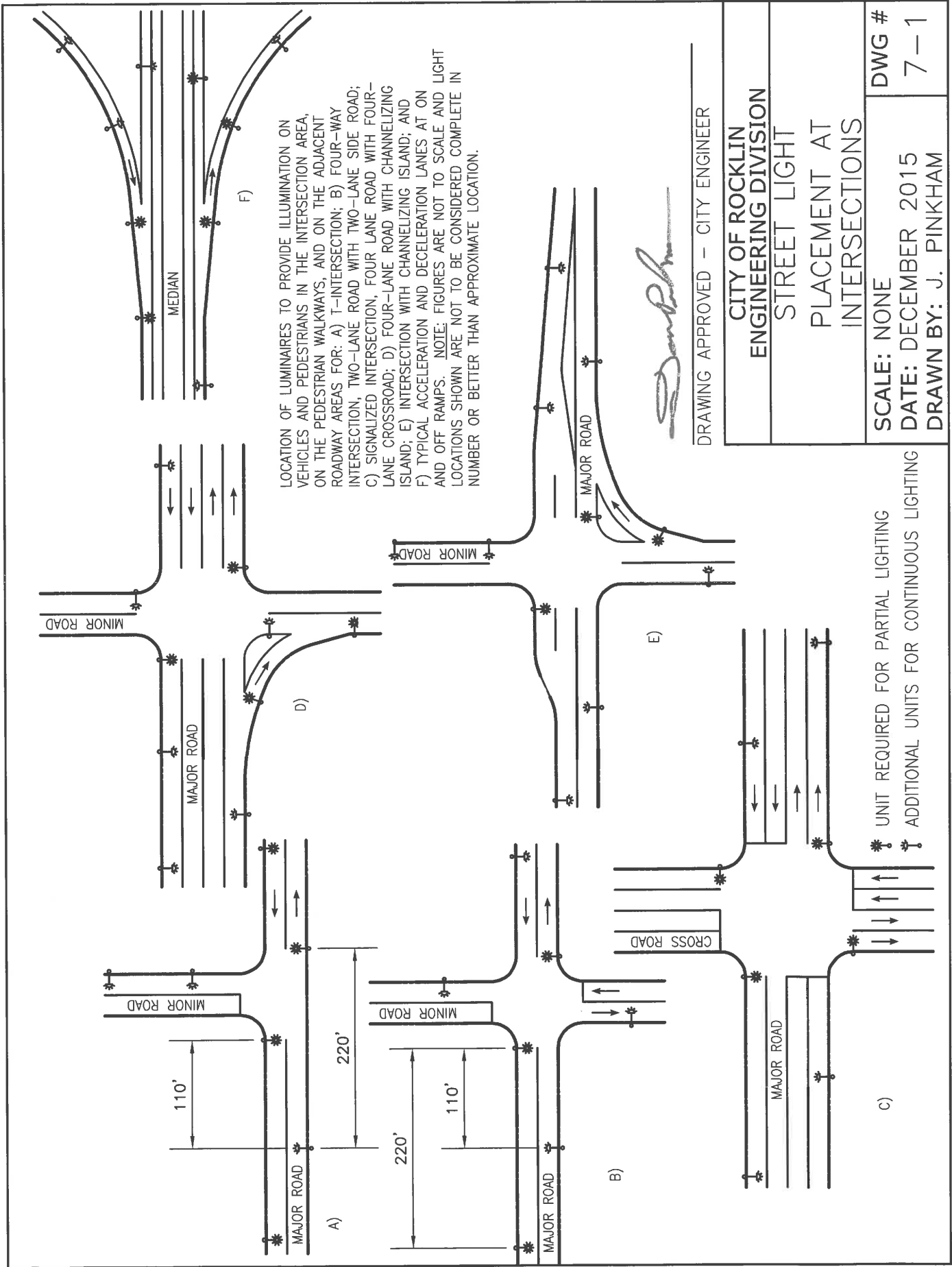
DRAWN BY: J. PINKHAM

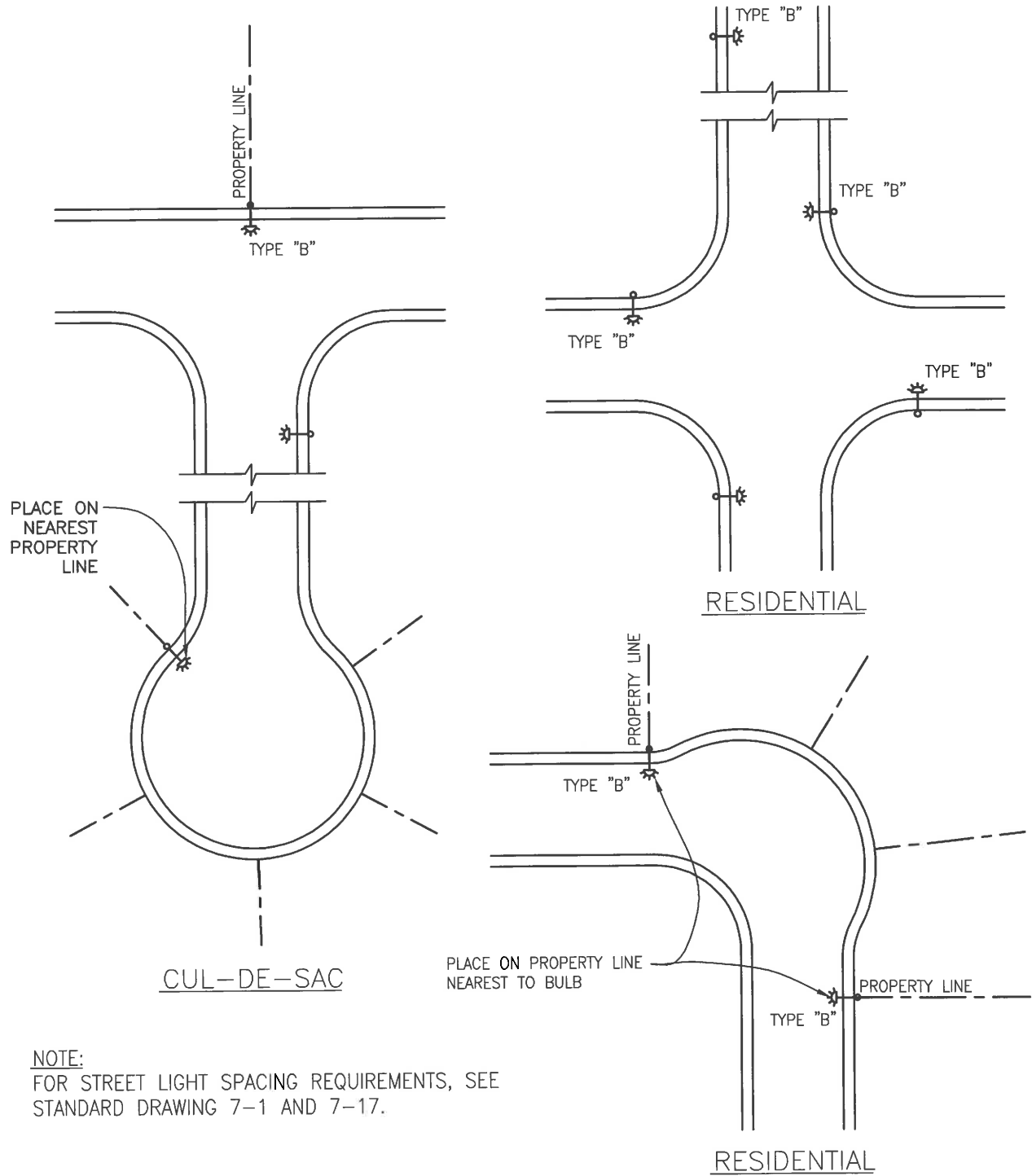
DWG #

4-5

Design of water facilities shall conform to the requirements set forth in the most recent standards of the Placer County Water Agency (PCWA), the National Fire Protection Association (NFPA 24), and the City of Rocklin Fire & Life Safety Standards.

CITY OF ROCKLIN ENGINEERING DIVISION	
FIRE STANDARDS	
SCALE: NONE DATE: OCTOBER 2016 DRAWN BY: J. PINKHAM	DWG # 6—1

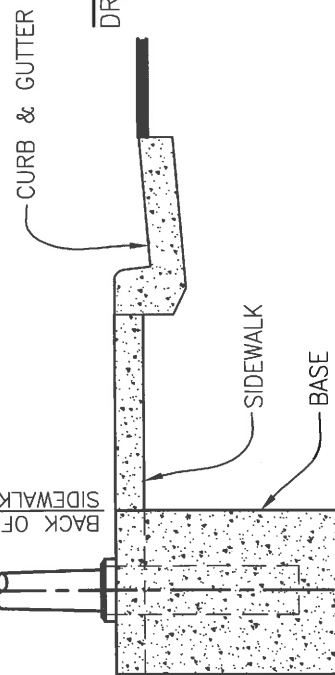
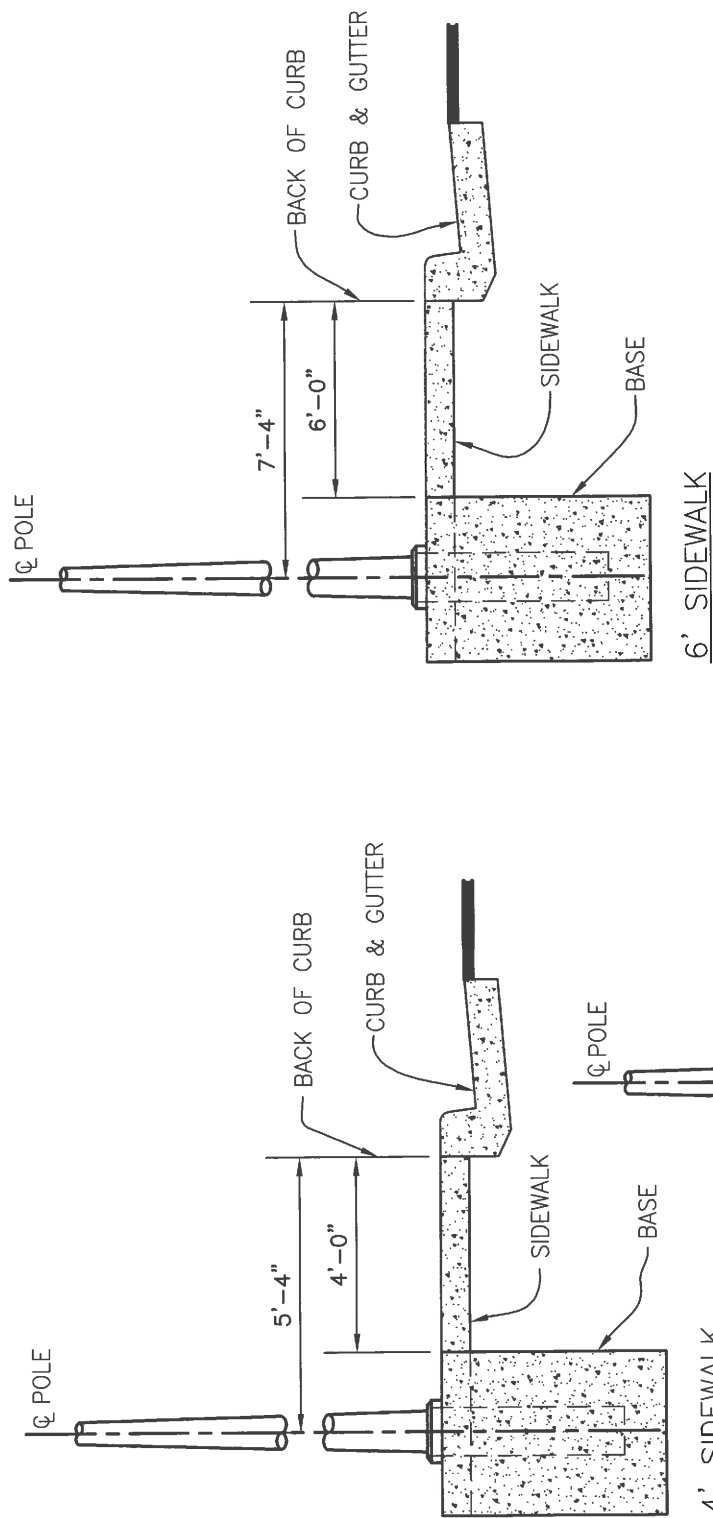




NOTE:
FOR STREET LIGHT SPACING REQUIREMENTS, SEE
STANDARD DRAWING 7-1 AND 7-17.

DRAWING APPROVED – CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
STREET LIGHT LOCATIONS ON RESIDENTIAL STREETS	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-2
DRAWN BY: J. PINKHAM	



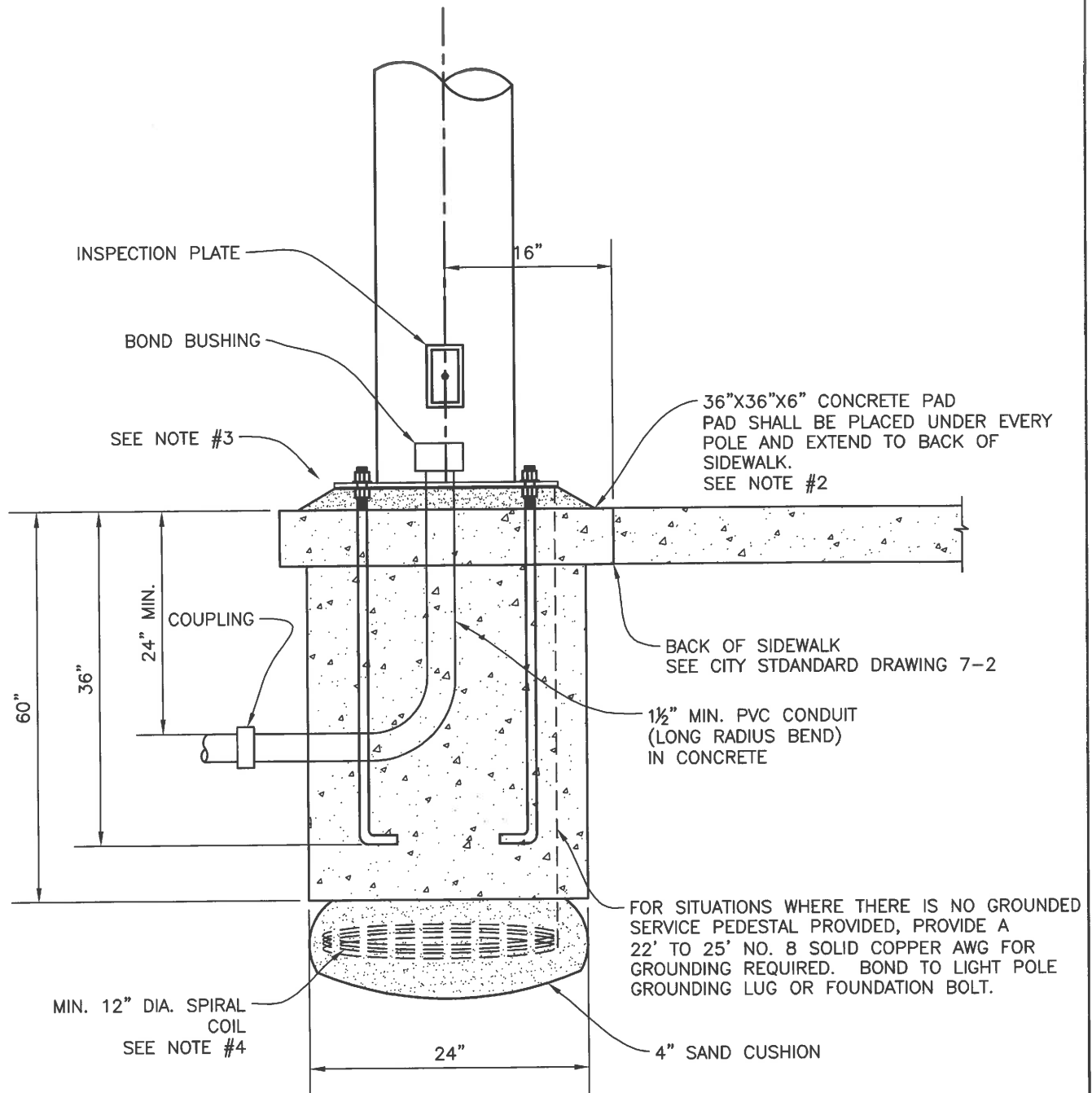
VARIABLE SIDEWALK WIDTH
(OVER 6')

[Signature]

DRAWING APPROVED - CITY ENGINEER

CITY OF ROCKLIN
ENGINEERING DIVISION
BASE LOCATION
FOR
STREET LIGHTS

SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-3
DRAWN BY: J. PINKHAM	

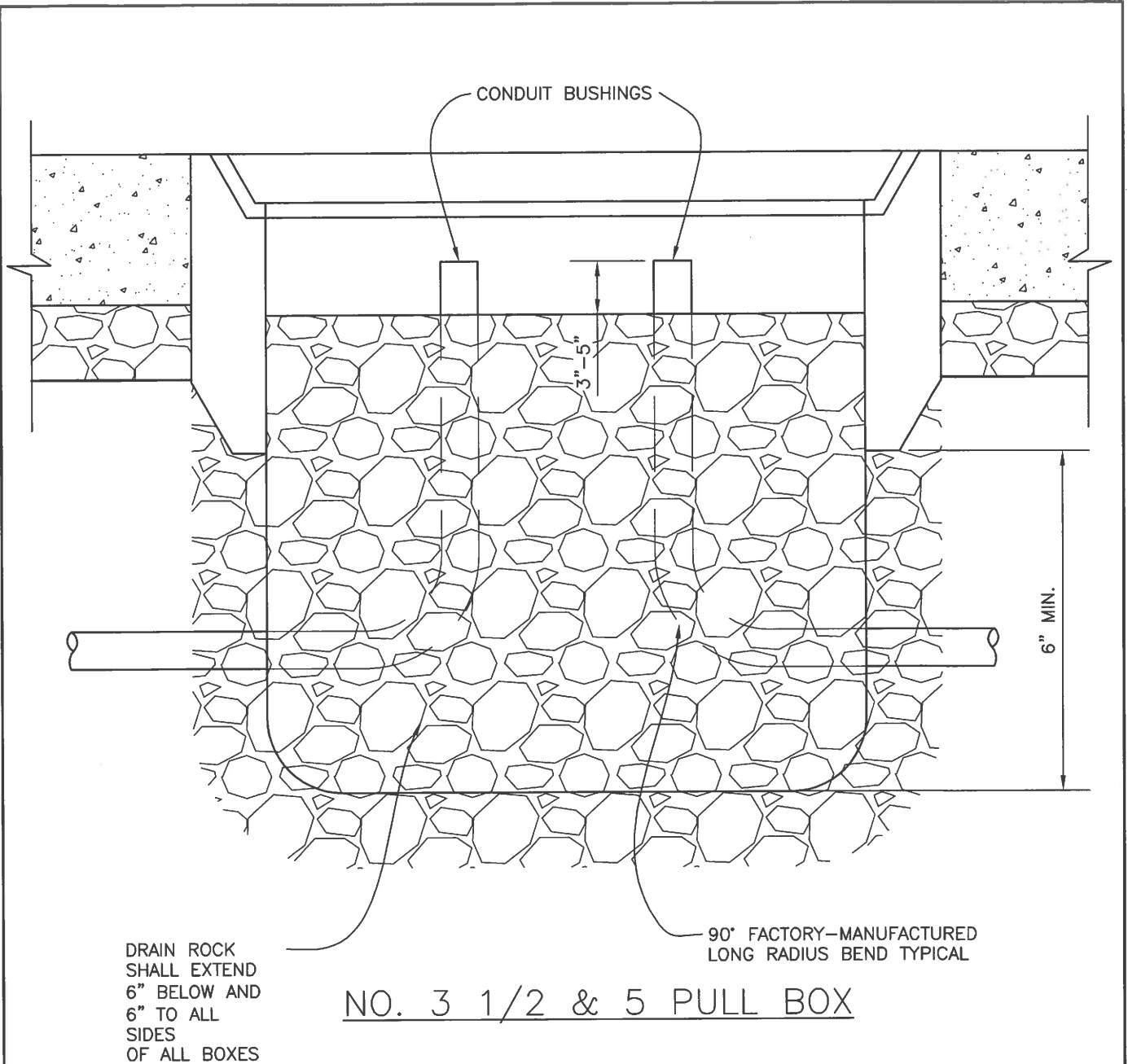


NOTES:

1. DESIGN SHALL CONFORMS TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. FOR AREAS WITHOUT SIDEWALK ADJACENT TO TRAVELED WAY, CONSTRUCT A 36"X36" CONCRETE PAD 6" THICK.
3. LEVELING OF BASE SHALL CONFORM TO THE REQUIREMENTS OF CITY STANDARD DRAWING 7-17.
4. 12" DIAMETER SPIRAL COIL REQUIRED ON DIRECT SERVICE CONNECTION ONLY. SEE CITY STANDARD DRAWING 7-18.

[Signature]
DRAWING APPROVED - CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
CONCRETE BASE DETAIL FOR TYPE "A" AND "B" STREET LIGHTS	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-4
DRAWN BY: J. PINKHAM	



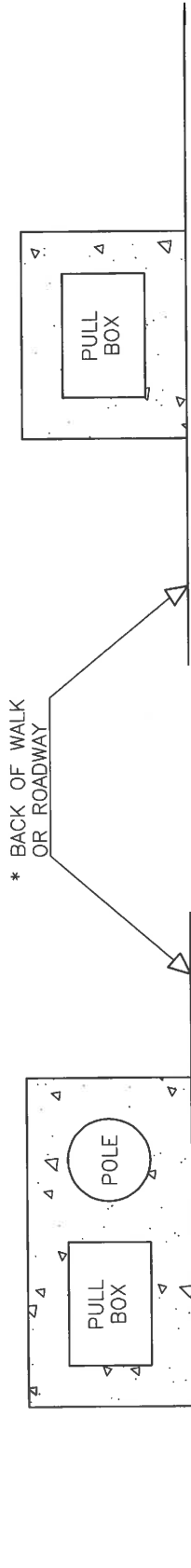
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. PULLBOX COVERS SHALL BE BOLTED AND INSCRIBED "STREET LIGHTING".
3. ALL PULLBOXES SHALL BE ENCOMPASSED BY 6" CURB MINIMUM.
4. SEE CITY STANDARD DRAWING 7-6 FOR CURB DETAIL.
5. CONDUIT BUSHINGS TO BE INSTALLED ON ALL CONDUIT ENDS
6. ALL CONDUIT ENDS TO BE SEALED WITH DUCT SEAL

[Signature]

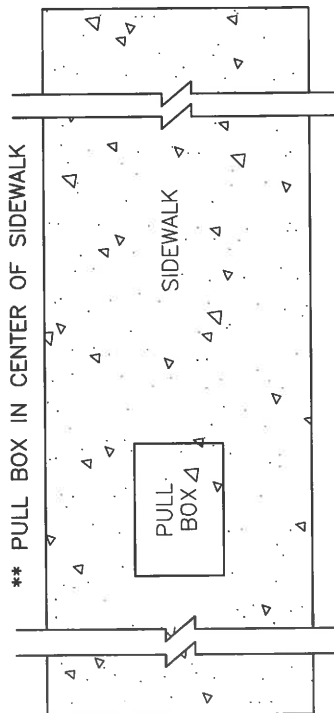
DRAWING APPROVED – CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
NO. 3 1/2 AND NO. 5 PULL BOX INSTALLATION	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 7-5



** CONCRETE COLLAR/CAP TO SURROUND PULL BOX & POLE 6" MINIMUM WITH 6" CONCRETE DEPTH. (THICKNESS)

** PULL BOX IN CENTER OF SIDEWALK



NOTES:

1. SEE CITY STANDARD DRAWING 7-5 FOR PULL BOX INSTALLATION SPECIFICATIONS.
2. SEE CITY STANDARD DRAWING 7-4 FOR CONCRETE BASE DETAIL.
3. PULL BOX AT EACH STREET LIGHT AND LATERAL STREET CROSSING.

CITY OF ROCKLIN
ENGINEERING DIVISION

STREET LIGHT

AND SIGNAL

PULL BOX LOCATIONS

SCALE: NONE

DATE: DECEMBER 2015

DRAWN BY: J. PINKHAM

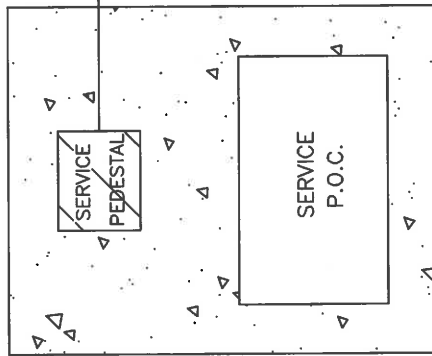
DWG #

7-6

[Signature]

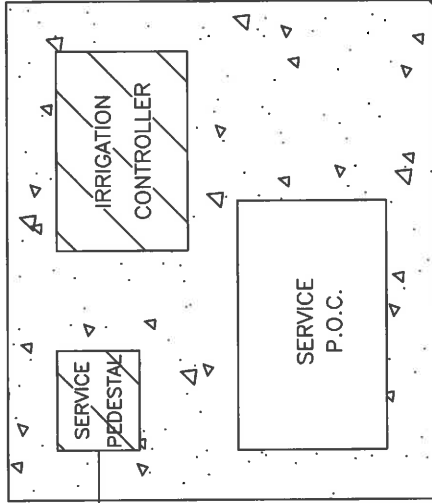
DRAWING APPROVED - CITY ENGINEER

STREET LIGHT
PEDESTAL PAD



REFER TO
DRAWING
7-8

STREET LIGHT &
IRRIGATION PAD

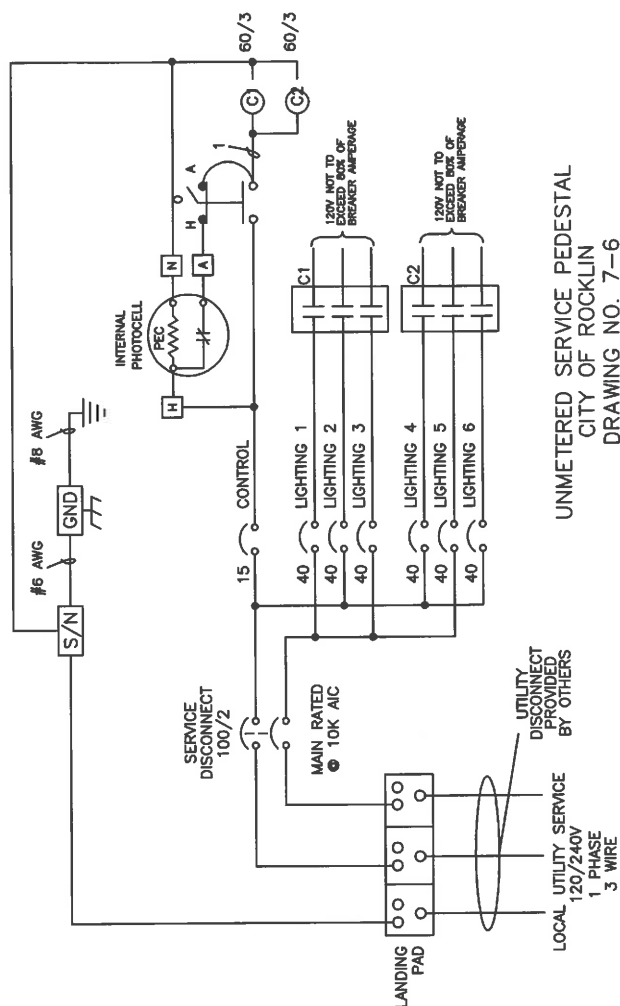


* BACK OF WALK
OR ROADWAY

** NOTE - UTILITY (PG&E)
P.O.C (POINT OF CONNECTION) SHALL BE
NO MORE THAN FIVE FEET FROM ANY SERVICE.
P.O.C. BOX & CONDUIT SHALL BE INSTALLED
PER CURRENT PG&E GREEN BOOK STANDARDS.

DRAWING APPROVED - CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
TYPICAL	
STREET LIGHT SERVICE PAD	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-7
DRAWN BY: J. PINKHAM	

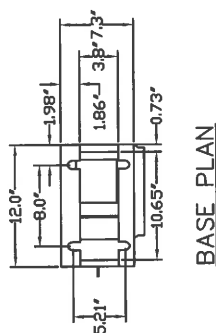
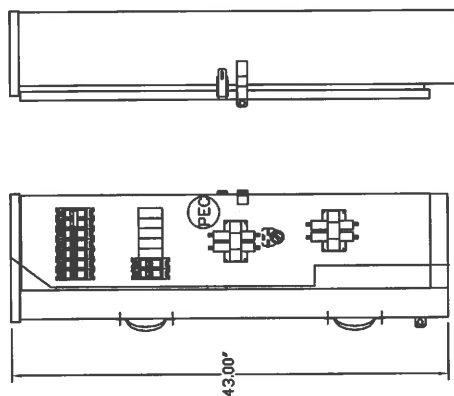


NOTE: LOAD CURRENT FOR ALL BREAKERS NOT TO EXCEED 80% OF BREAKER AMPERAGE

ENCLOSURE CONSTRUCTION NOTES

1. EXTERIOR, 1/8" ALUMINUM, AND INTERIOR 14 GA COLD ROLLED STEEL ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION WILL BE NEMA 3R, RAIN TIGHT.
3. ALL NUTS, BOLTS AND SCREWS WILL BE STAINLESS STEEL.
4. NUTS, BOLTS & SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
5. NAMEPLATES WILL BE PROVIDED AS REQUIRED.
6. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA AND UL 508A STANDARDS.
9. ANODIZE AFTER FABRICATION

FRONT VIEW RIGHT SIDE



BASE PLAN

TECHO

INDUSTRIAL CONTROL PANEL

VOLTS 250-000
THERMISTOR T-
WATTAGE 1/2
AMPERES 1/2
VOLTAGES 142
150/240 1 3 100 60

SUITABLE FOR USE AS A SERVICE CAPABLE OF
ALL VOLTAGES NOT MORE THAN
AMPERES AT

METER MOVEMENTS	M.A.	A CONT.
UNCALIBRATED	3,000	RMS STD. 240 V

SUITABLE ONLY FOR USE AS
SERVICE EQUIPMENT

**SUITABLE ONLY FOR USE AS
STREET FURNITURE**

CITY OF ROCKLIN
ENGINEERING DIVISION

UNMETERED

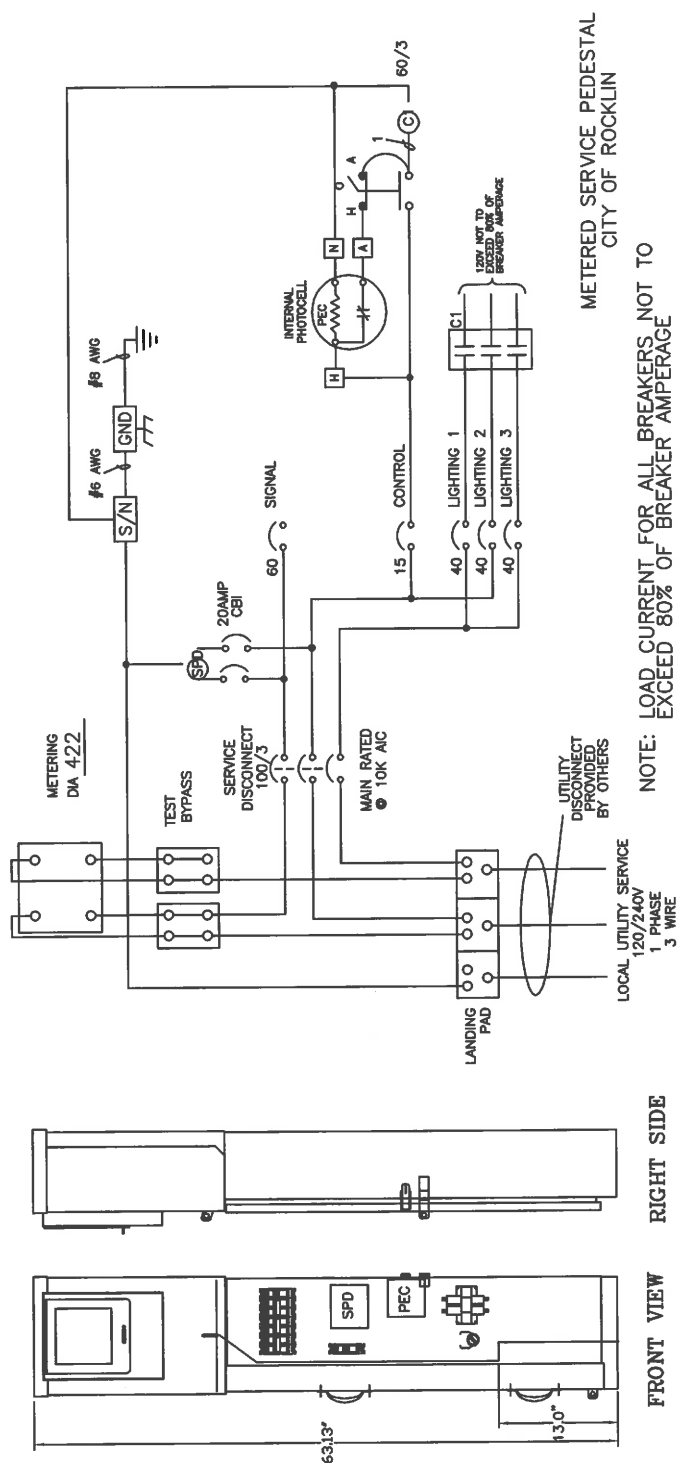
SERVICE
PEDESTAL

SCALE: NONE	DWG #
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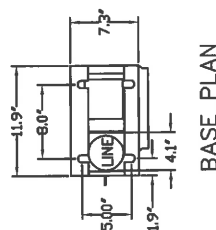
DATE: DECEMBER 2015

DRAWN BY: J. PINKHAM

DRAWING APPROVED - CITY ENGINEER



FRONT VIEW

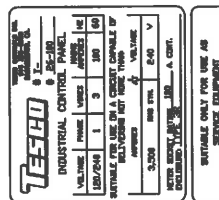


BASE PLAN

NOTE: LOAD CURRENT FOR ALL BREAKERS NOT TO EXCEED 80% OF BREAKER AMPERAGE

ENCLOSURE CONSTRUCTION NOTES

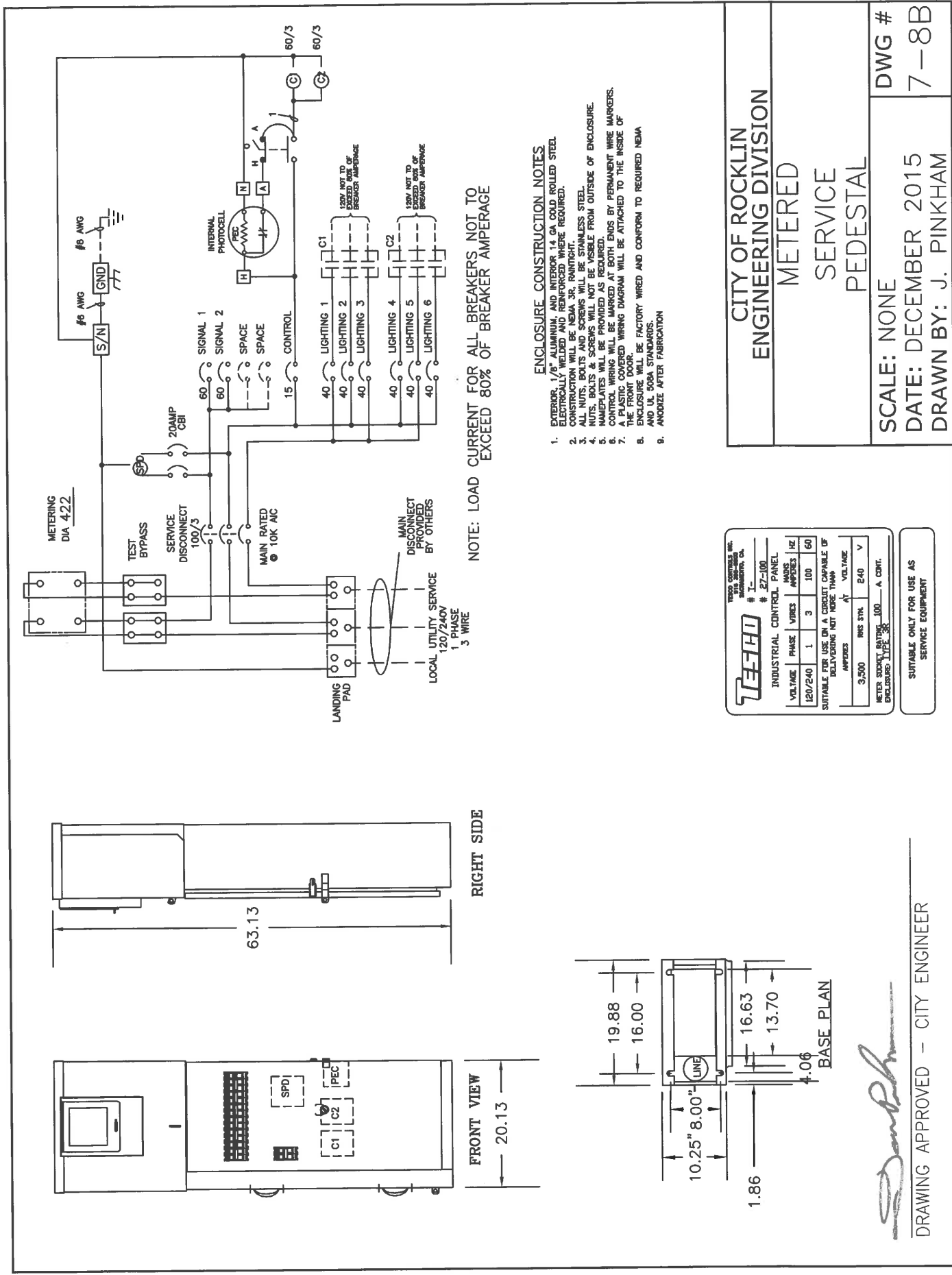
1. EXTERIOR, 1/8" ALUMINUM, AND INTERIOR 14 GA COLD ROLLED STEEL ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
2. CONSTRUCTION WILL BE NEMA 3R, RAINTIGHT.
3. ALL NUTS, BOLTS AND SCREWS WILL BE STAINLESS STEEL.
4. NUTS, BOLTS & SCREWS WILL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
5. NAMEPLATES WILL BE PROVIDED AS REQUIRED.
6. CONTROL WIRING WILL BE MARKED AT BOTH ENDS BY PERMANENT WIRE MARKERS.
7. A PLASTIC COVERED WIRING DIAGRAM WILL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
8. ENCLOSURE WILL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA AND UL 508A STANDARDS.
9. ANODIZE AFTER FABRICATION.

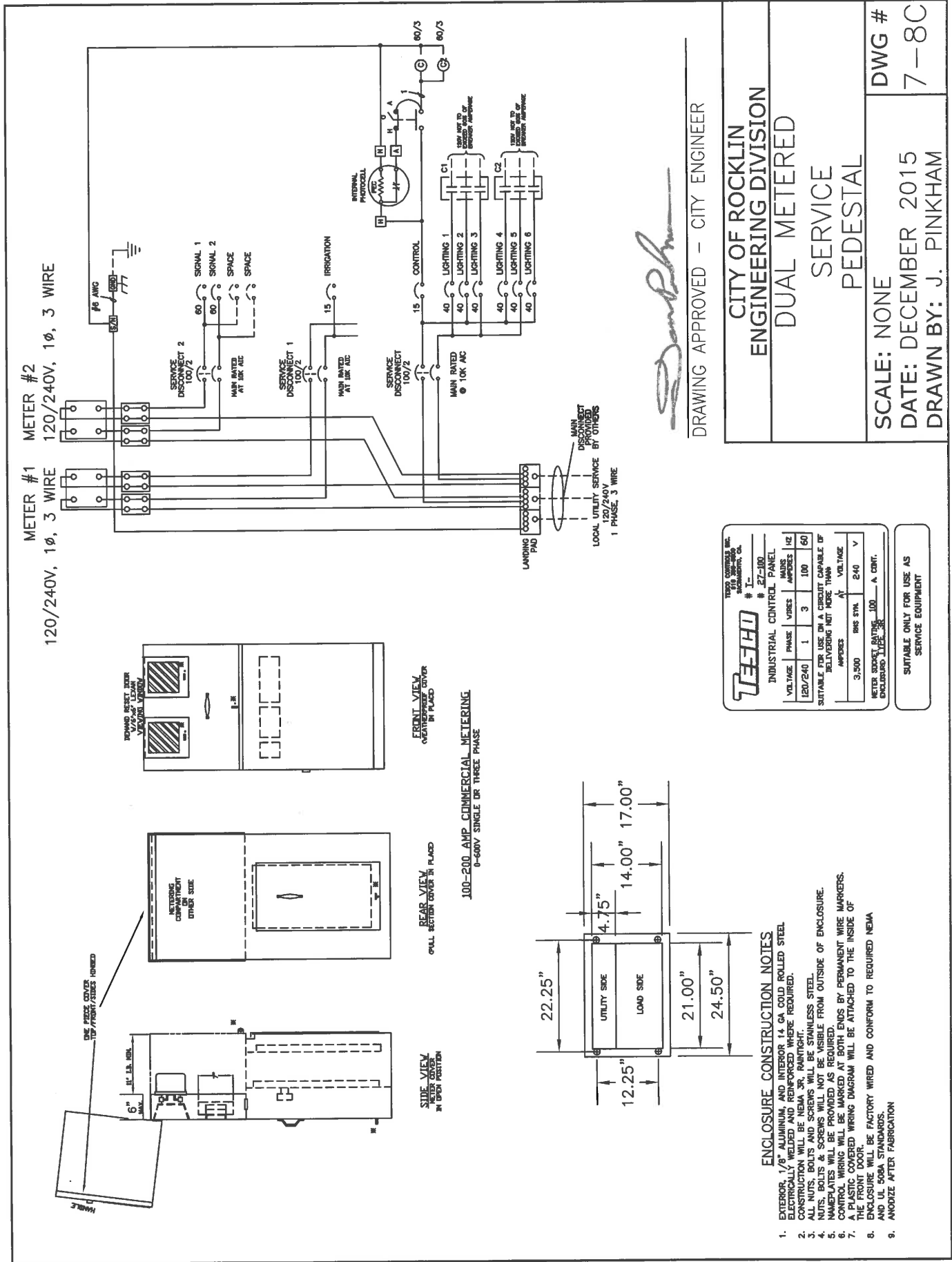
CITY OF ROCKLIN
ENGINEERING DIVISION

METERED
SERVICE
PEDESTAL

SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-8A
DRAWN BY: J. PINKHAM	

DRAWING APPROVED - CITY ENGINEER





DRAWING APPROVED – CITY ENGINEER

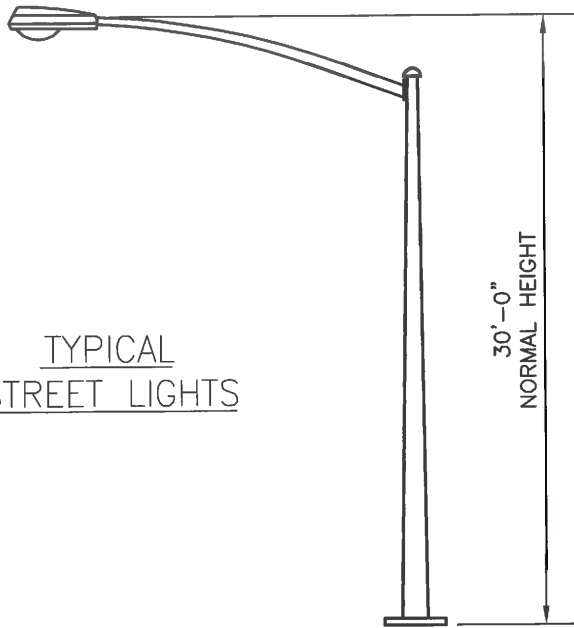
CITY OF ROCKLIN
ENGINEERING DIVISION

DUAL METERED
SERVICE
PEDESTAL

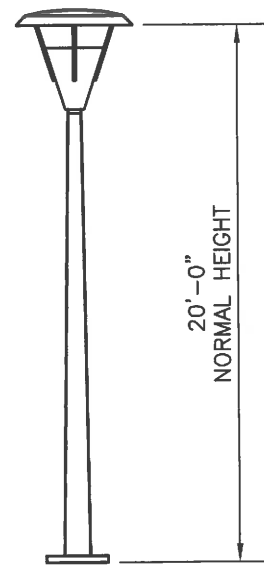
SCALE: NONE
DATE: DECEMBER 2015
DRAWN BY: J. PINKHAM

DWG #
7-8C

TYPICAL
STREET LIGHTS



TYPE "A"

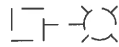
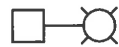


TYPE "B"

SYMBOLS

PROPOSED

EXISTING



TYPE "A" ①



TYPE "B" ②



PULLBOX



CONDUIT



PEDESTAL & SERVICE CAN



UTILITY SERVICE PEDESTAL



WOOD POLE

① SHALL BE STEEL, ALUMINUM, OR EXPOSED AGGREGATE AS APPROVED BY DIRECTOR.

② SHALL BE PRESTRESSED EXPOSED AGGREGATE OR ALUMINUM POLES.

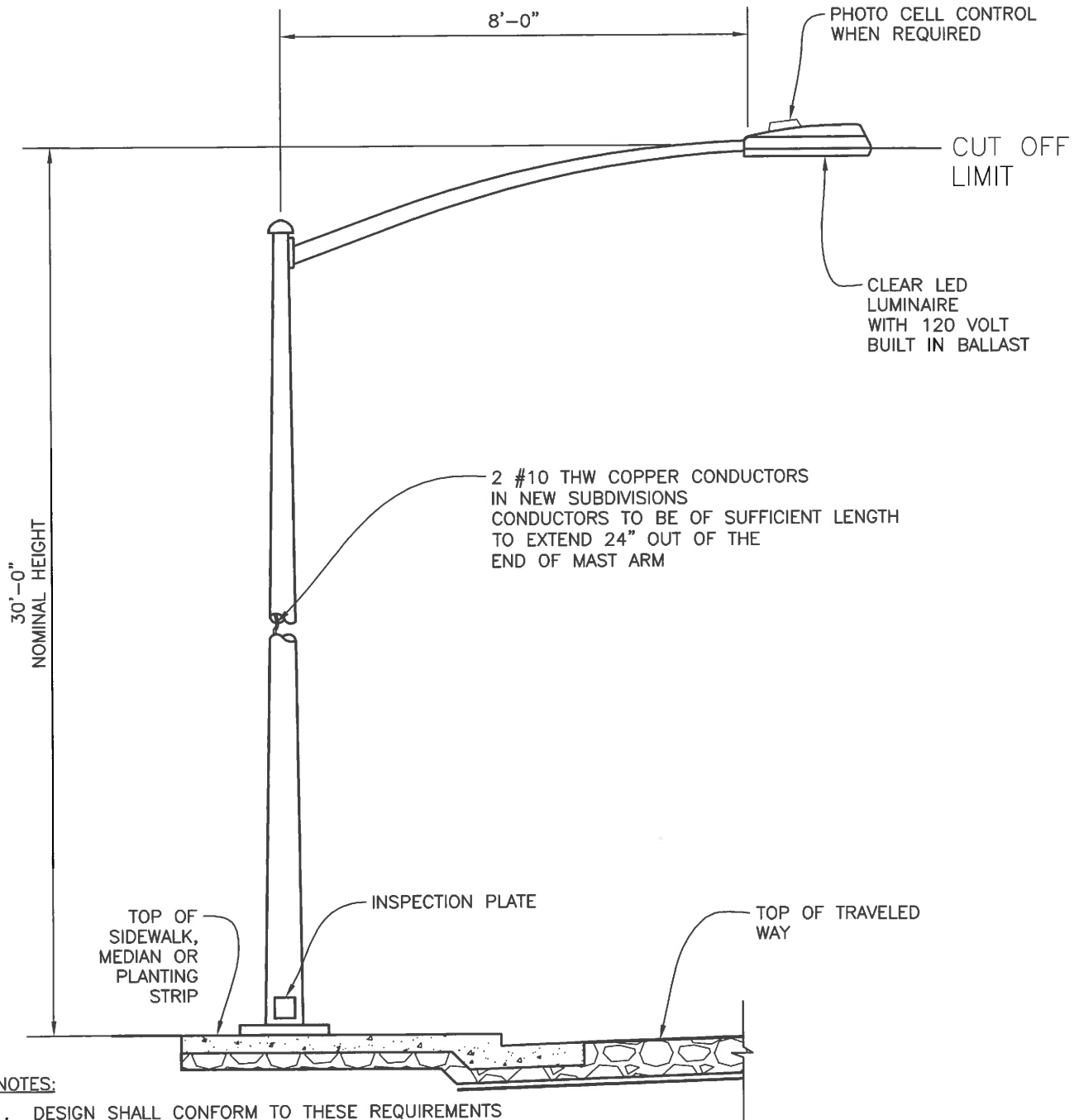
DRAWING APPROVED – CITY ENGINEER

CITY OF ROCKLIN
ENGINEERING DIVISION

STREET LIGHT
POLES
AND SYMBOLS

SCALE: NONE
DATE: DECEMBER 2015
DRAWN BY: J. PINKHAM

DWG #
7-9



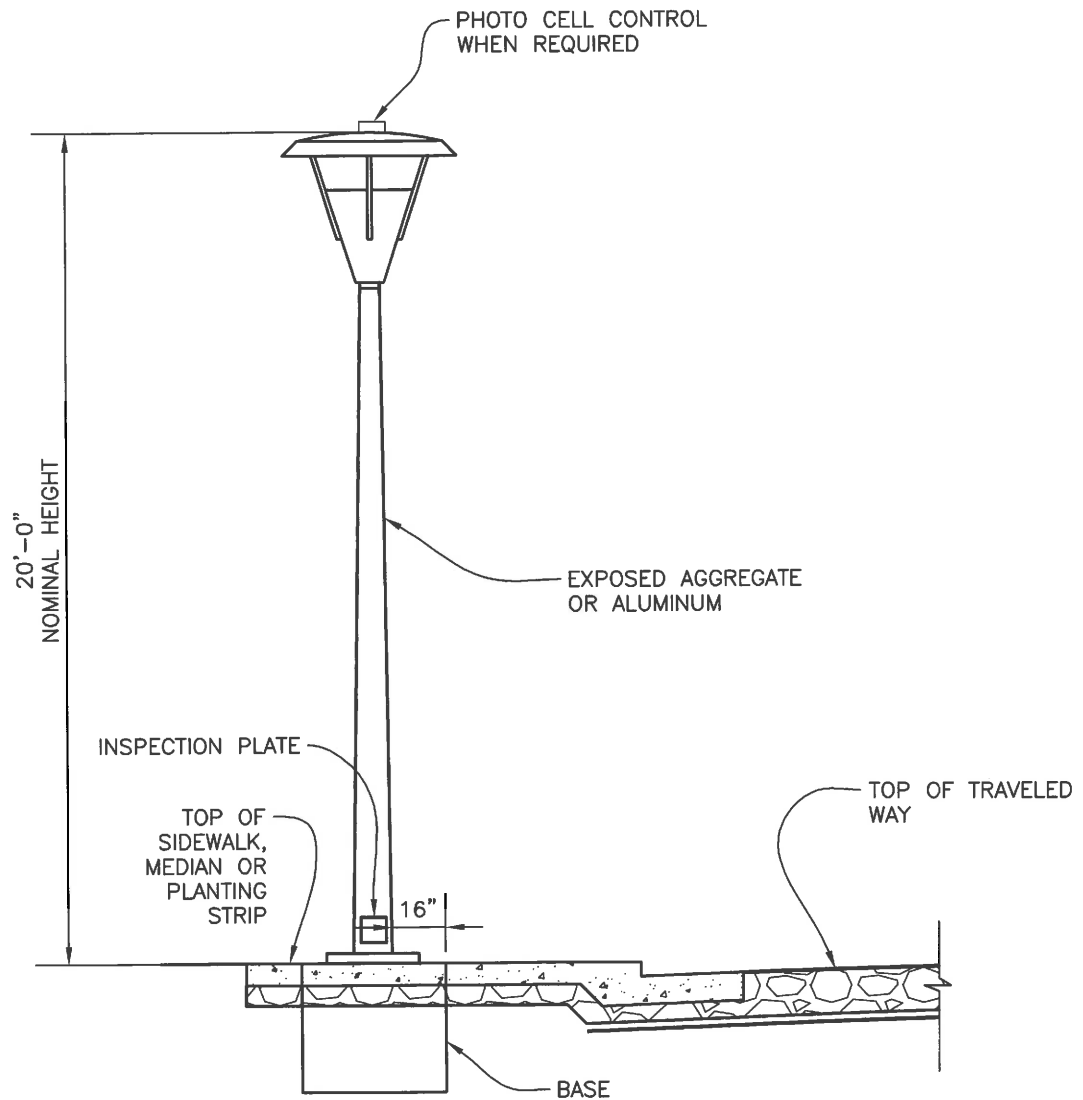
NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. FOR BASE DETAIL SEE CITY STANDARD DRAWING 7-4.
3. SEE CITY STANDARD DRAWING 7-3 FOR BASE LOCATION.

[Signature]

DRAWING APPROVED - CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
TYPE "A" STREET LIGHTS FOR MAJOR STREETS AND COLLECTORS	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-10
DRAWN BY: J. PINKHAM	

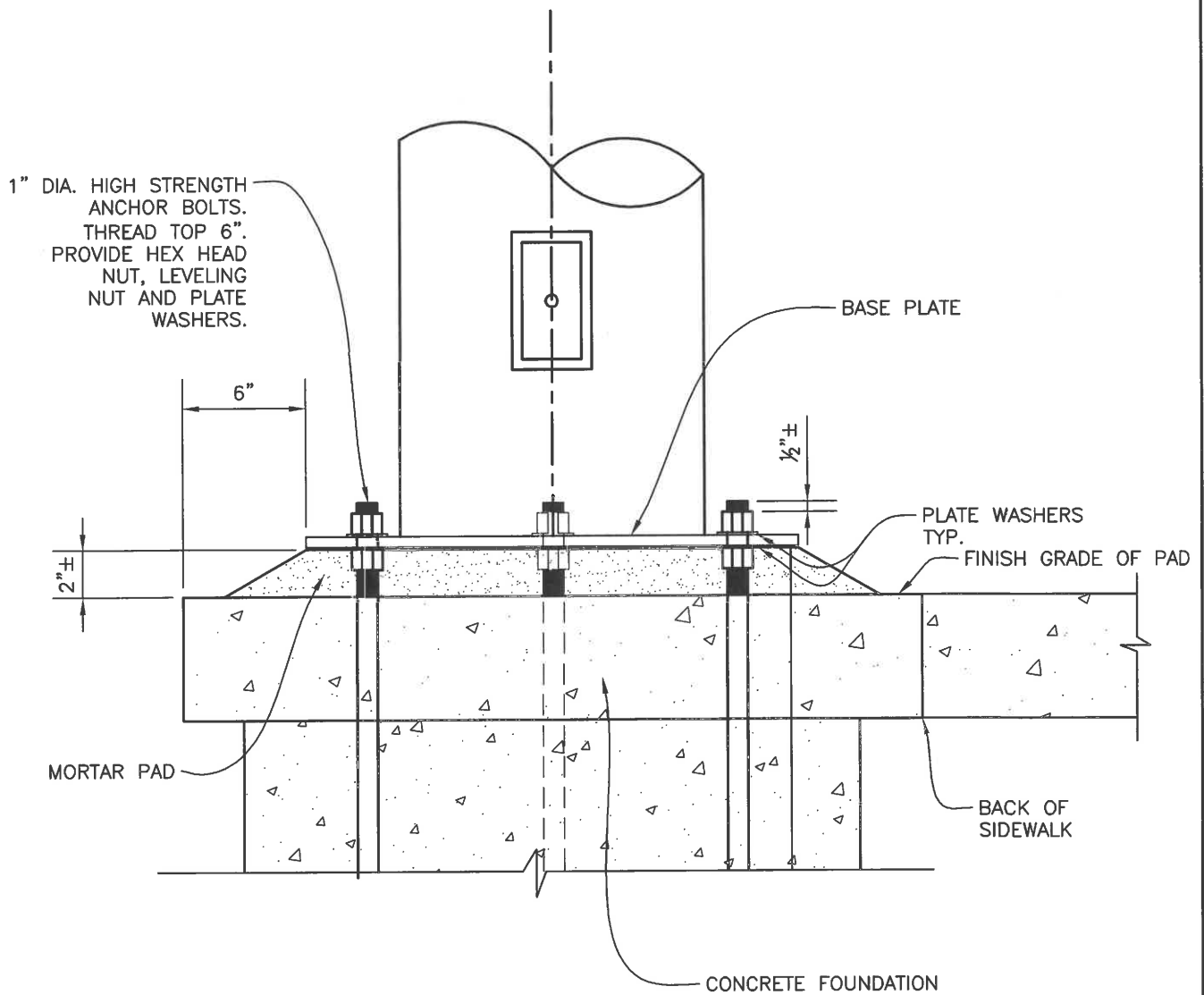


NOTES:

1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. FOR BASE DETAIL SEE CITY STANDARD DRAWING 7-4.
3. SEE CITY STANDARD DRAWING 7-3 FOR BASE LOCATION.

DRAWING APPROVED - CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
TYPE "B" STREET LIGHTS FOR MINOR STREETS	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 7-11



NOTES:

1. DESIGN SHALL CONFORMS TO THESE REQUIREMENTS EXCEPT AS OTHERWISE APPROVED BY THE CITY ENGINEER BY VARIANCE.
2. FOUNDATION BOLTS SHALL NOT BE CUT OFF FOR ANY REASON AND EXTENSION COUPLERS SHALL NOT BE PERMITTED.

[Signature]

DRAWING APPROVED – CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
STREET LIGHT BASE LEVELING DETAIL	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 7-12

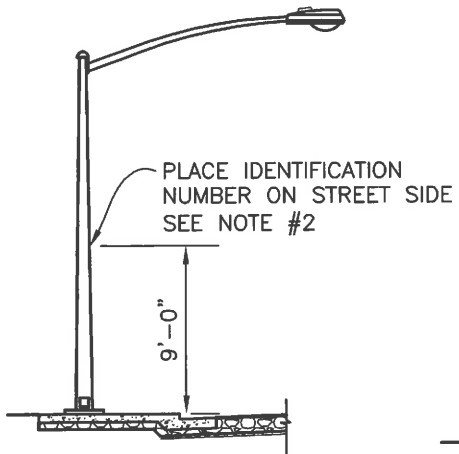


FIGURE 1
SINGLE LUMINAIRE

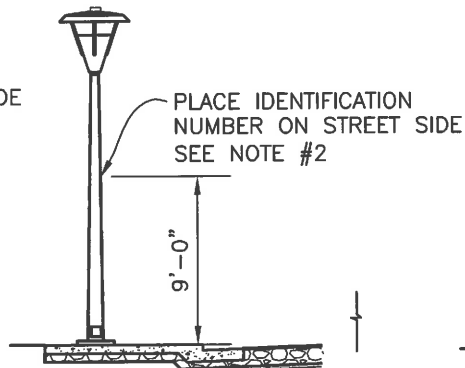


FIGURE 2
POST TOP LUMINAIRE

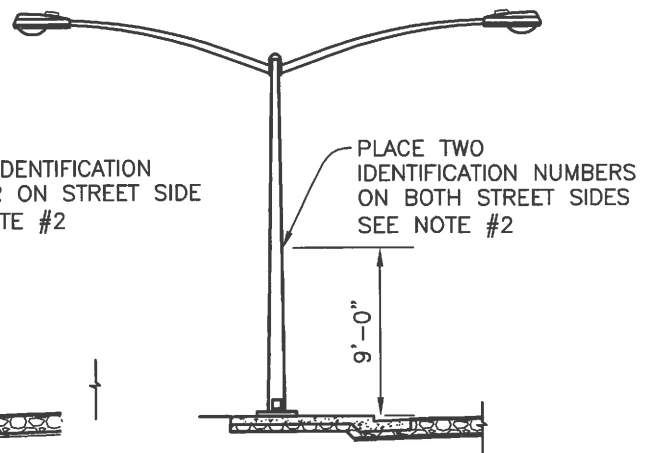


FIGURE 3
TWIN LUMINAIRE

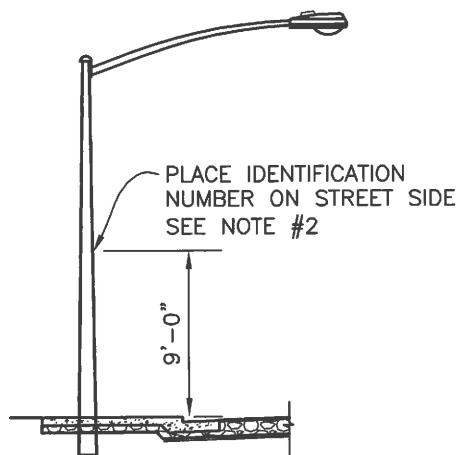


FIGURE 4
LUMINAIRE ON WOOD
STREET LIGHTING POLE

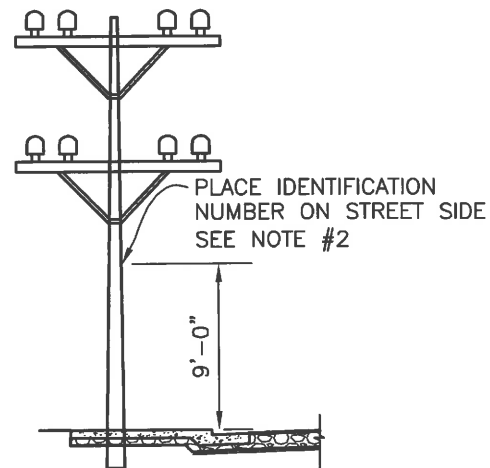


FIGURE 5
LUMINAIRE ON
DISTRIBUTION POLE

NOTES:

1. FIGURE 1, FIGURE 2 AND FIGURE 3 ARE METAL OR CONCRETE POLES OR POSTS.
2. IN THOSE INSTALLATIONS WHERE AESTHETICS ARE CONSIDERED IMPORTANT, THE IDENTIFICATION NUMBER MAY BE PLACED ON THE LOWER SIDE OF THE LUMINAIRE IN THE VICINITY OF THE 3"X3" LAMP IDENTIFICATION DECAL. ON POST TOP LUMINAIRES, IT MAY BE PUT ON THE BASE OF THE LUMINAIRE OR ON THE POLE BELOW THE LUMINAIRE.

DRAWING APPROVED – CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
TYPICAL PLACEMENT OF IDENTIFICATION DECALS ON LUMINAIRE POLES	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-13
DRAWN BY: J. PINKHAM	

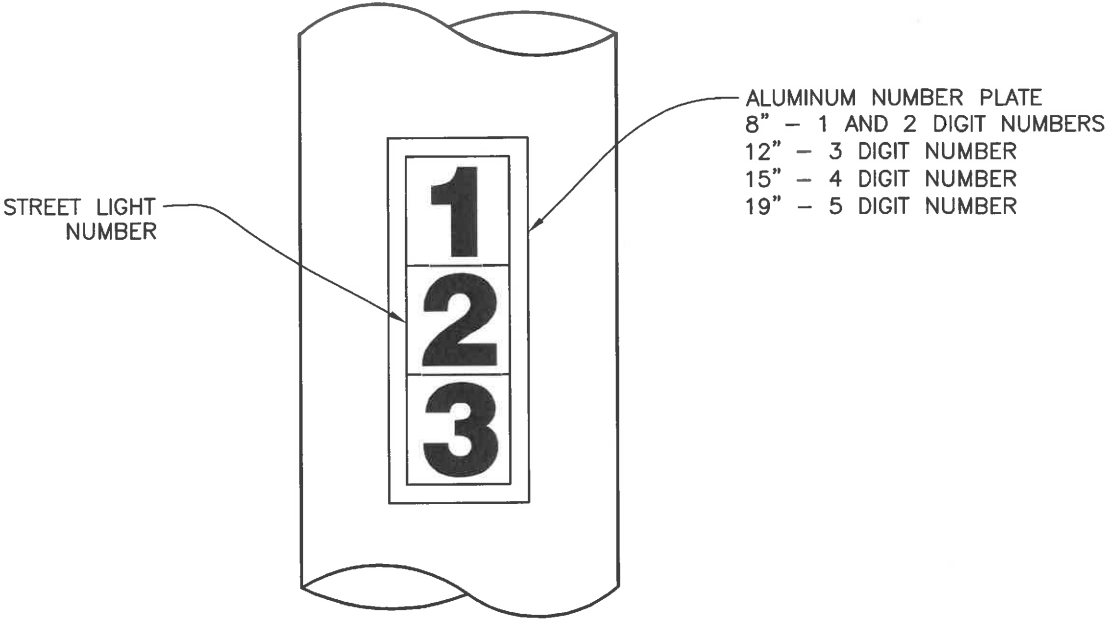


FIGURE 6
TYPICAL ARRANGEMENT OF NUMBERS ON POLE

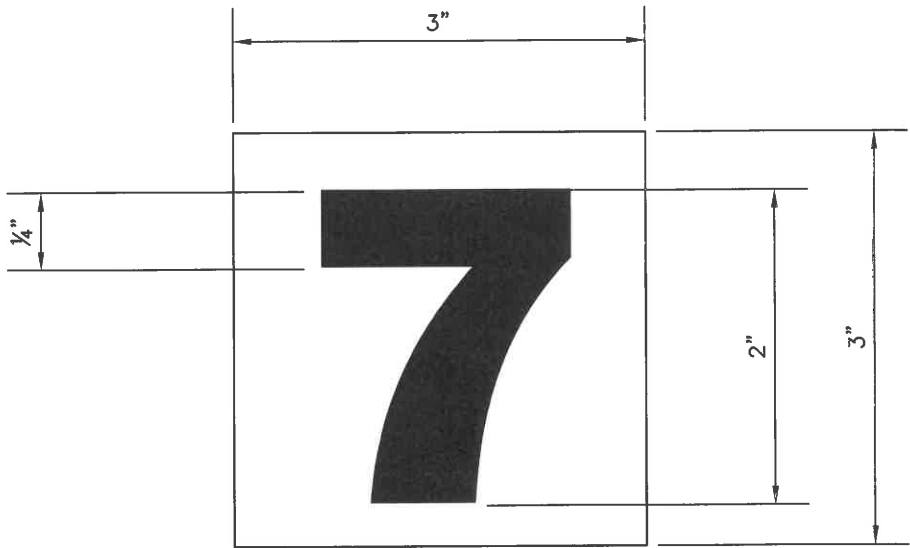


FIGURE 7


DRAWING APPROVED - CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
STREET LIGHT IDENTIFICATION DECALS	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 7-14

NOTES

1. INSTALLATION INSTRUCTIONS FOR REFLECTIVE NUMERALS AND LETTERS:
 - A. CLEAN AND THOROUGHLY DRY THE APPLICATION AREA.
 - B. PEEL BACKING PAPER OFF REFLECTIVE NUMERAL AND APPLY.
 - C. PRESS REFLECTIVE NUMERAL FIRMLY FROM CENTER OUTWARD TO REMOVE ANY ENTRAPPED AIR.
2. COLOR: BLACK NUMBERS AND LETTERS WITH A REFLECTIVE SILVER BACKGROUND.

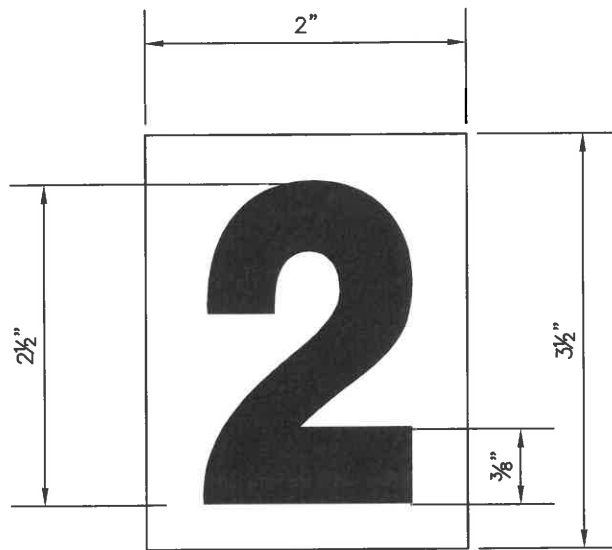


FIGURE 4
SCOTCHLITE REFLECTIVE NUMERALS

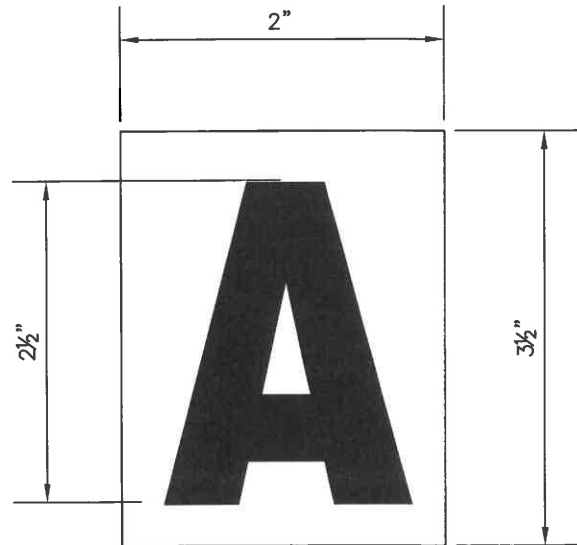
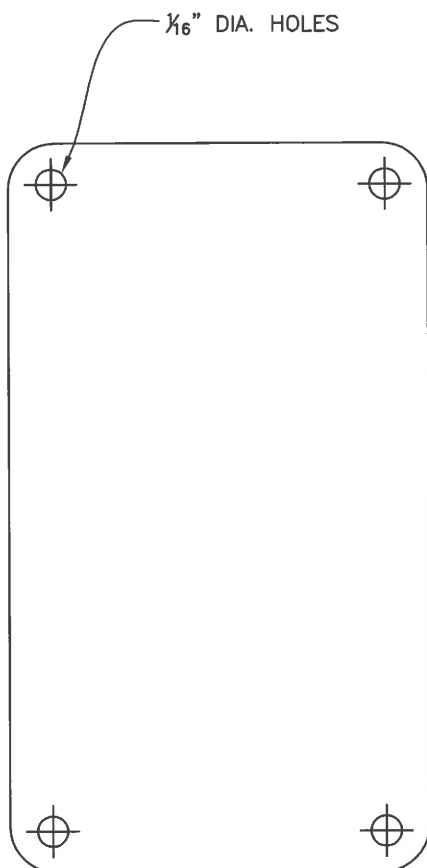


FIGURE 5
SCOTCHLITE REFLECTIVE LETTERS

[Signature]

DRAWING APPROVED – CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
REFLECTIVE NUMERALS AND LETTERS FOR STREET LIGHT MARKING	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-15
DRAWN BY: J. PINKHAM	



TYPICAL ALUMINUM
NUMBER PLATE

DIMENSIONS	COLOR
2 1/2" X 8" X .020	NON REFLECTIVE WHITE
2 1/2" X 12" X .020	
2 1/2" X 15" X .020	
2 1/2" X 19" X .020	
2 1/2" X 24" X .020	

DRAWING APPROVED – CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
ALUMINUM NUMBER PLATES	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 7-16

STREET CLASSIFICATION	ST. TYPE & R/W WIDTH	TYPE STREET LIGHT	NORMAL MOUNTING HEIGHT	AVERAGE MAINTAINED FOOTCANDLE	MAINTENANCE FACTOR
THOROUGHFARE	120'	A	30'	.70	.8
	90'	A	30'	.55	.8
ARTERIAL	80'	A	30'	.35	.8
COLLECTOR	66'	A	30'	.27	.8
	62'	A	20'	.16	.8
INDUSTRIAL COMMERCIAL	60'	A	30'	.24	.8
RESIDENTIAL	60'	B	20'	.13	.8
	50'	B	20'	.12	.8
	46'	B	20'	.11	.8
CUL-DE-SAC	42'	B	20'	.11	.8
PEDESTRIAN LANE	—	B	14'	.15	.8

1. LUMENS USED TO CALCULATE THE AVERAGE MAINTAINED FOOTCANDLE SHALL BE 80% OF INITIAL LUMEN VALUE RATED BY THE LAMP MANUFACTURER.

STREET CLASSIFICATION	ST. TYPE & R/W WIDTH	TYPE STREET LIGHT	NORMAL MOUNTING HEIGHT	LED WATTAGE	FRONT ON LOT	FRONT LOT OFF	LIGHT DISTRIBUTION PATTERN MIDBLOCK LOCATION
					SPACING (ONE SIDE ONLY)		
THOROUGHFARE	120'	A	30'	80/100 (SEE NOTE 4)	220	220	III
ARTERIAL	90'	A	30'	80	220	250	III
	80'	A	30'	80	220	250	III
	SPACING (BOTH SIDES)						
COLLECTOR	66'	A	30'	80	180		III
	62'	A	30'	80	200		
INDUSTRIAL COMMERCIAL	60'	A	30'	80	220		III
RESIDENTIAL	60'	B	20'	55	200		III
	50'	B	20'	55	200		III
	46'	B	20'	55	240		III
CUL-DE-SAC	42'	B	20'	55	240		III

1. LAMP WATTAGE SHOWN IS FOR LED ONLY. DESIGN CRITERIA MUST BE SUBMITTED FOR ALL OTHER LAMPS
2. SPACING MAY BE ADJUSTED $\pm 10\%$ TO ALLOW FOR DRIVEWAYS.
3. BACK-ON LOT SPACING MAY BE ADJUSTED TO 330 FT. IF BOTH SIDES OF THE STREET ARE LIGHTED.
4. DECO VS ROADWAY (COBRA)



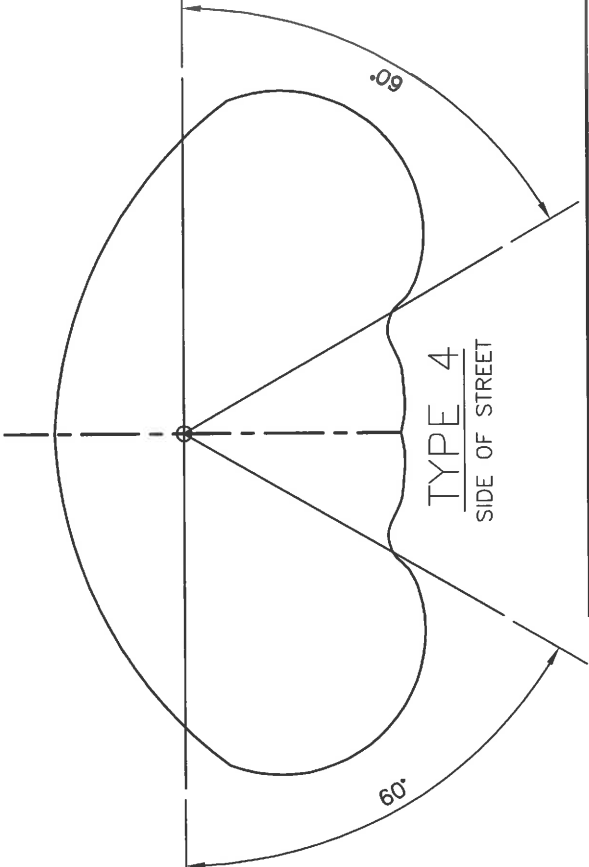
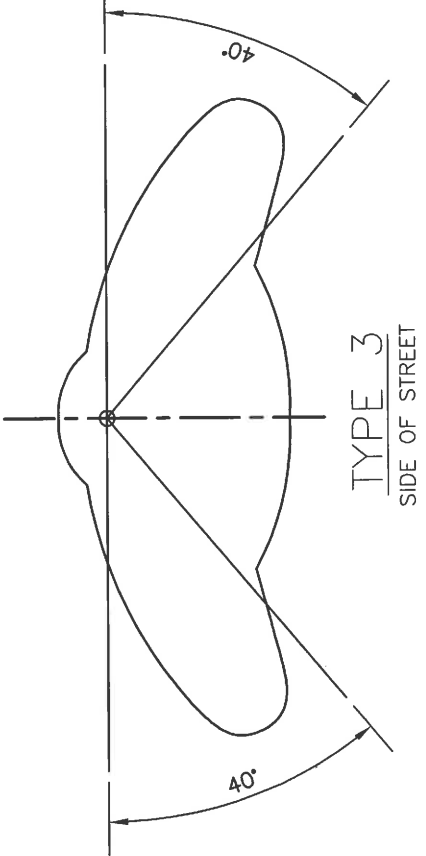
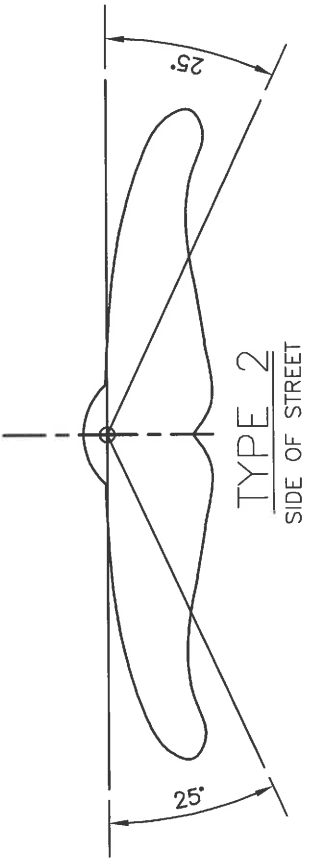
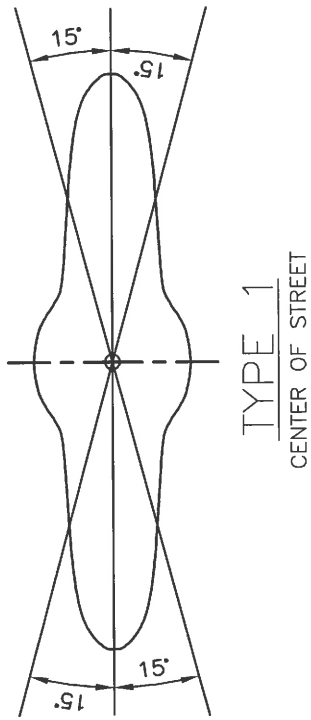
DRAWING APPROVED — CITY ENGINEER

**CITY OF ROCKLIN
ENGINEERING DIVISION**

**STREET LIGHTING
DESIGN
CRITERIA**

SCALE: NONE
DATE: DECEMBER 2015
DRAWN BY: J. PINKHAM

DWG #
7-17



CITY OF ROCKLIN ENGINEERING DIVISION		DWG #
LATERAL LIGHT DISTRIBUTION		7-18
SCALE: NONE	DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	


DRAWING APPROVED - CITY ENGINEER

TYPICAL VOLTAGE DROP CALCULATION FOR 3-WIRE SYSTEM

$$\text{VOLTAGE DROP (COPPER CONDUCTOR)} = \frac{D \times A \times N \times 11}{\text{CIRCULAR MILS}}$$

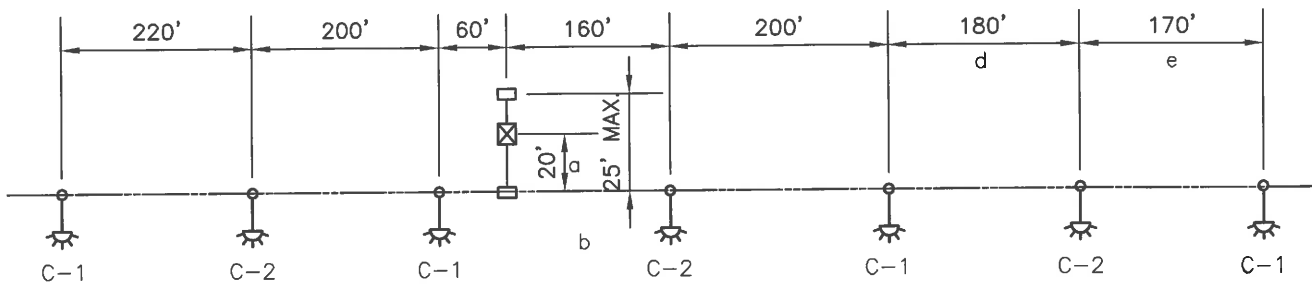
D = LENGTH OF SECTION, IN FEET

A = LINE OPERATING AMPERES DRAWN BY ONE LIGHT

N = NUMBER OF LIGHTS IN THE CIRCUIT BEYOND THE SECTION

WIRE SIZE	AREA (CIRCULAR MILS)
14	4,110
12	6,530
10	10,380
8	16,510
6	26,250
4	41,740

LINE OPERATING AMPERES FOR LED LUMINAIRES	
55 WATTS39 AMPS
80 WATTS74 AMPS
101 WATTS	1.38 AMPS



SAMPLE MULTIPLE STREET LIGHTING SYSTEM

SAMPLE CALCULATION:

FIND TOTAL VOLTAGE DROP IN CIRCUIT #1
(115 VOLT SYSTEM)

VOLTAGE DROP CALCULATION:

$$\begin{aligned} \text{SECTION a} &= \frac{20 (2.9 \times 4) (11)}{6530} = 0.39 \\ \text{SECTION b + c} &= \frac{360 (2.9 \times 2) (11)}{6530} = 3.52 \\ \text{SECTION d + e} &= \frac{350 (2.9 \times 1) (11)}{6530} = 1.71 \\ \text{TOTAL VOLTAGE DROP} &= 5.62 \end{aligned}$$

NOTE:

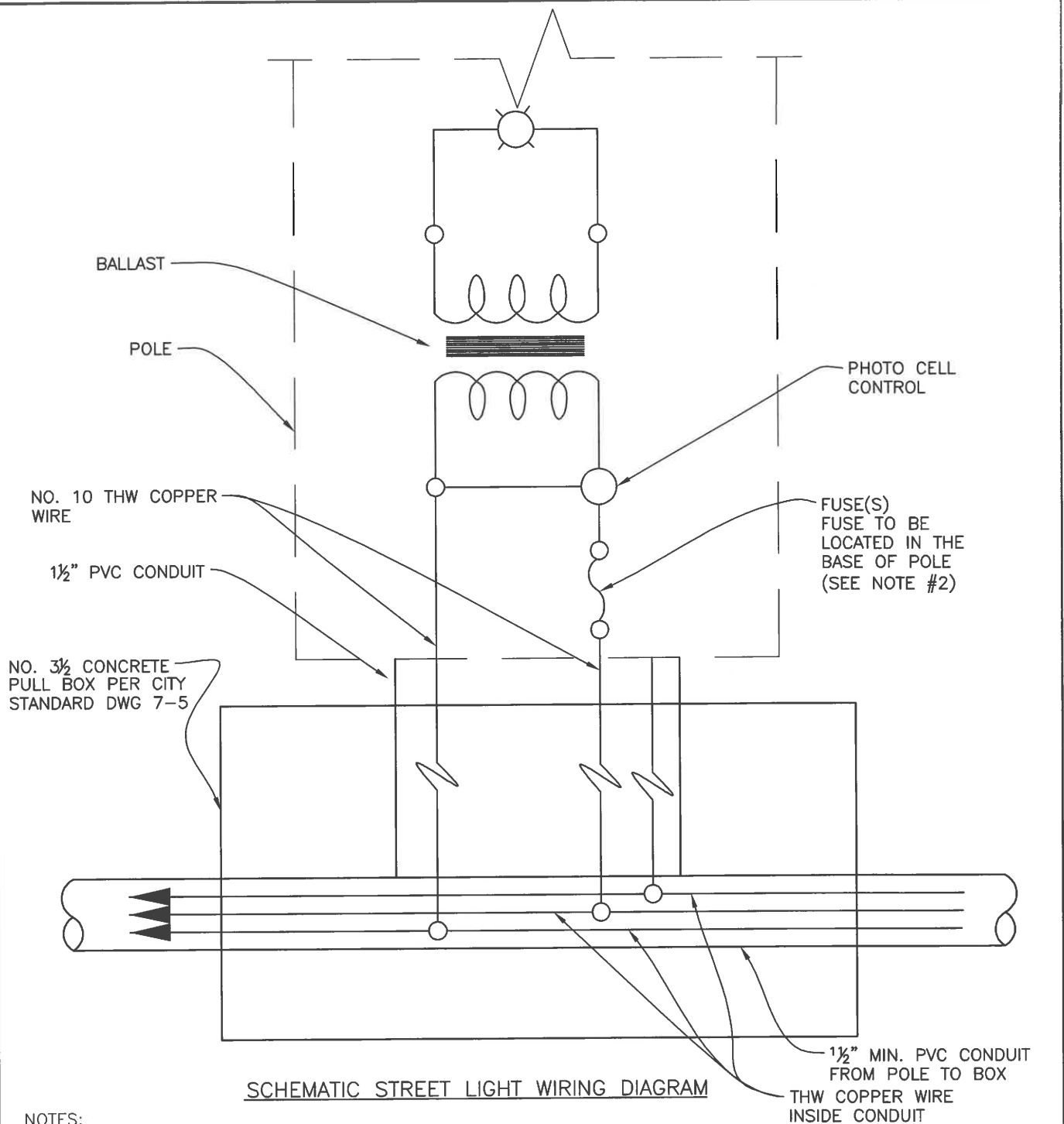
MAXIMUM VOLTAGE DROP ALLOWED = 5% OR 6 VOLTS

LEGEND

- LED LUMINAIRE
- C-1 CIRCUIT NUMBER
- SERVICE CAN
- PULL BOX
- CONDUIT WITH #10 A.W.G. CONDUCTORS

DRAWING APPROVED – CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
TYPICAL VOLTAGE DROP CALCULATION FOR 3-WIRE SYSTEM	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-19
DRAWN BY: J. PINKHAM	



SCHEMATIC STREET LIGHT WIRING DIAGRAM

NOTES:

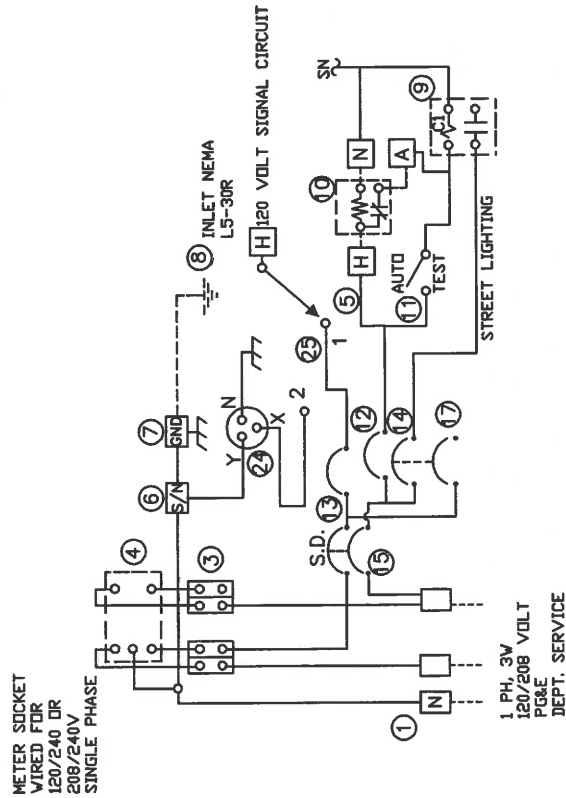
1. DESIGN SHALL CONFORM TO THESE REQUIREMENTS EXCEPT OTHERWISE APPROVED BY THE CITY ENGINEER.
2. FOR FUSING, NEC PRACTICES SHALL BE FOLLOWED. SEE MANUFACTURER SPECIFICATIONS FOR FUSING REQUIREMENTS.

[Signature]

DRAWING APPROVED - CITY ENGINEER

CITY OF ROCKLIN ENGINEERING DIVISION	
STREET LIGHT STANDARD WIRING DIAGRAM	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	7-20
DRAWN BY: J. PINKHAM	

SERVICE ENCLOSURE WIRING DIAGRAM



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DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

**CITY OF ROCKLIN
ENGINEERING DIVISION
TYPICAL SERVICE AND
WIRING SCHEDULE**

SCALE: NONE	DWG #
DATE: AUGUST 2015	8-1
DRAWN BY: J. PINKHAM	

TYPE III-AF SERVICE EQUIPMENT SCHEDULE		COMPONENT	NAME PLATE DESCRIPTION
①		NEUTRAL LUG	
②		LANDING LUG	
③		TEST BYPASS FACILITIES	
④		METER SOCKET AND SUPPORT	
⑤		TERMINAL BLOCKS	
⑥		SOLID NEUTRAL BUS	
⑦		GROUND BUS	
⑧		GROUND ROD	
⑨		35A MERCURY CONTACTOR	
⑩		PHOTO ELECTRIC UNIT	
⑪		15 AMP SWITCH SPST	LIGHTING TEST SWITCH
⑫		15A, 120V, 1P, CKT. BKR.	LIGHTING CONTROL
⑬		50A, 120V, 1P, CKT. BKR.	SIGNALS
⑭		20A, 240V, 1P, CKT. BKR.	STREET LIGHTS (TRAF. SIG.)
⑮		100A, 240V, 2P, CKT. BKR.	SERVICE DISCONNECT
⑰		20A, 120V, 1P, CKT. BKR.	SPARE
⑳		50A, 120V, FLANGED RECEPTACLE	
㉑		55A 120V 1P	TRANSFER SWITCH

- + PROVIDE 1 #10 GREEN PULLWIRE IN EACH CONDUIT
- ⊙ FURNISH AND INSTALL COMMScope ULTRA 11 ENHANCED CAT 5E CABLE, PART NUMBER 5NF4-4 TWISTED PAIR FLOODED CABLE OR APPROVED EQUAL.
- * FURNISH AND INSTALL IMSA-14-3/20-/-STR CAMERA POWER CABLE. CABLE SHALL BE 600 VOLT AND 90 DEGREE C. COLOR CODE 3/C: BLACK, WHITE AND GREEN (BELDEN PN601195 OR CITY APPROVED EQUAL.)

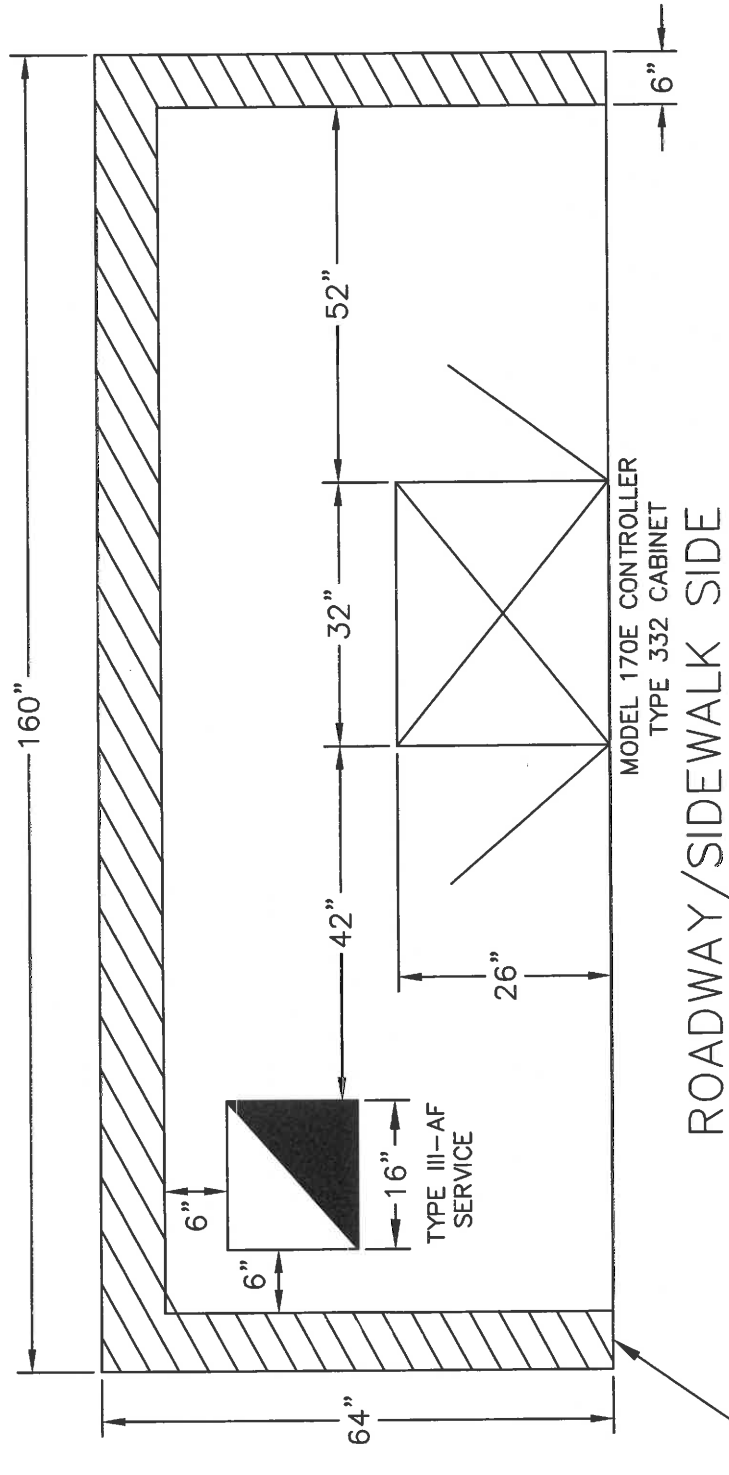

DRAWING APPROVED - CITY ENGINEER

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION
TYPICAL CONDUCTOR
SCHEDULE

SCALE: NONE
DATE: AUGUST 2015
DRAWN BY: J. PINKHAM
DWG # 8-3

CONDUCTOR SCHEDULE												
AWG	CIRCUIT	1	2	3	4	5	6	7	8	9	10	11
No. 14	Ø1	3	3	3	3	3	3	3	3	3	6	11
	Ø2						6	6	6	3	9	
	Ø3										12	
	Ø4										12	
	Ø5										6	
	Ø6										9	
	Ø7											
	Ø8											
	Ø2 PED						2	2	2	2	4	
	Ø4 PED										4	
	Ø6 PED						2	2	4	4		
	Ø8 PED											
	Ø2 PPB									1	1	2
	Ø4 PPB									1	2	2
	Ø6 PPB						1	1	2	2		
	Ø8 PPB											
No. 12	SPARES	6	12	12	15	21	6	33	6	42		
	P.E.U.									2		
	TOTAL No.14	17	30	30	44	57	18	57	15	116		
	PPB COMMON	1	1	1	1	1	1	2	1	2		
	LUMINAIRE	2	2	2	2	2	2	2	2	2		
	SIGNAL COMMON	1	1	1	1	1	1	2	1	2		
	PULL WIRE	1	1	1	1	1	1	1	1	1		
	ILL. STREET LIGHT											
	Ø1 DETECTORS					4		4		4		
	Ø2 DETECTORS									12	12	
	Ø3 DETECTORS				7	7	7	7		7		
	Ø4 DETECTORS								9	9		
	Ø5 DETECTORS									4	4	
	Ø6 DETECTORS					11		11		11		
	Ø7 DETECTORS											
	Ø8 DETECTORS											
DLC	TOTAL DLC		7	7	22	31	16	47				
	IC CABLE											
	EVA						1	1		1		
	EVB				1	1						
	EVC	1	1	1	1	1	1	1		1		
	EVD											
	TOTAL CABLES	1	1	1	2	2	1	3		4		
	OPTICOM											
	TOTAL CONDUCTORS											
	CONDUCTOR SIZES		3"	2.5"	3"	1.5"	3"	3"	2.5"			
	PERCENT FILL											
	PT2 CCTV WIFI CABLE ⊙											
	PT2 CCTV POWER CABLE *											



RETAINING CURB:

6" WIDTH W/ 6" MIN. HEIGHT
DEPENDING ON SLOPE TO THE BACK.
CURB TO BE DOWELED TO THE PAD
AT 24" CENTERS, OR MAY BE
POURED MONOLITHICALLY WITH PAD.
INSTALL 1/ #4 HORIZONTAL REBAR
THE FULL LENGTH OF THE CURB.

MINOR CONCRETE

**CITY OF ROCKLIN
ENGINEERING DIVISION**

TYPICAL CONTROLLER/
SERVICE CABINET DETAIL

SCALE: NONE	DWG #
DATE: AUGUST 2015	8-4
DRAWN BY: J. PINKHAM	

DRAWING APPROVED – CITY ENGINEER

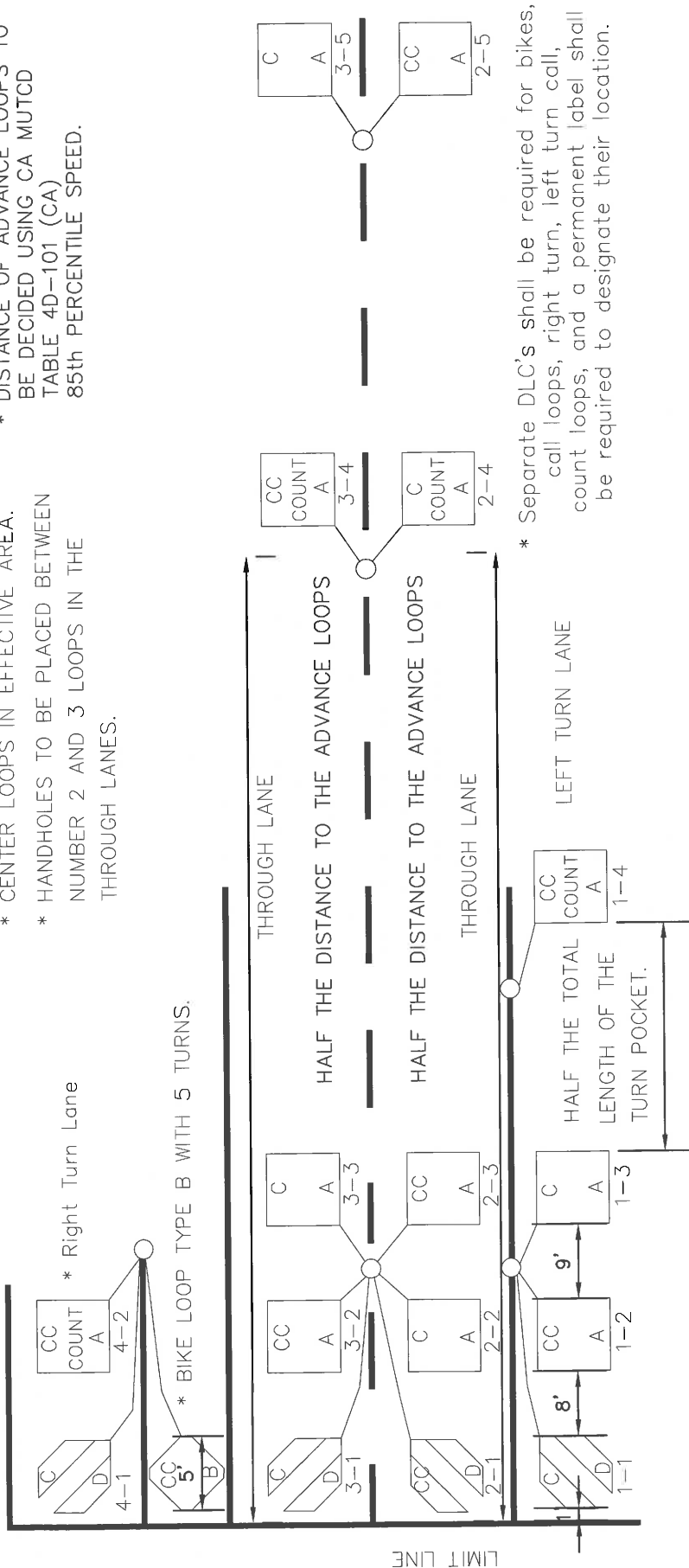
DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

* DISTANCE OF ADVANCE LOOPS TO BE DECIDED USING CA MUTCD TABLE 4D-101 (CA) 85th PERCENTILE SPEED.

- * CENTER LOOPS IN EFFECTIVE AREA.
- * HANDHOLES TO BE PLACED BETWEEN NUMBER 2 AND 3 LOOPS IN THE THROUGH LANES.

* Right Turn Lane

* BIKE LOOP TYPE B WITH 5 TURNS.



* Separate DLC's shall be required for bikes, call loops, right turn, left turn call, count loops, and a permanent label shall be required to designate their location.

[Signature]

DRAWING APPROVED - CITY ENGINEER

CITY OF ROCKLIN
ENGINEERING DIVISION

TYPICAL LOOP DETECTOR
LAYOUT

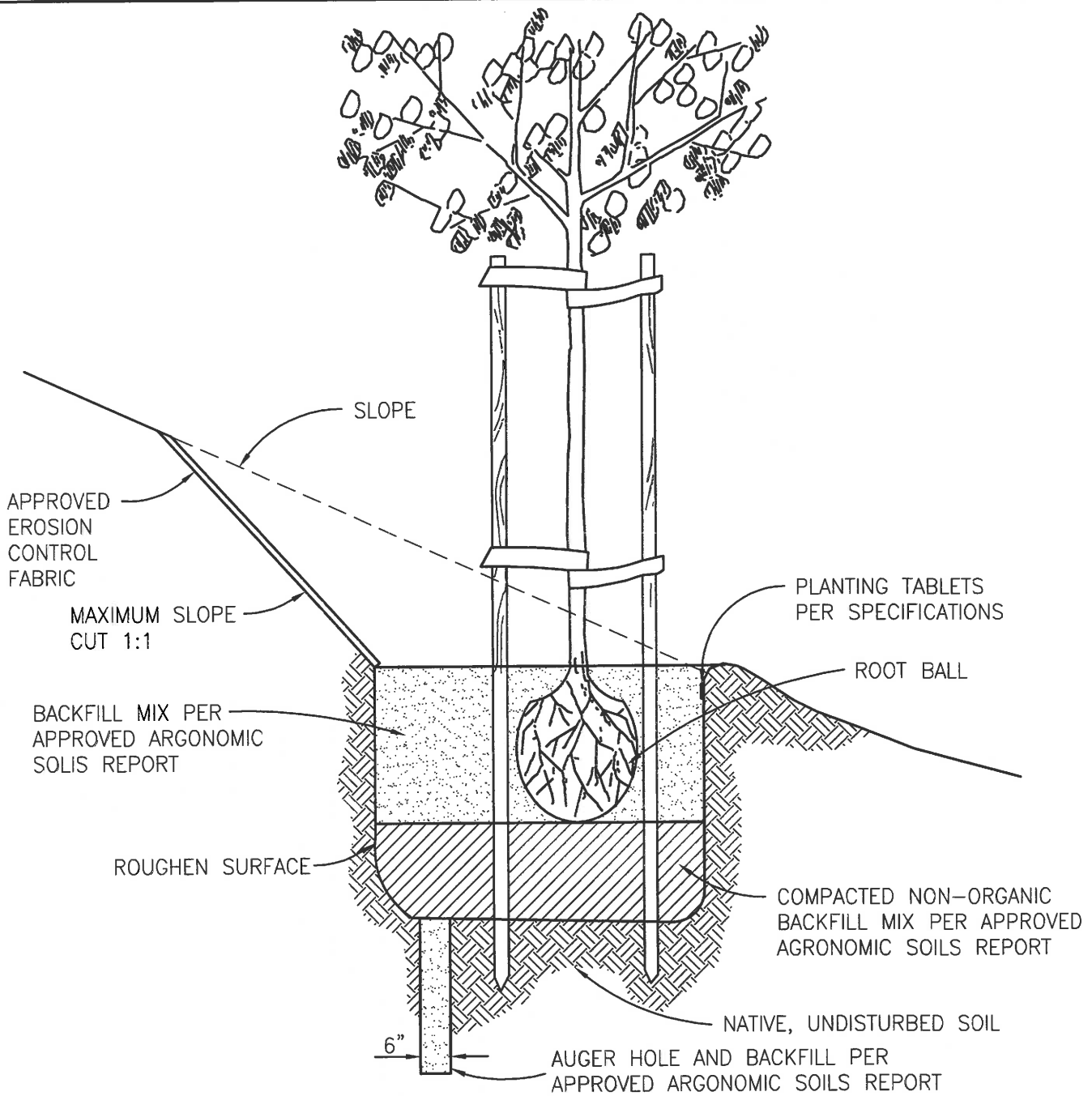
SCALE: NONE	DWG # 8-5
DATE: AUGUST 2015	
DRAWN BY: J. PINKHAM	

LEGEND

- A= TYPE "A" LOOP
- B= TYPE "B" LOOP
- D= TYPE "D" LOOP
- C= COUNTER COUNTER WOUND LOOP
- CC= COUNTER COUNTER WOUND LOOP
- 1-1= LANE #, LOOP #
- COUNT= COUNT LOOP

LOOP DETECTOR ASSIGNMENTS

	(1)	(2)	1	2	3
	THRU	THRU	THRU	THRU	THRU
CALL	111U 315U 5J1U 7J5U	111L 315L 5J1L 7J5L	214U 418U 6J4U 8J8U	214L 418L 6J4L 8J8L	214L 418L 6J4L 8J8L
COUNT	119U* 319L* 5J9U* 7J9L*	213U* 417U* 6J3U* 8J7U*	212U 416U 6J2U 8J6U	212L 416L 6J2L 8J6L	212L 416L 6J2L 8J6L
ADVANCE			213L 417L 6J3L 8J7L		

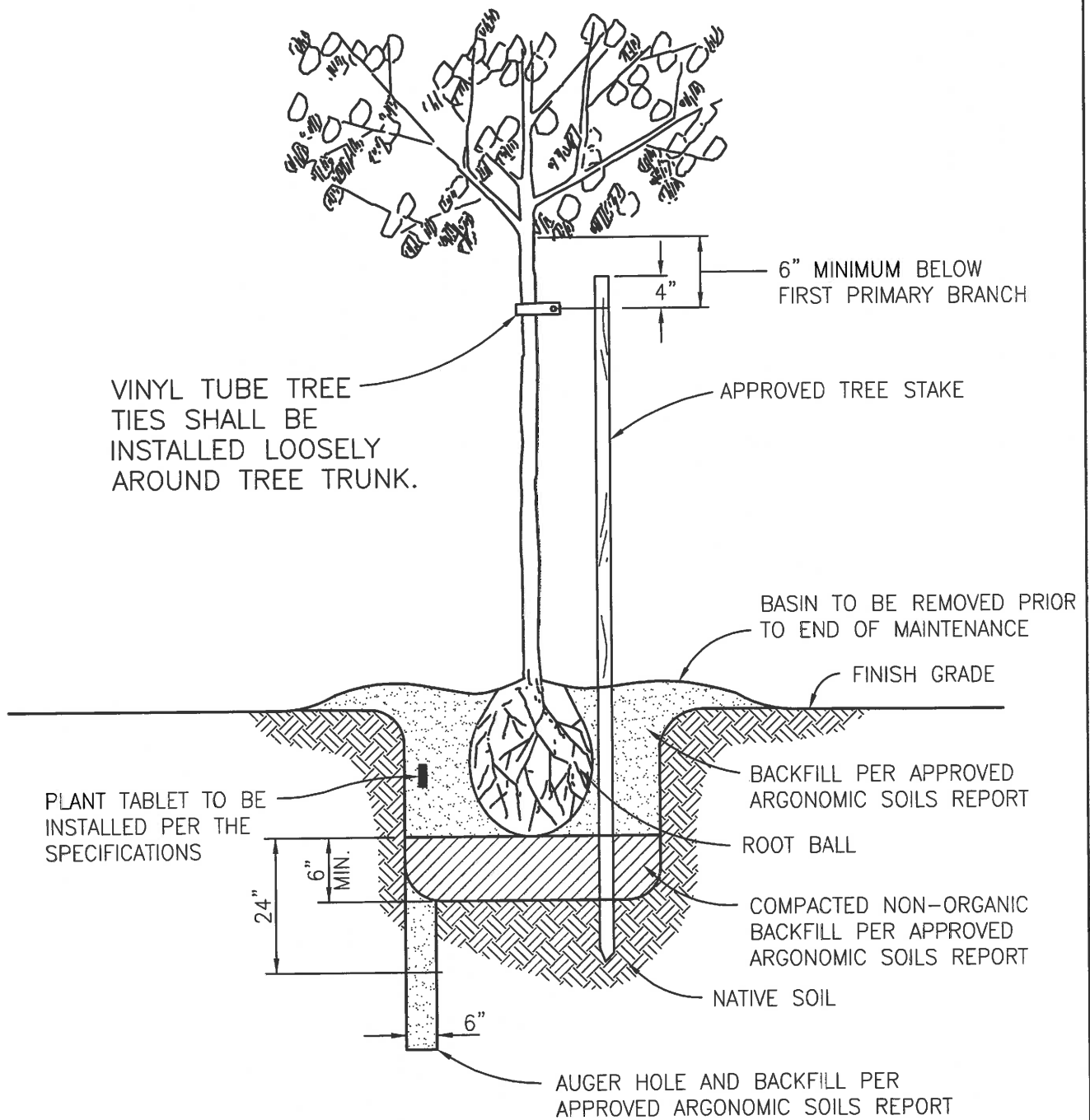


NOTES:

1. BACKFILL MATERIAL SHALL NOT HAVE PARTICLES GREATER THAN 1/2".
2. PLANT PIT TO BE EXCAVATED TO 1-1/2 TIMES THE ORIGINAL CONTAINER DEPTH AND 2 TIMES THE DIAMETER OF ORIGINAL CONTAINER.
3. DOUBLE STAKE ALL TREES 15 GALLON SIZE AND LARGER UNLESS DIRECTED OTHERWISE BY CITY ARBORIST OR ENGINEER.
4. DOUBLE STAKES SHALL USE STEEL TWIST BRACE.
5. TREES SHALL NOT BE PLACED WITHIN 100' OF A STOP SIGN OR TRAFFIC SIGNAL.

16-2
DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
SLOPE PLANTING	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 9-1

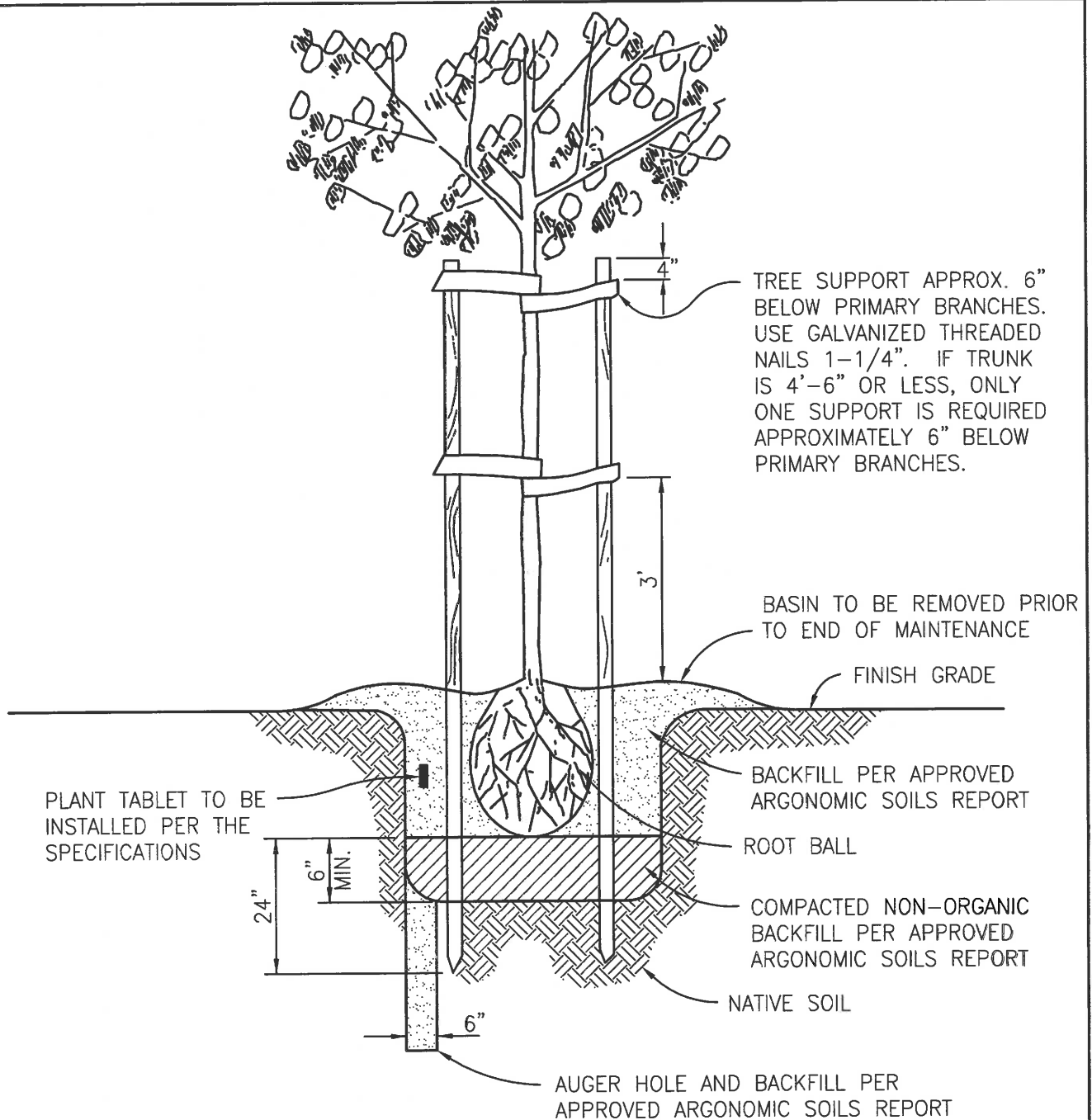


NOTES:

1. BACKFILL MATERIAL SHALL NOT HAVE PARTICLE SIZES GREATER THAN 1/2".
2. PLANT PIT SHALL BE EXCAVATED TO 1-1/2 TIMES THE DEPTH AND 2 TIMES THE DIAMETER OF THE ORIGINAL CONTAINER.
3. SINGLE STAKE ALL TREES SMALLER THAN 15 GALLON SIZE ONLY.

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
TREE PLANTING – SINGLE STAKE	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	9-2
DRAWN BY: J. PINKHAM	

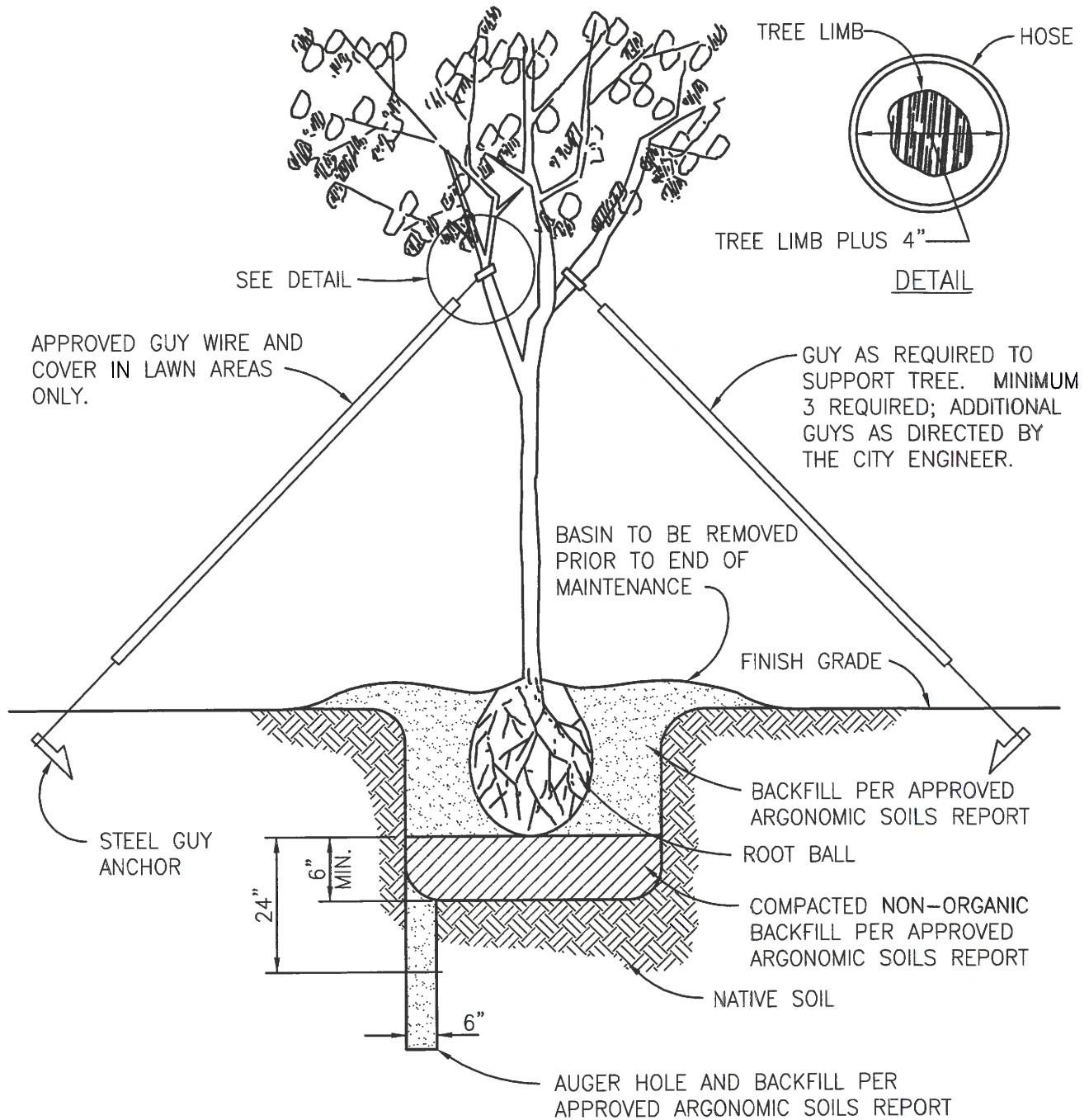


NOTES:

1. BACKFILL MATERIAL SHALL NOT HAVE PARTICLE SIZES GREATER THAN 1/2".
2. PLANT PIT SHALL BE EXCAVATED TO 1-1/2 TIMES THE DEPTH AND 2 TIMES THE DIAMETER OF THE ORIGINAL CONTAINER.
3. DOUBLE STAKE ALL TREES 15 GALLON SIZE AND LARGER UNLESS DIRECTED OTHERWISE BY CITY ARBORIST OR ENGINEER.
4. DOUBLE STAKE SHALL USE STEEL TWIST BRACE.

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
TREE PLANTING - DOUBLE STAKE	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 9-3

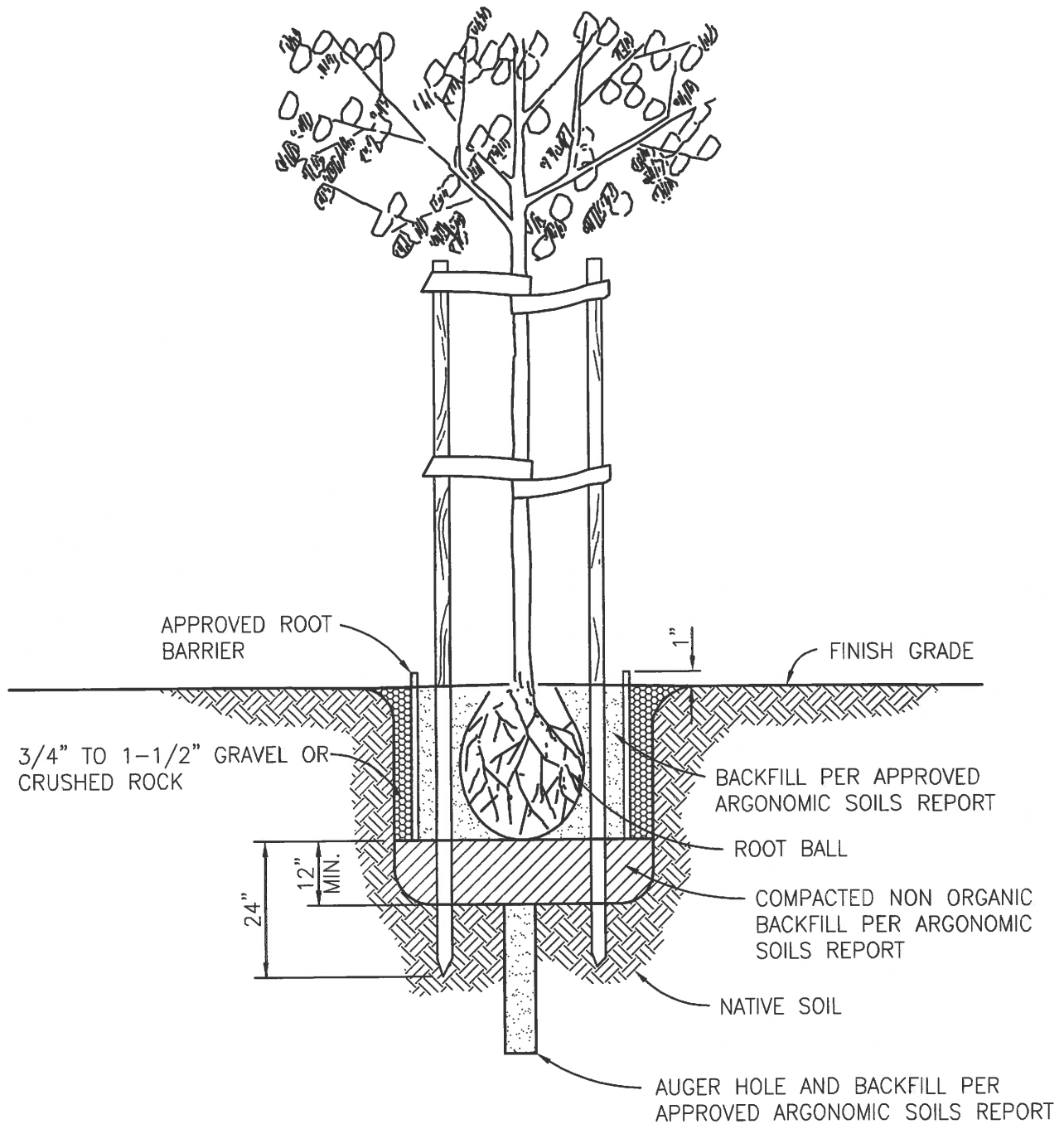


NOTES:

1. GUYING OF TREES MUST RECEIVE PRIOR APPROVAL BY THE CITY ENGINEER.
2. PLANT PIT SHALL BE EXCAVATED TO 1-1/2 TIMES THE DEPTH AND 2 TIMES THE DIAMETER OF THE ORIGINAL CONTAINER.
3. PLANTING TABLETS SHALL BE INSTALLED PER THE SPECIFICATION.

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
TREE GUYING	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 9-4



NOTE:

1) DOUBLE STAKE SHALL USE STEEL TWIST BRACE.

[Signature]

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

**CITY OF ROCKLIN
ENGINEERING DIVISION**

**ROOT
BARRIER PLANTER
BOX**

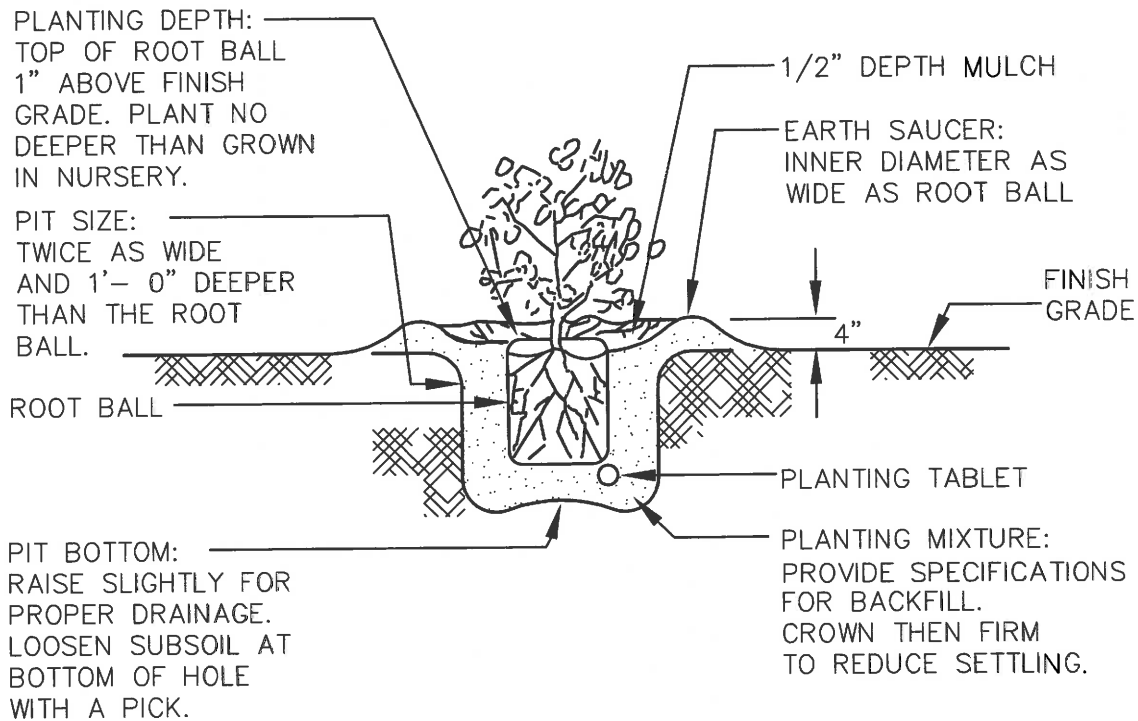
SCALE: NONE

DATE: DECEMBER 2015

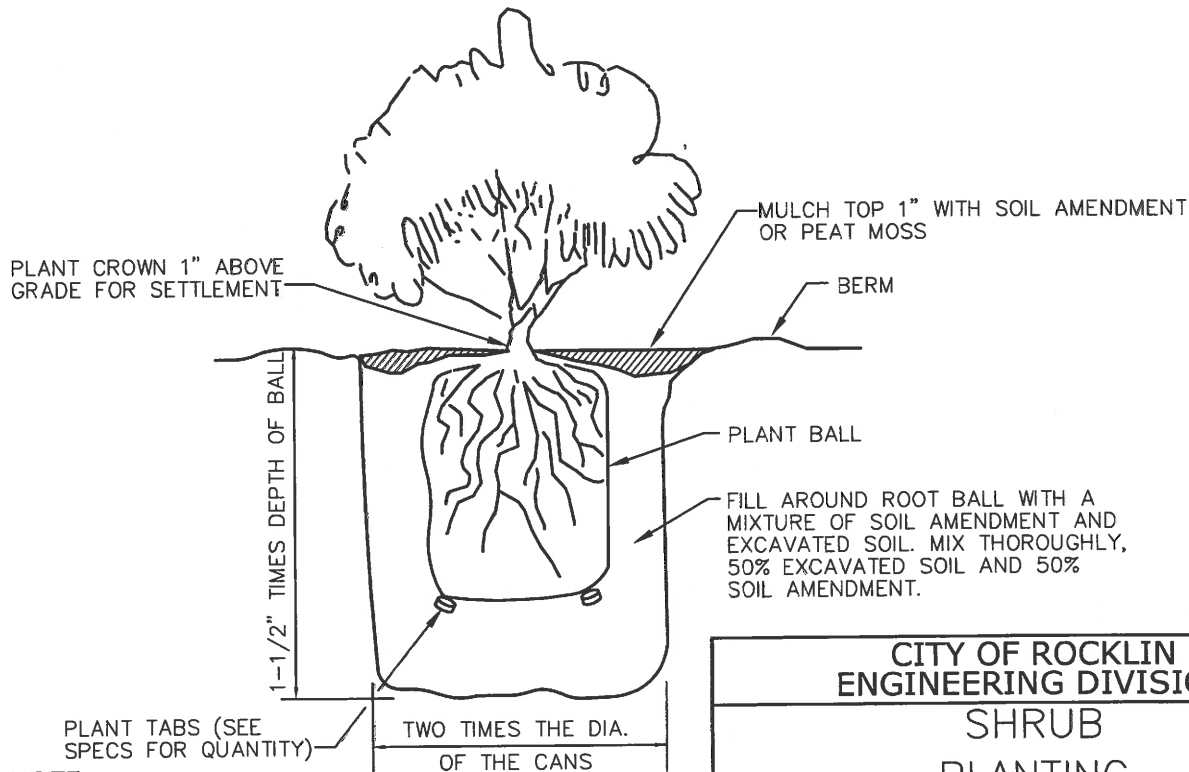
DRAWN BY: J. PINKHAM

DWG #

9-5



- PROVIDE CITY WITH PLANTING MIXTURE SPECIFICATIONS
- PLANTER AREA SHOULD HAVE PRE-EMERGENT HERBICIDE APPLIED BEFORE PLANTING TO PREVENT GERMINATION OF WEED SEEDS.

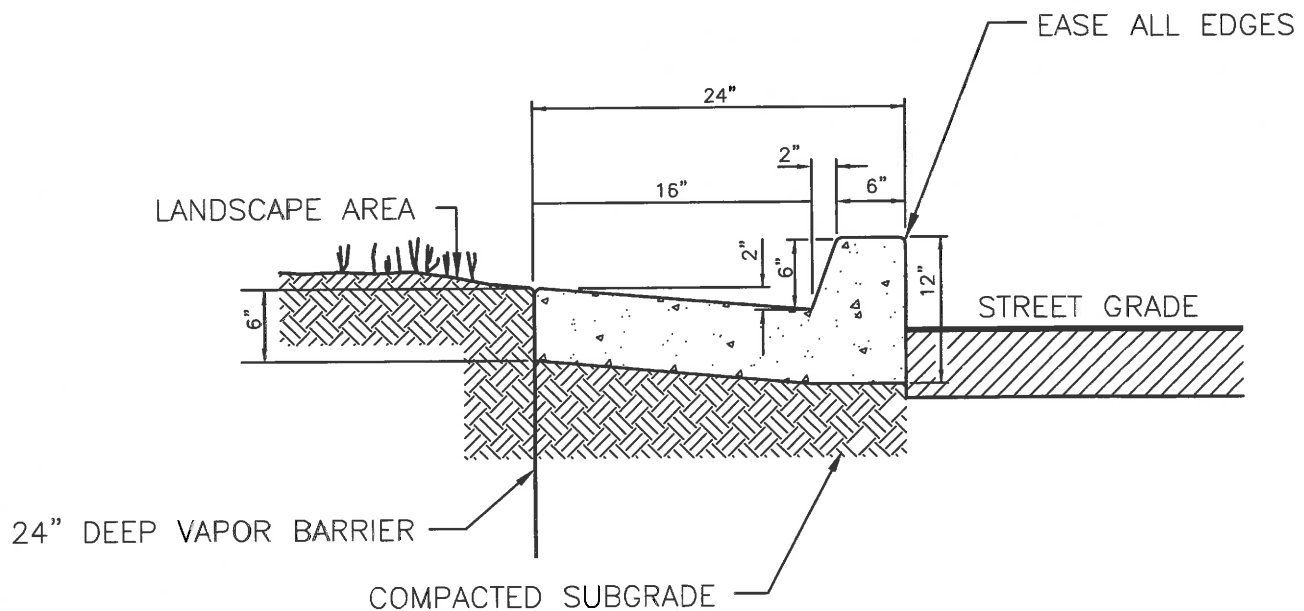


NOTE:
SEE SPECIFICATION FOR SOIL AMENDMENT

[Signature]

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
SHRUB PLANTING DETAIL	
SCALE: NONE	DWG #
DATE: AUGUST 2015	9-6
DRAWN BY: J. PINKHAM	

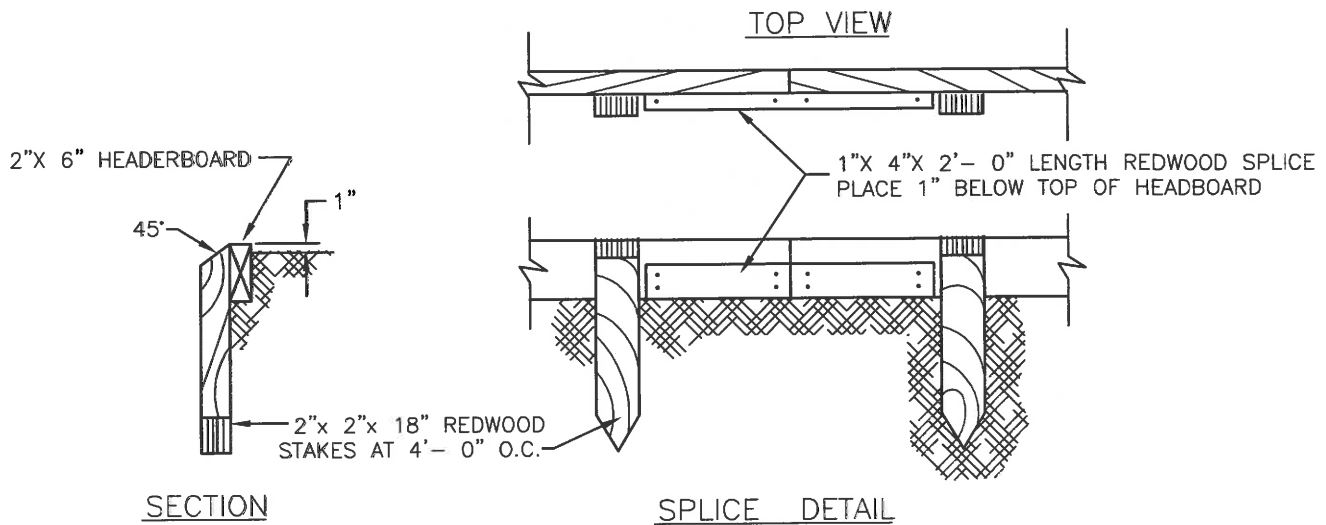


NOTES

1. PROVIDE SCORE JOINTS AT 10'-0" O.C. AND 3/8" BITUMINOUS FELT EXPANSION JOINTS AT 20'-0" O.C. WITH MASTIC SEALANT.
2. APPLY A PRE-EMERGENT HERBICIDE BENEATH GUTTER WITHIN MEDIANS.

[Signature]
DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
CONCRETE LANDSCAPING GUTTER	
SCALE: NONE DATE: AUGUST 2015 DRAWN BY: J. PINKHAM	DWG # 9-7



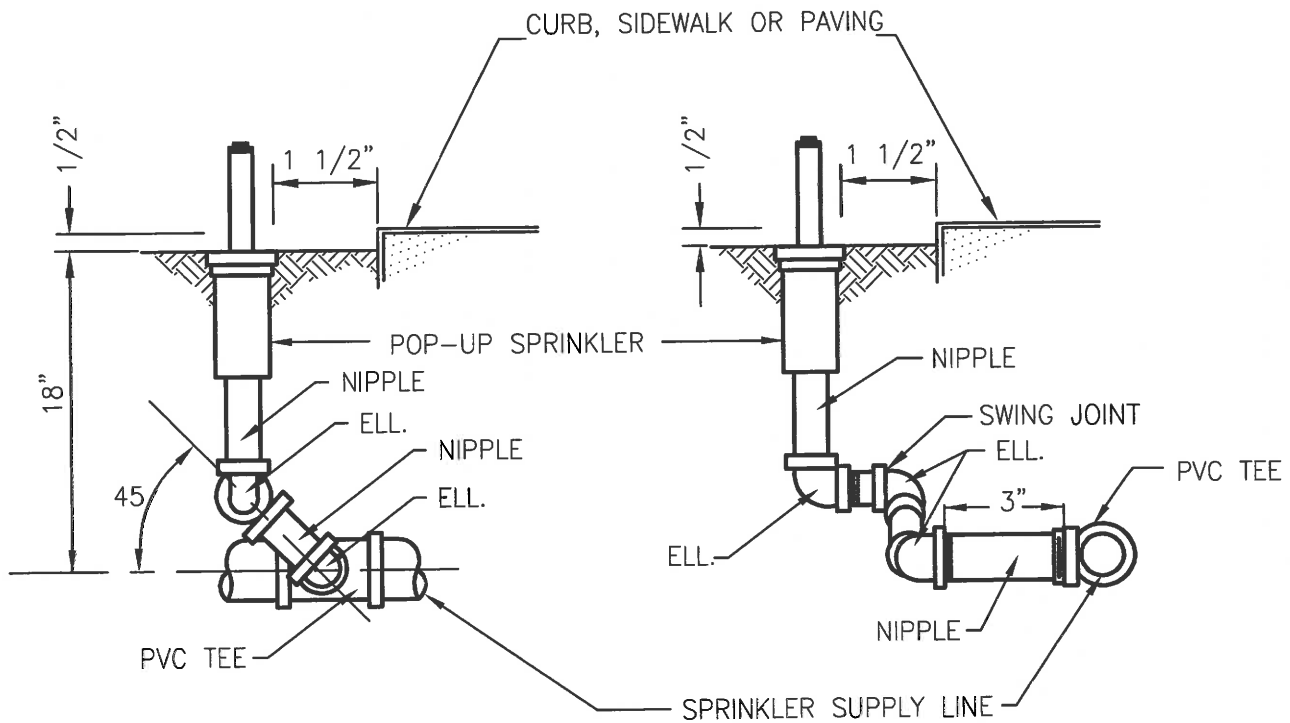
NOTES:

1. USE 2- 1"X 6" REDWOOD ON ALL CURVES (WHERE NECESSARY).
2. INSTALL ALL STAKES AND SPLICES ON PLANTING SIDE OF HEADER BOARD.
3. ALL NAILS SHALL BE GALVANIZED.
4. ALL LUMBER SHALL BE REDWOOD, ROUGH CONSTRUCTION HEART GRADE IN ACCORDANCE TO CALIFORNIA REDWOOD ASSOCIATION GRADING RULES.

[Handwritten signature]

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
REDWOOD HEADERBOARD DETAIL	
SCALE: NONE DATE: AUGUST 2015 DRAWN BY: J. PINKHAM	DWG # 9-8



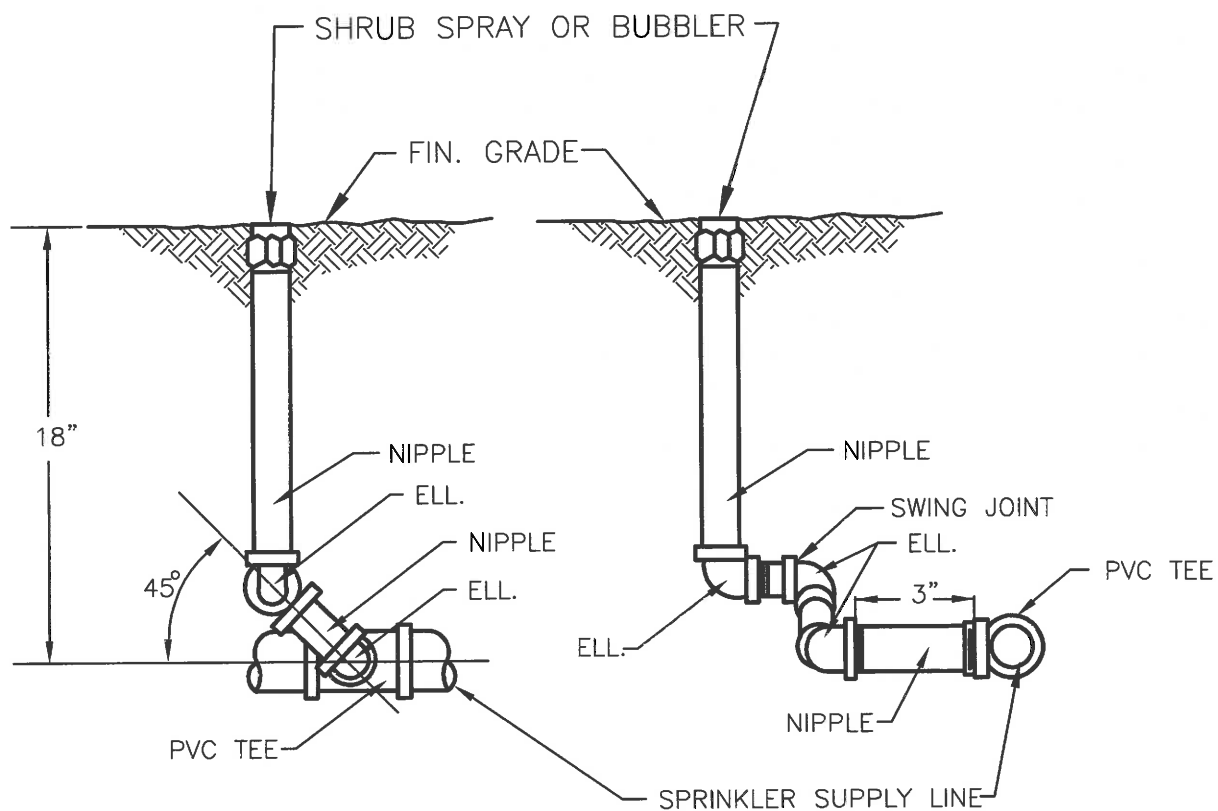
NOTES:

1. HEAD TO BE INITIALLY INSTALLED AT FINISHED GRADE.
2. PIPING & FITTING FROM LATERAL LINE TO SPRINKLER HEAD INLET TO BE SAME SIZE AS THE SPRINKLER INLET OPENING.
3. ALL THREADED FITTINGS SHALL BE INSTALLED USING A NON-HARDENING SEALANT COMPATABLE WITH PVC.
4. SWING JOINT SHALL BE PVC SCHEDULE 80 AND PVC SCHEDULE 40 FITTINGS.

[Signature]

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
POP-UP LAWN SPRINKLER	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 9-9



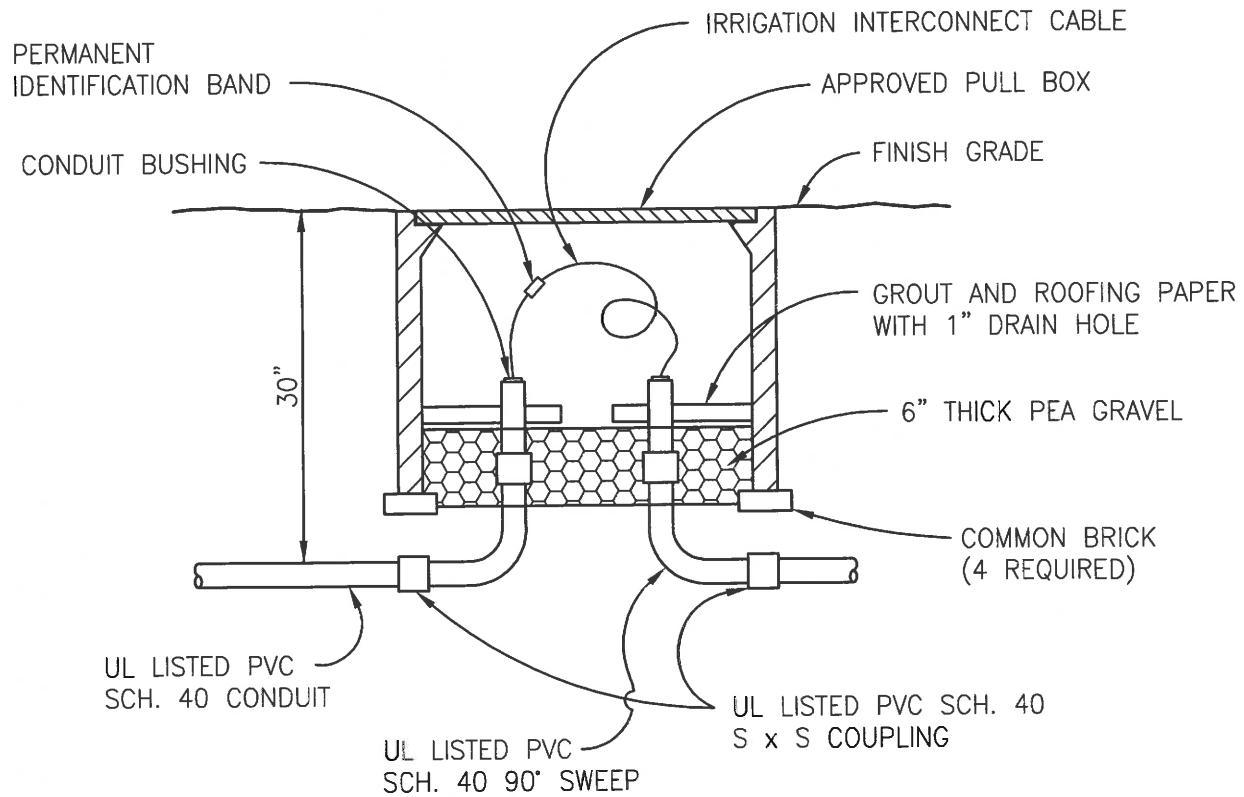
16-2

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

NOTES:

- 1) SWING JOINT SHALL BE PVC SCHEDULE 80 NIPPLES AND PVC SCHEDULE 40 FITTINGS.

CITY OF ROCKLIN ENGINEERING DIVISION	
BUBBLER BELOW GRADE	
SCALE: NONE DATE: AUGUST 2015 DRAWN BY: J. PINKHAM	DWG # 9-10



NOTE:

1. THE ENDS OF THE CONDUIT SHALL BE CAPPED UNTIL PULLING OF CONDUCTORS IS STARTED.

[Signature]

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION

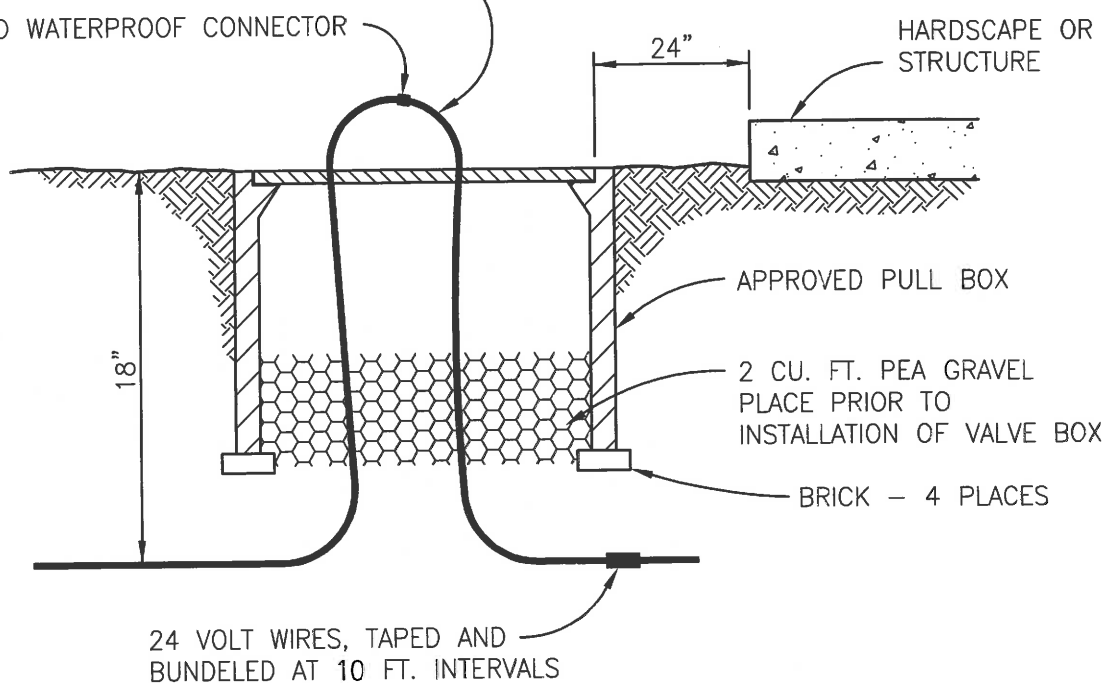
PULL BOX

SCALE: NONE
DATE: MARCH 2006
DRAWN BY: J. PINKHAM

DWG #
9-11

WIRE SERVICE LOOP (LOOP ENOUGH WIRE
TO EXTEND WIRE BUNDLE 6" ABOVE GRADE)

APPROVED WATERPROOF CONNECTOR

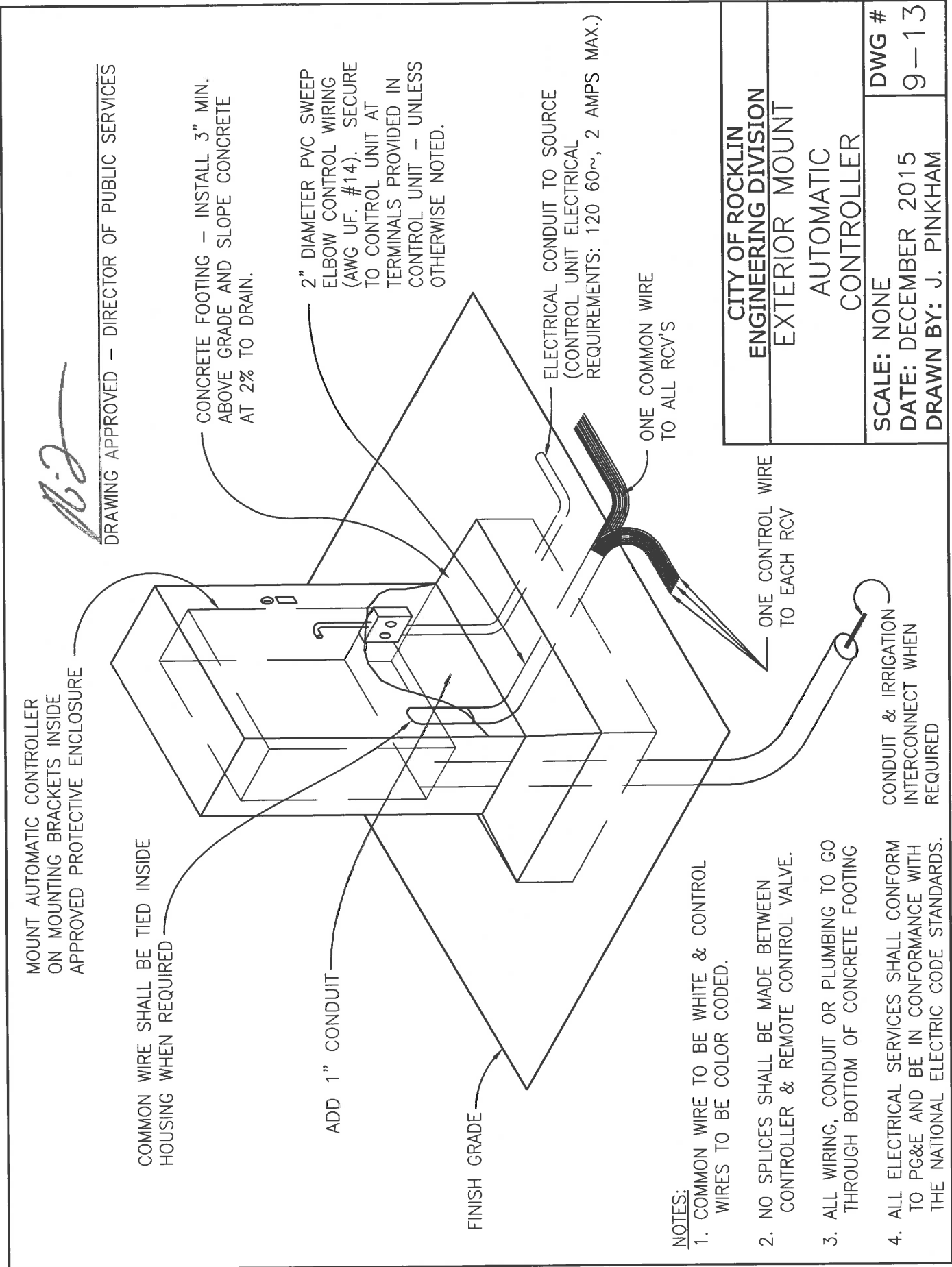


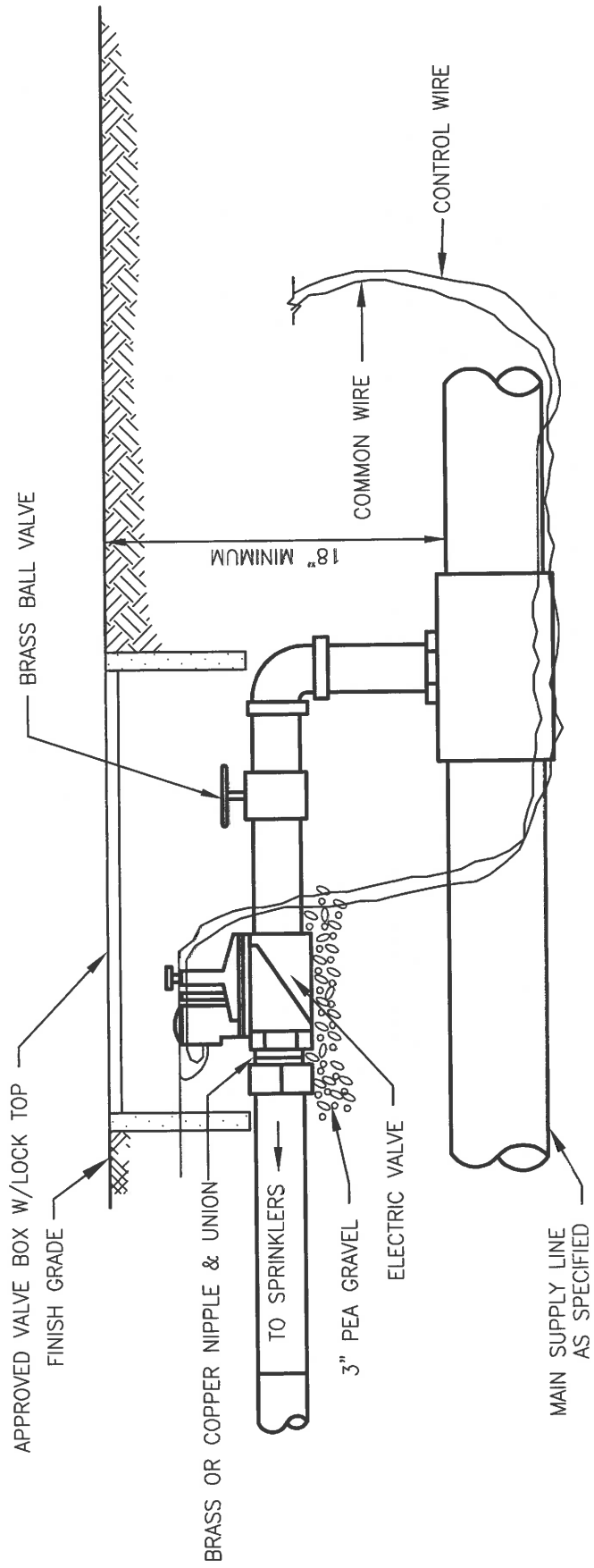
24 VOLT WIRES, TAPED AND
BUNDELED AT 10 FT. INTERVALS

16.2

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
24 VOLT SPLICE BOX	
SCALE: NONE DATE: AUGUST 2015 DRAWN BY: J. PINKHAM	DWG # 9-12



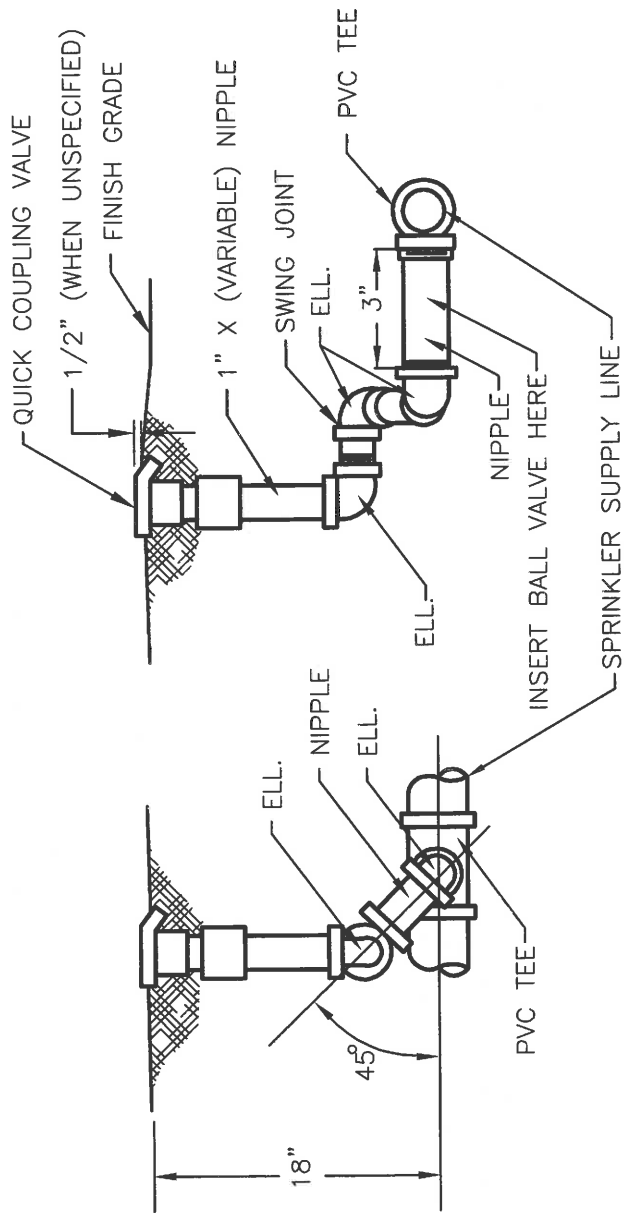


DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
REMOTE MASTER CONTROL VALVE	
SCALE: NONE	DWG #
DATE: AUGUST 2015	9-14
DRAWN BY: J. PINKHAM	

NOTE:

ALL MATERIAL SPECIFICATIONS SUCH AS TYPE OF SPRINKLER EQUIPMENT, PIPE, FITTINGS
CONDUIT, WIRING, VALVE BOXES, RISERS ETC. SHALL BE AS SPECIFIED ON IRRIGATION PLAN.



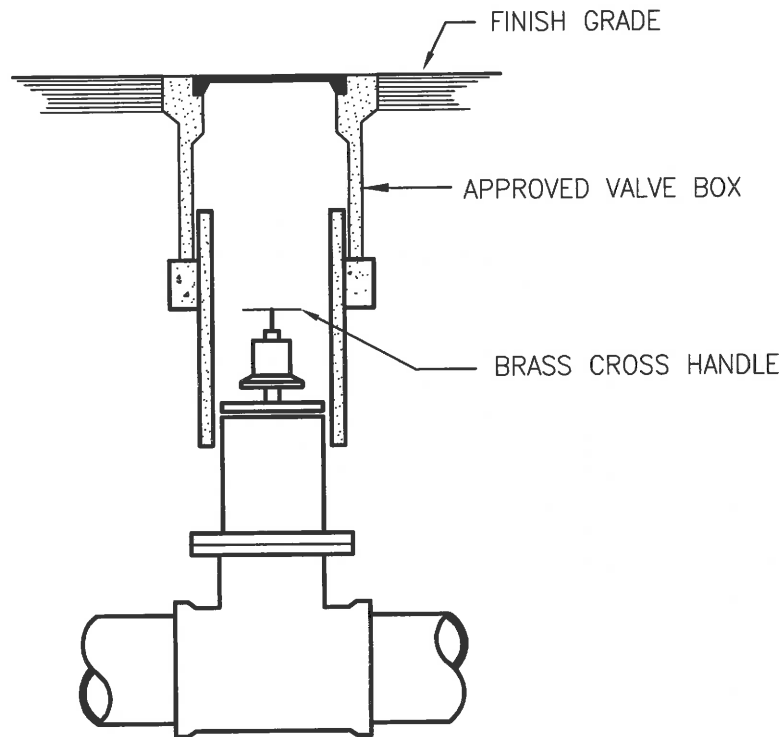
NOTE:
INSTALLATION OF SWING JOINTS SHALL BE ON A 45° ANGLE TO HORIZONTAL.
ALL PIPES AND FITTINGS SHALL BE BRASS OR PVC SCHEDULE 80 EXCEPT
AS SPECIFIED ON THE MAIN SUPPLY LINE.

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN
ENGINEERING DIVISION

QUICK
COUPLER
VALVE

SCALE: NONE	DWG #
DATE: DECEMBER 2015	9-15
DRAWN BY: J. PINKHAM	



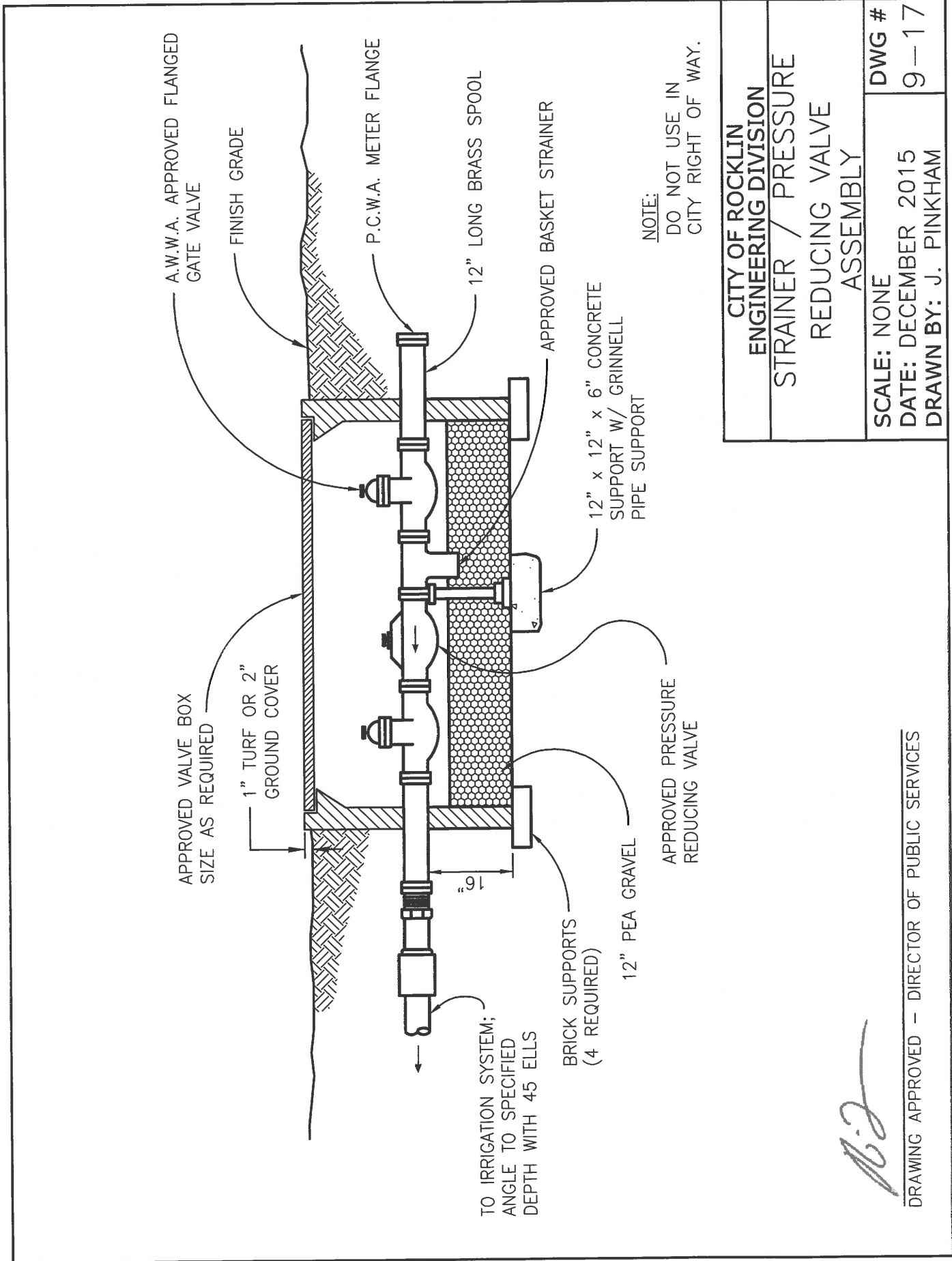
NOTES:

- A. GATE VALVES, 2 INCHES OR SMALLER, SHALL HAVE BRONZE BODIES, RISING STEMS, AND BRASS CROSS HANDLES. GATE VALVES SHALL BE NIBCO CLASS T-113, T-111, THREADED OR APPROVED EQUAL.
- B. GATE VALVES 2-1/4 INCHES AND LARGER SHALL BE AWWA APPROVED AND HAVE FLANGED CONNECTIONS, A 2-INCH SQUARE OPERATING NUT, CAST IRON BODIES, AND HAVE AN ARROW CAST IN METAL INDICATING THE DIRECTION OF WATER FLOW. GATE VALVES SHALL BE NIBCO F-619, SOTCKHAM G-612, KENNEDY 561X, OR APPROVED EQUAL.

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DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

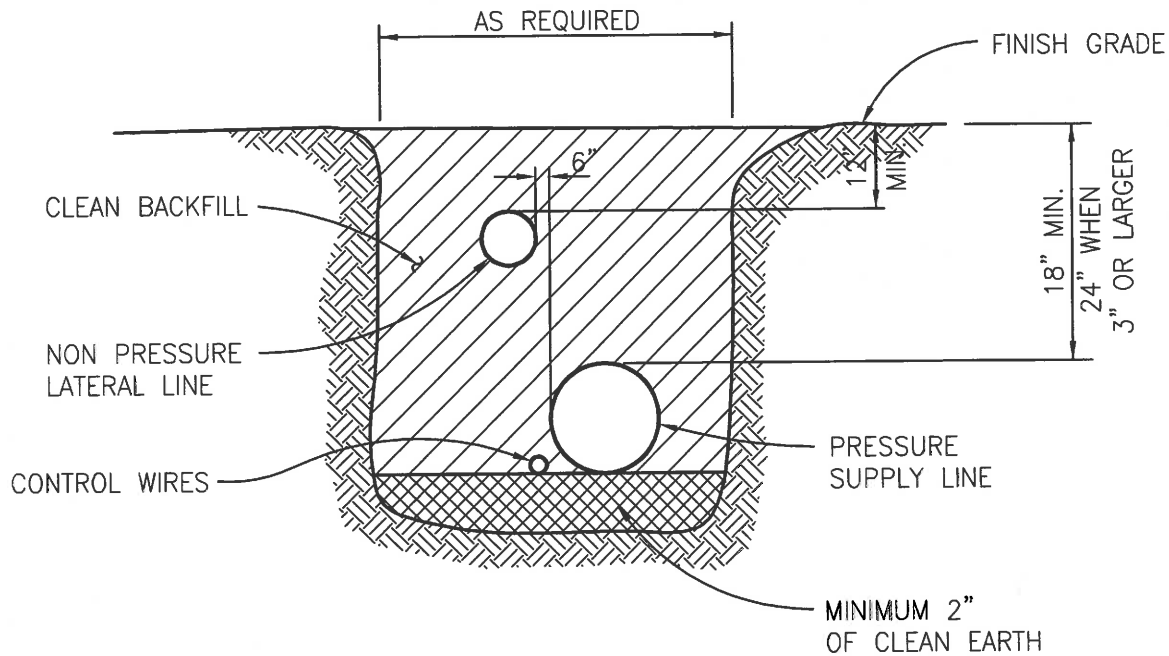
CITY OF ROCKLIN ENGINEERING DIVISION	
GATE VALVE	
SCALE: NONE DATE: DECEMBER 2015 DRAWN BY: J. PINKHAM	DWG # 9-16



Handwritten signature

DRAWING APPROVED - DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
STRAINER / PRESSURE REDUCING VALVE ASSEMBLY	
SCALE: NONE	DWG #
DATE: DECEMBER 2015	9-17
DRAWN BY: J. PINKHAM	



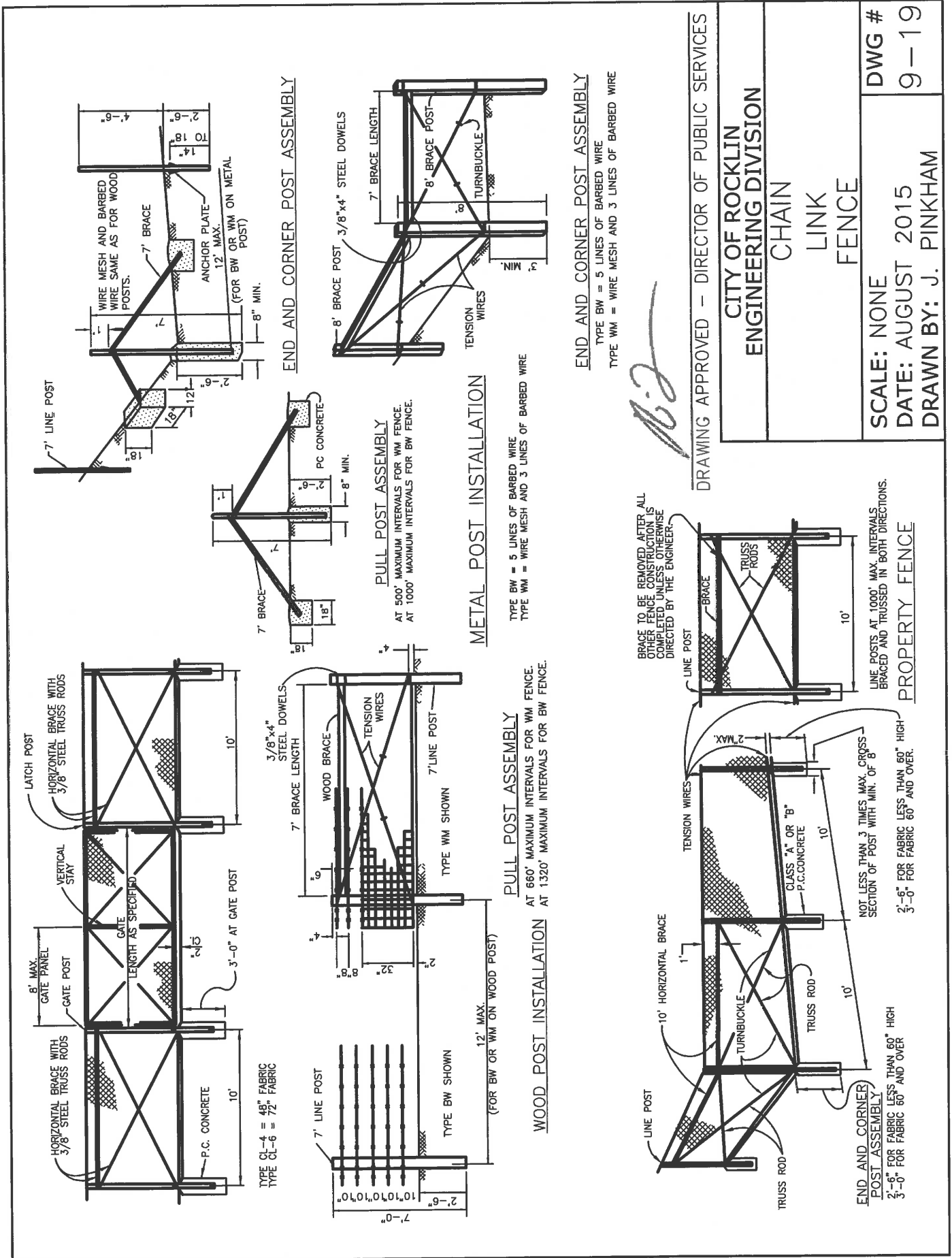
NOTES:

1. BELOW PAVED AREAS, A MINIMUM LAYER OF 6" CLEAN FILL SAND SHALL BE INSTALLED ABOVE AND BELOW PIPING.
2. WHEN USING RECLAIMED WATER, MAINTAIN A MINIMUM 10' HORIZONTAL SEPARATION BETWEEN POTABLE AND RECLAIMED PRESSURE LINES. WHERE LINES CROSS, PROVIDE PVC SLEEVE FOR POTABLE LINE MIN. 5' EACH SIDE OF RECLAIMED LINE.

[Signature]

DRAWING APPROVED – DIRECTOR OF PUBLIC SERVICES

CITY OF ROCKLIN ENGINEERING DIVISION	
PIPE DEPTH IN TRENCHES	
SCALE: NONE	DWG #
DATE: AUGUST 2015	9-18
DRAWN BY: J. PINKHAM	





City Council Report

Subject: Acceptance of Grant Deeds for Public Access and Public Utility Easements- Racetrack Subdivision (SD-2014-0006)

Submitted by: Marc Mondell, Director
Dave Palmer, City Engineer-Presenter

Date: November 8, 2016

Department: Economic & Community Development

- **Staff Recommendation:** It is recommended that the City Council of the City of Rocklin approve a resolution accepting grant deeds for public access and public utility easements for the Racetrack Subdivision.
-

BACKGROUND: The City has accepted the private road known as Racetrack Road into the City street system pursuant to Resolution No. 84-124. The City has maintained Racetrack Road and intends to continue to maintain it as provided in the Resolution. A ten lot subdivision known as Racetrack Subdivision was approved by the City Council on the north end of Racetrack Road on February 9, 2016 by Resolution No. 2016-36. The conditions on the project require widening Racetrack Road and public access and public utility easements over APNs 045-090-014, 045-090-015, 045-090-025 and 045-090-035.

FINDINGS, CONCLUSIONS & RECOMMENDATIONS:

Findings:

- The property owners have agreed to grant to the City the public access and public utility easements necessary for the development of the Racetrack Subdivision

Conclusions:

- Accepting the grant deeds for public access and public utility easements allows the public and utilities access and rights on these properties.

Recommendations:

- Staff recommends approval of the resolution accepting the grant deeds for public access and public utility easements for the Racetrack Subdivision

Fiscal Impact: Racetrack Road is currently maintained by the City, however, the Racetrack subdivision will be required to annex into CFD No. 5 for additional maintenance costs.



Ricky A. Horst, City Manager
Reviewed for Content



DeeAnne Gillick, Interim City Attorney
Reviewed for Legal Sufficiency

RESOLUTION NO.

RESOLUTION OF THE CITY COUNCIL
OF THE CITY OF ROCKLIN
ACCEPTING AND DIRECTING THE RECORDATION OF
PUBLIC ACCESS AND PUBLIC UTILITY EASEMENTS
(Racetrack Subdivision)

The City Council of the City of Rocklin does resolve as follows:

Section 1. The City Council of the City of Rocklin accepts and directs the City Clerk to record the Grant Deeds attached hereto as Exhibit "A" and by this reference incorporated herein.

PASSED AND ADOPTED this 8th day of November, 2016, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

ABSTAIN: Councilmembers:

Gregory A. Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk

RECORDING REQUESTED BY

City of Rocklin

AND WHEN RECORDED MAIL DOCUMENT TO:

No Fee per Gov't Code § 27383

City Clerk
City of Rocklin
3970 Rocklin Road
Rocklin CA 95677

Space Above This Line for Recorder's Use Only

Record Without Fee

Govt. Code. §6103 & §27383

Project Name: Racetrack Road

APN: 045-090-014

Placer County, California

THIS TRANSACTION IS EXEMPT FROM CALIFORNIA DOCUMENTARY TRANSFER TAX PURSUANT TO SECTION 11922 OF THE CALIFORNIA REVENUE AND TAXATION CODE. THIS DOCUMENT IS EXEMPT FROM RECORDING FEES PURSUANT TO SECTIONS 6103 and 27383 OF THE CALIFORNIA GOVERNMENT CODE.

ACCESS AND PUBLIC UTILITY EASEMENT DEED


The City of Rocklin has accepted maintenance of the private road known as Racetrack Road pursuant to Resolution No. 84-124 approved by the City Council on or about September 17, 1984. The City has maintained Racetrack Road and intends to continue to maintain it as provided in the Resolution. A private ten lot subdivision was approved by the City Council at the north end of Racetrack Road on or about February 9, 2016. The conditions of the project require a widening of Racetrack Road over APN's 045-090-025, 045-090-014 and 045-090-015 to permit vehicular and other public access to the approved subdivision. Further, the conditions require a Public Utility Easement in the Racetrack Road right of way.

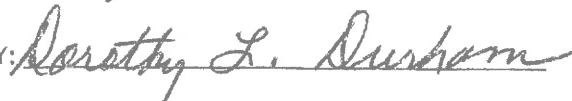
FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **George F. Durham and Dorothy L. Durham, his wife, as joint tenants** hereby GRANTS to the **CITY OF ROCKLIN**, a municipal corporation, the following described easement for public access on Racetrack Road as depicted on the attached exhibit and for water, gas, sewer and drainage pipes, electric, gas, television, telephone, telecommunications services and other future utilities as needed together with any and all appurtenances thereto, and together with the perpetual right of ingress to and egress from said property for the purpose of exercising and performing all of the rights and privileges herein granted, on, over, across and under said property described as follows:

in the City of **Rocklin**, County of **Placer**, State of **California**, more particularly described in Exhibit "A" and depicted in Exhibit "B" attached hereto and made a part thereof.

Dated: October 4, 2016

George F. Durham and Dorothy L. Durham,
his wife, as joint tenants

BY: 

BY: 

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

On October 4, 2016, before me, T Storey, Notary Public, personally appeared George F Durham

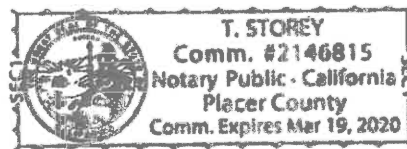
, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

T Storey



This area for official notarial seal

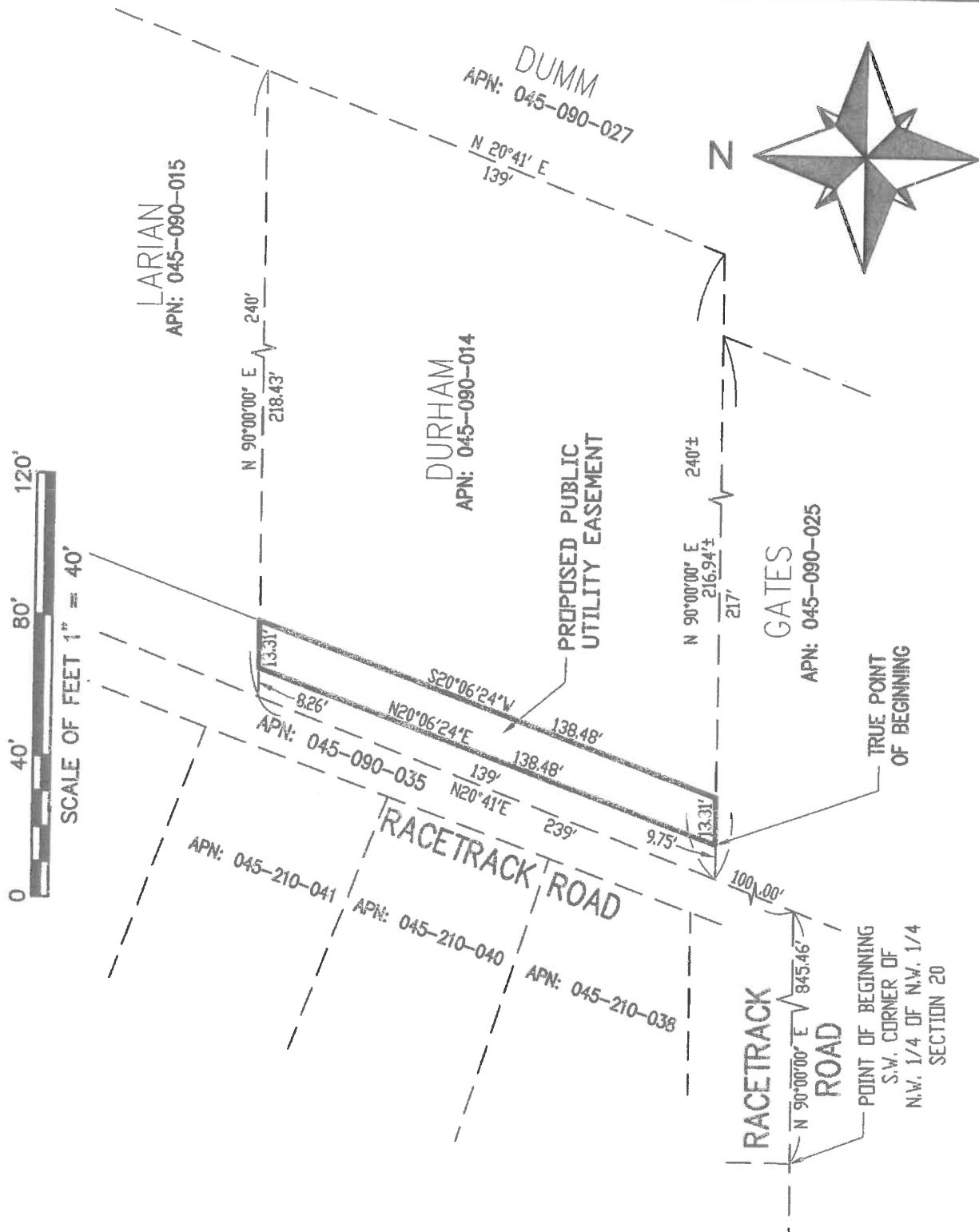
EXHIBIT "A"
4855 RACETRACK ROAD
PUBLIC UTILITY EASEMENT
PAGE 1 OF 1

ALL THAT REAL PROPERTY IN THE CITY OF ROCKLIN, COUNTY OF PLACER, STATE OF CALIFORNIA, DESCRIBED AS:

A PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 11 NORTH, RANGE 7 EAST, M.D.B. & M., PLACER COUNTY, CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, FROM WHICH THE SOUTHWEST CORNER THEREOF BEARS WESTERLY 845.46 FEET; THENCE NORTH 20°41' EAST 100 FEET; THENCE EAST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 9.75 FEET TO THE **TRUE POINT OF BEGINNING**; THENCE NORTH 20°06'24" EAST 138.48 FEET; THENCE EAST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 13.31 FEET; THENCE SOUTH 20°06'24" WEST 138.48 FEET; THENCE WEST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 13.31 FEET TO THE **TRUE POINT OF BEGINNING**.

CONTAINING 0.040 ACRES, MORE OR LESS.



GUIDE ENGINEERING

LAND ENGINEERING AND PLANNING
5930 GRANITE LAKE DR. #150
GRANITE BAY, CA 95746
PHONE: 916-787-0248

EXHIBIT B
PUBLIC
UTILITY EASEMENT
4855 RACETRACK RD.
CITY OF ROCKLIN, CALIFORNIA

SCALE:
1"=40'
DATE:
8-14-2016
SHEET
1 OF 1

RECORDING REQUESTED BY:

And When Recorded Mail This Deed and, Unless Otherwise Shown Below, Mail Tax Statements To:

NAME

STREET ADDRESS

CITY, STATE ZIP

Attn: City Clerk

City of Rocklin

3970 Rocklin Road

Rocklin, CA, 95677

SPACE ABOVE THIS LINE FOR RECORDERS USE

This Order No. _____ Escrow No. _____

DOCUMENTARY TRANSFER TAX \$ is N/A

COMPUTED ON FULL VALUE OF PROPERTY CONVEYED,
OR COMPUTED ON FULL VALUE LESS LIENS AND
ENCUMBRANCES REMAINING AT THE TIME OF SALE.

PUBLIC UTILITY EASEMENT DEED

Record Without Fee

Govt. Code. §6103 & §27383

Project Name: Racetrack Road

APN: 045-090-014

Placer County, California

THIS TRANSACTION IS EXEMPT FROM CALIFORNIA DOCUMENTARY TRANSFER TAX PURSUANT TO SECTION 11922 OF THE CALIFORNIA REVENUE AND TAXATION CODE. THIS DOCUMENT IS EXEMPT FROM RECORDING FEES PURSUANT TO SECTIONS 6103 and 27383 OF THE CALIFORNIA GOVERNMENT CODE.

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **George F. Durham and Dorothy L. Durham, his wife, as joint tenants** hereby **GRANT(S)** to the **CITY OF ROCKLIN**, a municipal corporation, the following described Public Utility Easement for water, gas, sewer and drainage pipes, electric, gas, television, telephone, telecommunications services and other public utilities together with any and all appurtenances thereto, and together with the perpetual right of ingress to and egress from said property for the purpose of exercising and performing all of the rights and privileges herein granted, on, over, across and under said property described as follows: In the City of **Rocklin**, County of **Placer**, State of **California**, more particularly described in Exhibit "A" and depicted in Exhibit "B" attached hereto and made part thereof.

Dated: October 4, 2016

George F. Durham and Dorothy L. Durham,
his wife, as joint tenants

BY: 

BY: 

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

On October 4, 2016, before me, T. Storey, Notary Public, personally appeared George F. Durham

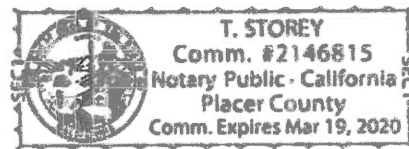
, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

[Signature]



This area for official notarial seal

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

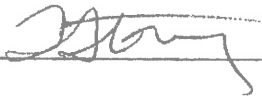
STATE OF California) SS
COUNTY OF Placer)

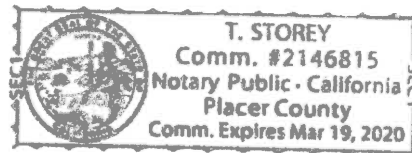
On October 4, 2016, before me, T. Storey, Notary Public, personally appeared Dorothy L. Durham, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature





This area for official notarial seal

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STATE OF California) SS
COUNTY OF Placer)

On October 4, 2016, before me, T. Storey, Notary Public, personally appeared Dorothy L. Durham)

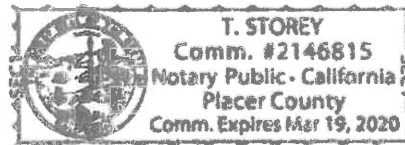
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

T. Storey



This area for official notarial seal

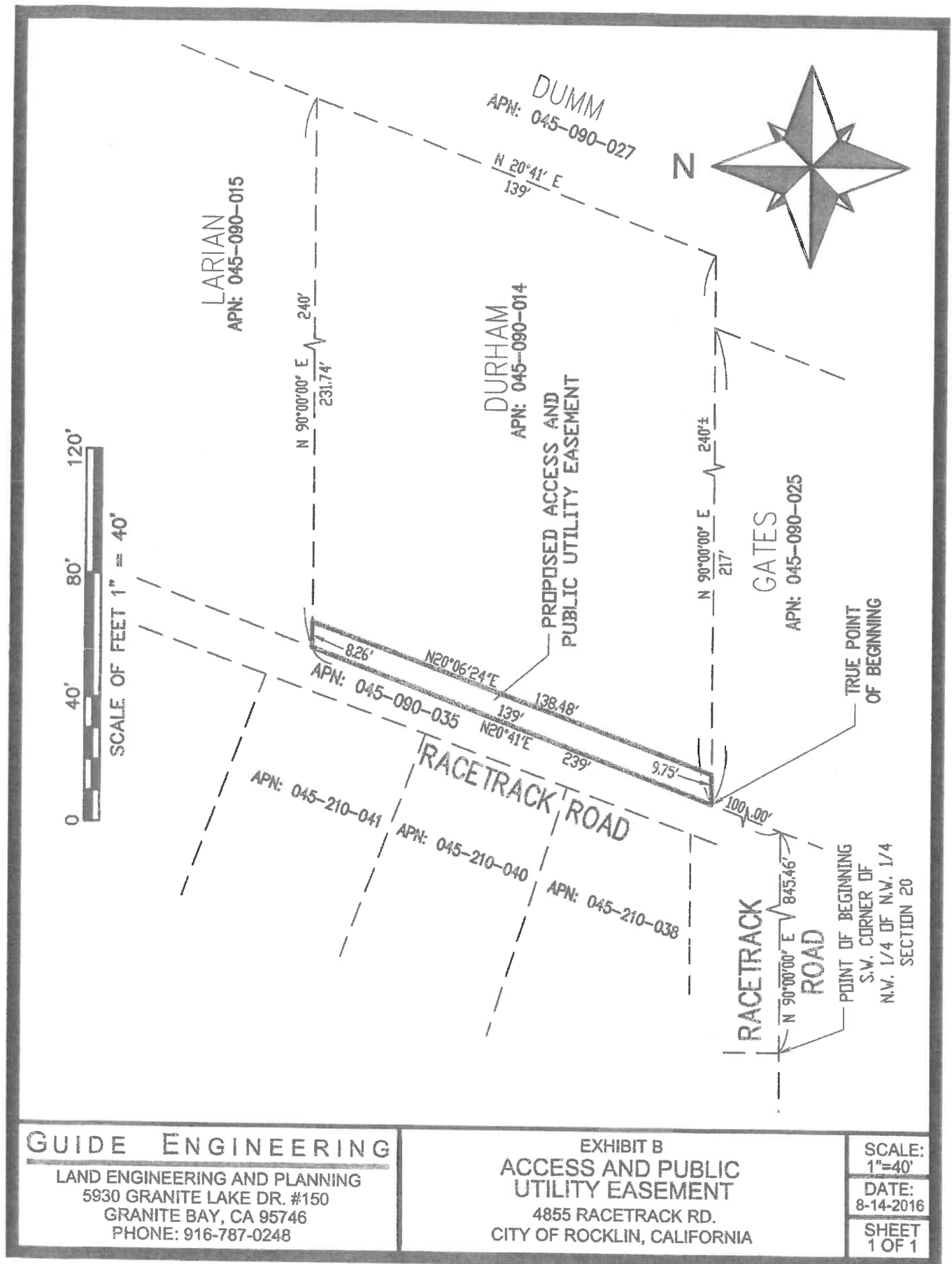
EXHIBIT "A"
4855 RACETRACK ROAD
ACCESS & PUBLIC UTILITY EASEMENT
PAGE 1 OF 1

ALL THAT REAL PROPERTY IN THE CITY OF ROCKLIN, COUNTY OF PLACER, STATE OF CALIFORNIA, DESCRIBED AS:

A PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 11 NORTH, RANGE 7 EAST, M.D.B. & M., PLACER COUNTY, CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, FROM WHICH THE SOUTHWEST CORNER THEREOF BEARS WESTERLY 845.46 FEET; THENCE NORTH 20°41' EAST 100 FEET TO THE **TRUE POINT OF BEGINNING**; THENCE CONTINUING NORTH 20°41' EAST 139 FEET; THENCE EAST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 8.26 FEET; THENCE SOUTH 20°06'24" WEST 138.48 FEET; THENCE WEST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 9.75 FEET TO THE **TRUE POINT OF BEGINNING**.

CONTAINING 0.027 ACRES, MORE OR LESS.



RECORDING REQUESTED BY
City of Rocklin

AND WHEN RECORDED MAIL DOCUMENT TO:

No Fee per Gov't Code § 27383

City Clerk
City of Rocklin
3970 Rocklin Road
Rocklin CA 95677

Space Above This Line for Recorder's Use Only

Record Without Fee

Govt. Code. §6103 & §27383

Project Name: Racetrack Road

APN: 045-090-015

Placer County, California

THIS TRANSACTION IS EXEMPT FROM CALIFORNIA DOCUMENTARY TRANSFER TAX PURSUANT TO SECTION 11922 OF THE CALIFORNIA REVENUE AND TAXATION CODE. THIS DOCUMENT IS EXEMPT FROM RECORDING FEES PURSUANT TO SECTIONS 6103 and 27383 OF THE CALIFORNIA GOVERNMENT CODE.

ACCESS AND PUBLIC UTILITY EASEMENT DEED

The City of Rocklin has accepted maintenance of the private road known as Racetrack Road pursuant to Resolution No. 84-124 approved by the City Council on or about September 17, 1984. The City has maintained Racetrack Road and intends to continue to maintain it as provided in the Resolution. A private ten lot subdivision was approved by the City Council at the north end of Racetrack Road on or about February 9, 2016. The conditions of the project require a widening of Racetrack Road over APN's 045-090-025, 045-090-014 and 045-090-015 to permit vehicular and other public access to the approved subdivision. Further, the conditions require a Public Utility Easement in the Racetrack Road right of way.

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **Joseph A. Larian and Sara M. Larian, husband and wife as joint tenants** hereby GRANTS to the **CITY OF ROCKLIN**, a municipal corporation, the following described easement for public access on Racetrack Road as depicted on the attached exhibit and for water, gas, sewer and drainage pipes, electric, gas, television, telephone, telecommunications services and other future utilities as needed together with any and all appurtenances thereto, and together with the perpetual right of ingress to and egress from said property for the purpose of exercising and performing all of the rights and privileges herein granted, on, over, across and under said property described as follows:

in the City of **Rocklin**, County of **Placer**, State of **California**, more particularly described in Exhibit "A" and depicted in Exhibit "B" attached hereto and made a part thereof.

Dated: 10/2/16

Joseph A. Larian and Sara M. Larian,
husband and wife as joint tenants

BY: Joseph A. Larian 10/2/16

BY: Sara M. Larian 10/2/16

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

On Sun. October 2, 2016 before me, T. Storey, Notary Public, personally appeared Joseph Larian

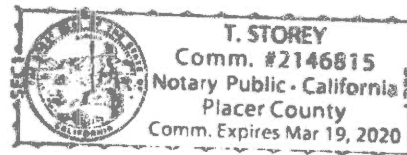
, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

T. Storey



This area for official notarial seal

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

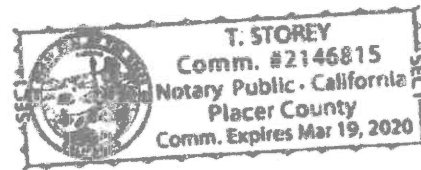
On October 4, 2016, before me, T. Storey, Notary Public, personally appeared Sara Larian, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

[Signature]



This area for official notarial seal

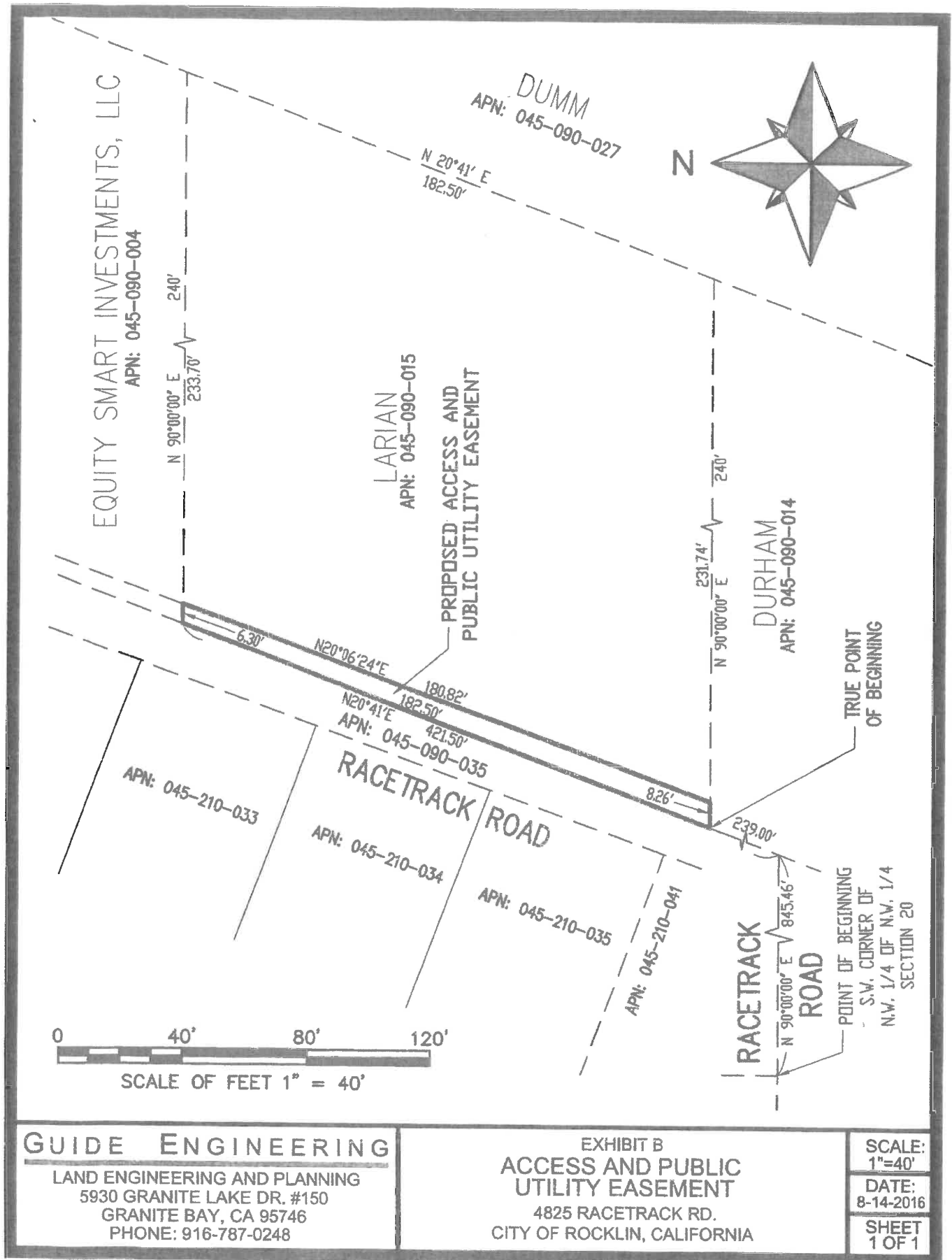
EXHIBIT "A"
4825 RACETRACK ROAD
ACCESS & PUBLIC UTILITY EASEMENT
PAGE 1 OF 1

ALL THAT REAL PROPERTY IN THE CITY OF ROCKLIN, COUNTY OF PLACER, STATE OF CALIFORNIA, DESCRIBED AS:

A PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 11 NORTH, RANGE 7 EAST, M.D.B. & M., PLACER COUNTY, CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, FROM WHICH THE SOUTHWEST CORNER THEREOF BEARS WESTERLY 845.46 FEET; THENCE NORTH 20°41' EAST 239 FEET TO THE **TRUE POINT OF BEGINNING**; THENCE CONTINUING NORTH 20°41' EAST 182.50 FEET; THENCE EAST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 6.30 FEET; THENCE SOUTH 20°06'24" WEST 181.82 FEET; THENCE WEST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 8.26 FEET TO THE **TRUE POINT OF BEGINNING**.

CONTAINING 0.029 ACRES, MORE OR LESS.



RECORDING REQUESTED BY:

And When Recorded Mail This Deed and, Unless Otherwise Shown Below, Mail Tax Statements To:

NAME
STREET
ADDRESS
CITY,
STATE
ZIP

Attn: City Clerk
City of Rocklin
3970 Rocklin Road
Rocklin, CA, 95677

SPACE ABOVE THIS LINE FOR RECORDERS USE

This Order No. _____ Escrow No. _____

DOCUMENTARY TRANSFER TAX \$ is N/A

COMPUTED ON FULL VALUE OF PROPERTY CONVEYED,
OR COMPUTED ON FULL VALUE LESS LIENS AND
ENCUMBRANCES REMAINING AT THE TIME OF SALE.

PUBLIC UTILITY EASEMENT DEED

Record Without Fee

Govt. Code. §6103 & §27383

Project Name: Racetrack Road

APN: 045-090-015

Placer County, California

THIS TRANSACTION IS EXEMPT FROM CALIFORNIA DOCUMENTARY TRANSFER TAX PURSUANT TO SECTION 11922 OF THE CALIFORNIA REVENUE AND TAXATION CODE. THIS DOCUMENT IS EXEMPT FROM RECORDING FEES PURSUANT TO SECTIONS 6103 and 27383 OF THE CALIFORNIA GOVERNMENT CODE.

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **Joseph A. Larian and Sara M. Larian, husband and wife as joint tenants** hereby **GRANT(S)** to the **CITY OF ROCKLIN**, a municipal corporation, the following described Public Utility Easement for water, gas, sewer and drainage pipes, electric, gas, television, telephone, telecommunications services and other public utilities together with any and all appurtenances thereto, and together with the perpetual right of ingress to and egress from said property for the purpose of exercising and performing all of the rights and privileges herein granted, on, over, across and under said property described as follows: In the City of **Rocklin**, County of **Placer**, State of **California**, more particularly described in Exhibit "A" and depicted in Exhibit "B" attached hereto and made part thereof.

Dated: 10/4/16

Joseph A. Larian and Sara M. Larian,
husband and wife as joint tenants

BY: Joseph Larian 10/10/16
BY: Sara Larian 10/4/16

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

On October 16, 2016, before me, T. Storey, Notary Public, personally appeared Joseph Larian

, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature



This area for official notarial seal

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

On October 4, 2016, before me, T. Storey, Notary Public, personally appeared Sara Larian

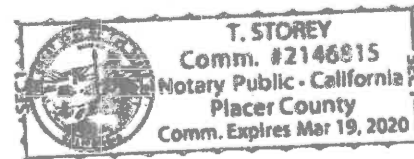
, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

T. Storey



This area for official notarial seal

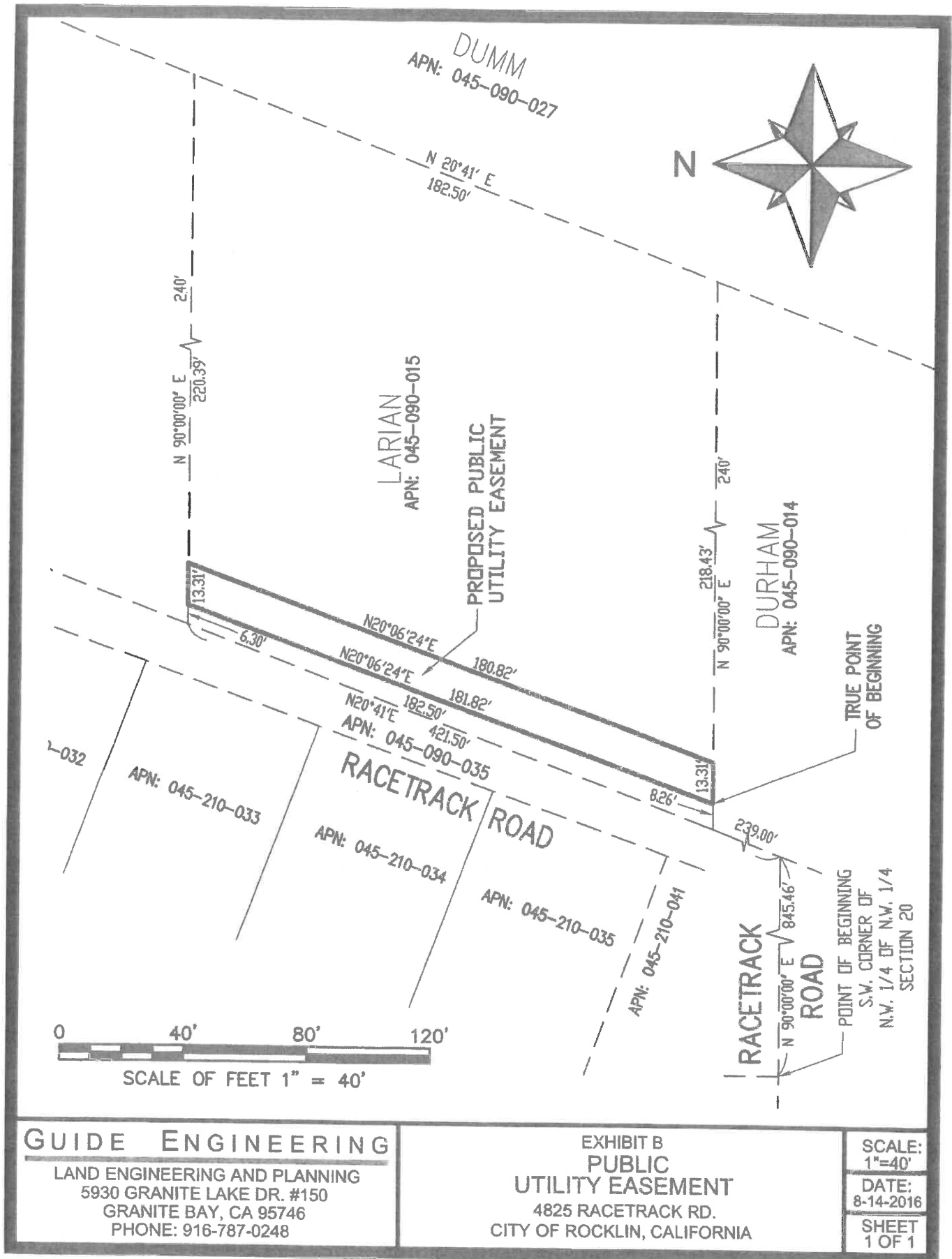
EXHIBIT "A"
4825 RACETRACK ROAD
PUBLIC UTILITY EASEMENT
PAGE 1 OF 1

ALL THAT REAL PROPERTY IN THE CITY OF ROCKLIN, COUNTY OF PLACER, STATE OF CALIFORNIA, DESCRIBED AS:

A PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 11 NORTH, RANGE 7 EAST, M.D.B. & M., PLACER COUNTY, CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, FROM WHICH THE SOUTHWEST CORNER THEREOF BEARS WESTERLY 845.46 FEET; THENCE NORTH 20°41' EAST 239 FEET; THENCE EAST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 8.26 FEET TO THE **TRUE POINT OF BEGINNING**; THENCE NORTH 20°06'24" EAST 180.82 FEET; THENCE EAST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 13.31 FEET; THENCE SOUTH 20°06'24" WEST 181.82 FEET; THENCE WEST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 13.31 FEET TO THE **TRUE POINT OF BEGINNING**.

CONTAINING 0.052 ACRES, MORE OR LESS.



RECORDING REQUESTED BY
City of Rocklin

AND WHEN RECORDED MAIL DOCUMENT TO:

No Fee per Gov't Code § 27383

City Clerk
City of Rocklin
3970 Rocklin Road
Rocklin CA 95677

Space Above This Line for Recorder's Use Only

Record Without Fee

Govt. Code. §6103 & §27383

Project Name: Racetrack Road

APN: 045-090-025

Placer County, California

THIS TRANSACTION IS EXEMPT FROM CALIFORNIA DOCUMENTARY TRANSFER TAX PURSUANT TO SECTION 11922 OF THE CALIFORNIA REVENUE AND TAXATION CODE. THIS DOCUMENT IS EXEMPT FROM RECORDING FEES PURSUANT TO SECTIONS 6103 and 27383 OF THE CALIFORNIA GOVERNMENT CODE.

ACCESS AND PUBLIC UTILITY EASEMENT DEED

The City of Rocklin has accepted maintenance of the private road known as Racetrack Road pursuant to Resolution No. 84-124 approved by the City Council on or about September 17, 1984. The City has maintained Racetrack Road and intends to continue to maintain it as provided in the Resolution. A private ten lot subdivision was approved by the City Council at the north end of Racetrack Road on or about February 9, 2016. The conditions of the project require a widening of Racetrack Road over APN's 045-090-025, 045-090-014 and 045-090-015 to permit vehicular and other public access to the approved subdivision. Further, the conditions require a Public Utility Easement in the Racetrack Road right of way.

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, **Gary L. Gates and James Helms, as joint tenants** hereby GRANTS to the **CITY OF ROCKLIN**, a municipal corporation, the following described easement for public access on Racetrack Road as depicted on the attached exhibit and for water, gas, sewer and drainage pipes, electric, gas, television, telephone, telecommunications services and other future utilities as needed together with any and all appurtenances thereto, and together with the perpetual right of ingress to and egress from said property for the purpose of exercising and performing all of the rights and privileges herein granted, on, over, across and under said property described as follows:

in the City of **Rocklin**, County of **Placer**, State of **California**, more particularly described in Exhibit "A" and depicted in Exhibit "B" attached hereto and made a part thereof.

Dated: 10-22-16

Gary L. Gates and James Helms
as joint tenants

By: 

By: 

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

On Oct. 22, 2016, before me, Benjamin H. Eagleton, Notary Public, personally appeared James Helms

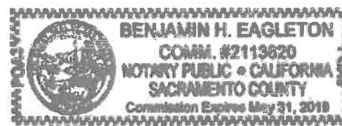
, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

[Signature]



This area for official notarial seal

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

On Oct. 22, 2016, before me, Benjamin H. Eagleton, Notary Public, personally appeared Gary L. Satala

, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

B H Eagleton



This area for official notarial seal

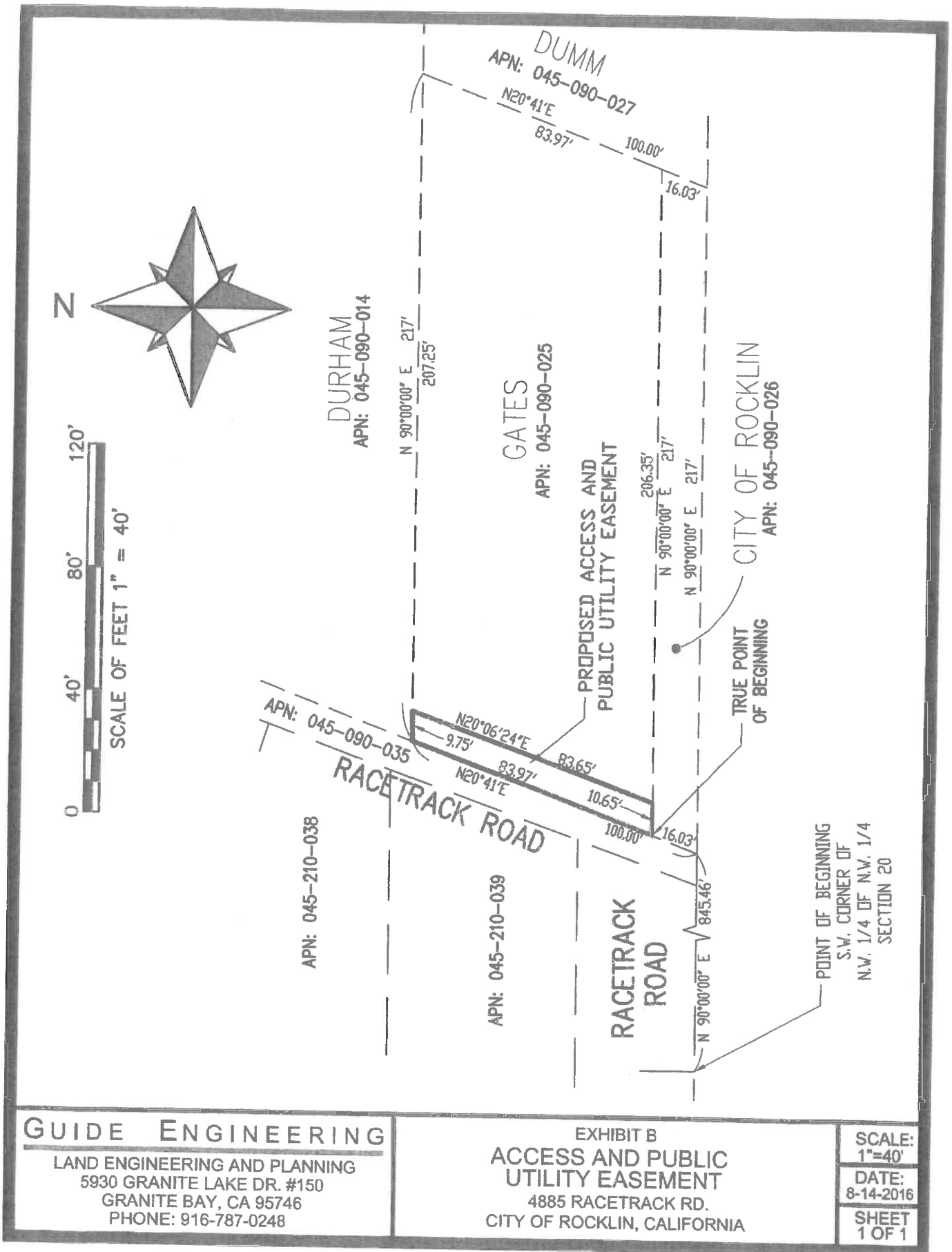
EXHIBIT "A"
(4885 RACETRACK ROAD)
ACCESS & PUBLIC UTILITY EASEMENT
PAGE 1 OF 1

ALL THAT REAL PROPERTY IN THE CITY OF ROCKLIN, COUNTY OF PLACER, STATE OF CALIFORNIA, DESCRIBED AS:

A PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 11 NORTH, RANGE 7 EAST, M.D.B. & M., PLACER COUNTY, CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, FROM WHICH THE SOUTHWEST CORNER THEREOF BEARS WESTERLY 845.46 FEET; THENCE NORTH 20°41' EAST 16.03 FEET TO THE **TRUE POINT OF BEGINNING**; THENCE CONTINUING NORTH 20°41' EAST 83.97 FEET; THENCE EAST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 9.75 FEET; THENCE SOUTH 20°06'24" WEST 83.65 FEET; THENCE WEST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 10.65 FEET TO THE **TRUE POINT OF BEGINNING**.

CONTAINING 0.018 ACRES, MORE OR LESS.



RECORDING REQUESTED BY:

And When Recorded Mail This Deed and, Unless Otherwise Shown Below, Mail Tax Statements To:

NAME
STREET
ADDRESS
CITY,
STATE
ZIP

Attn: City Clerk
City of Rocklin
3970 Rocklin Road
Rocklin, CA, 95677

SPACE ABOVE THIS LINE FOR RECORDERS USE

This Order No. _____ Escrow No. _____

DOCUMENTARY TRANSFER TAX \$ is N/A

COMPUTED ON FULL VALUE OF PROPERTY CONVEYED,

OR COMPUTED ON FULL VALUE LESS LIENS AND

ENCUMBRANCES REMAINING AT THE TIME OF SALE.

PUBLIC UTILITY EASEMENT DEED

Record Without Fee

Govt. Code. §6103 & §27383

Project Name: Racetrack Road

APN: 045-090-025

Placer County, California

THIS TRANSACTION IS EXEMPT FROM CALIFORNIA DOCUMENTARY TRANSFER TAX PURSUANT TO SECTION 11922 OF THE CALIFORNIA REVENUE AND TAXATION CODE. THIS DOCUMENT IS EXEMPT FROM RECORDING FEES PURSUANT TO SECTIONS 6103 and 27383 OF THE CALIFORNIA GOVERNMENT CODE.

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Gary L. Gates and James Helms, as joint tenants hereby GRANT(S) to the CITY OF ROCKLIN, a municipal corporation, the following described Public Utility Easement for water, gas, sewer and drainage pipes, electric, gas, television, telephone, telecommunications services and other public utilities together with any and all appurtenances thereto, and together with the perpetual right of ingress to and egress from said property for the purpose of exercising and performing all of the rights and privileges herein granted, on, over, across and under said property described as follows: In the City of Rocklin, County of Placer, State of California, more particularly described in Exhibit "A" and depicted in Exhibit "B" attached hereto and made part thereof.

Dated: 10.22.16

Gary L. Gates and James Helms
as joint tenants

BY: 

BY: 

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

On Oct. 22, 2016, before me, Benjamin H. Eagleton, Notary Public, personally appeared James Helms

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

[Signature]



This area for official notarial seal

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF California) SS
COUNTY OF Placer)

On Oct. 22, 2016, before me, Benjamin H. Eagleton, Notary Public, personally appeared Gary L. Galt

, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

[Handwritten Signature]



This area for official notarial seal

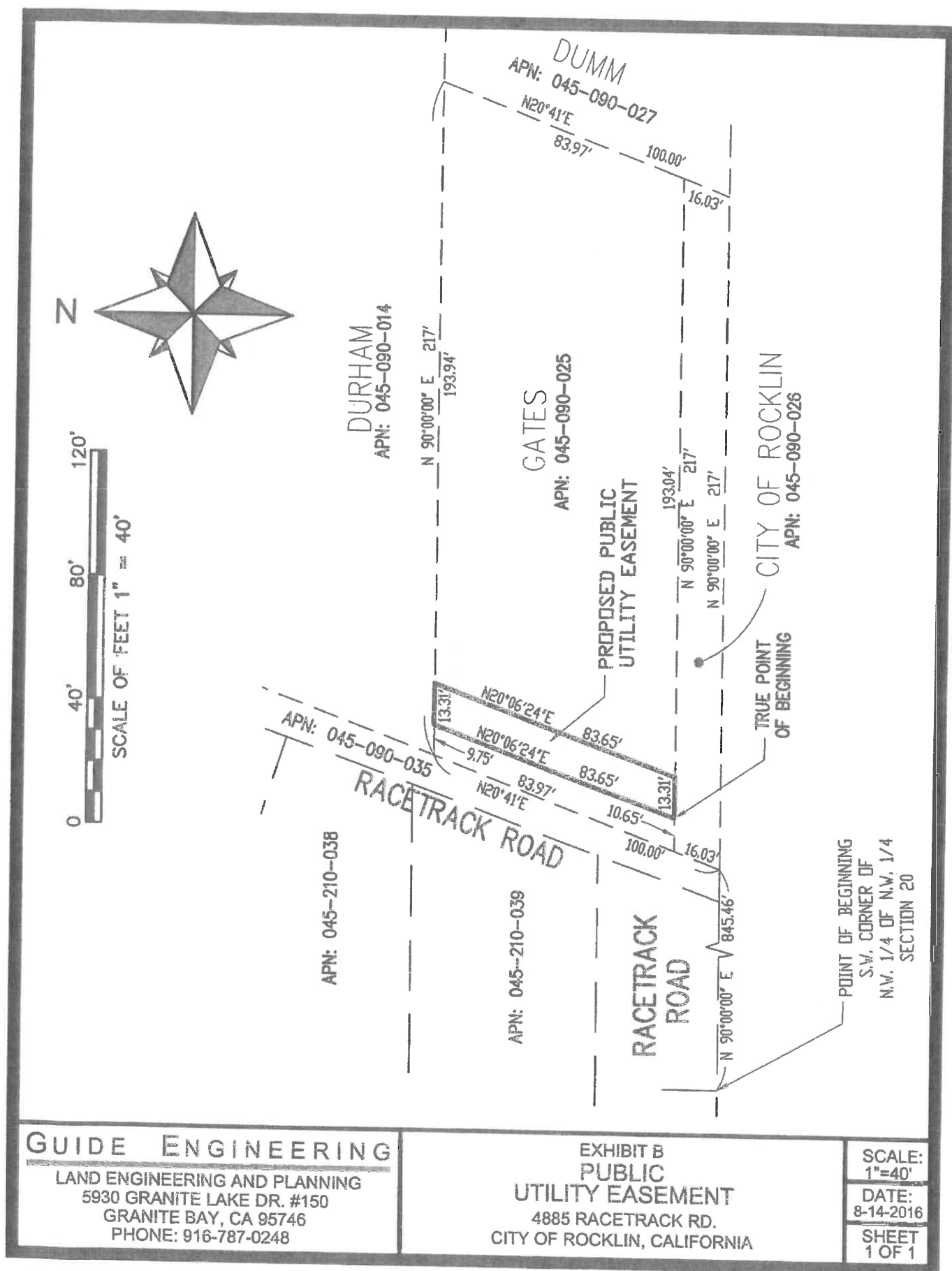
EXHIBIT "A"
(4885 RACETRACK ROAD)
PUBLIC UTILITY EASEMENT
PAGE 1 OF 1

ALL THAT REAL PROPERTY IN THE CITY OF ROCKLIN, COUNTY OF PLACER, STATE OF CALIFORNIA, DESCRIBED AS:

A PORTION OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, TOWNSHIP 11 NORTH, RANGE 7 EAST, M.D.B. & M., PLACER COUNTY, CALIFORNIA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE SOUTH LINE OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 20, FROM WHICH THE SOUTHWEST CORNER THEREOF BEARS WESTERLY 845.46 FEET; THENCE NORTH 20°41' EAST 16.03 FEET; THENCE EAST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 10.65 FEET TO THE **TRUE POINT OF BEGINNING**; THENCE NORTH 20°06'24" EAST 83.65 FEET; THENCE EAST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 13.31 FEET; THENCE SOUTH 20°06'24" WEST 83.65 FEET; THENCE WEST PARALLEL TO THE SOUTH LINE OF SAID NORTHWEST QUARTER OF THE NORTHWEST QUARTER 13.31 FEET TO THE **TRUE POINT OF BEGINNING**.

CONTAINING 0.024 ACRES, MORE OR LESS.



RECORDING REQUESTED BY AND
WHEN RECORDED, MAIL TO:

Attention: City Clerk

City of Rocklin

3970 Rocklin Road, CA 95677

(SPACE ABOVE THIS LINE RESERVED FOR RECORDER'S USE)

Record Without Fee

Covt. Code. Sections 6103 & 27383

GRANT OF ACCESS AND PUBLIC UTILITY EASEMENT

29th **THIS GRANT OF ACCESS AND PUBLIC UTILITY EASEMENT** is made this
day of AUGUST, 2015.

RECITALS

WHEREAS, Grantor is the owner of certain real property located in the City of Rocklin, County of Placer, California and more particularly described on **Exhibit "A,"** attached hereto; and

NOW, THEREFORE, it is agreed as follows:

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, Kiran Rawat, hereby GRANT(S) to the CITY OF ROCKLIN, a municipal corporation, the following described Access and Public Utility Easement for water, gas, sewer and drainage pipes, electric, gas, television, telephone, telecommunications services and other public utilities together with any and all appurtenances thereto, and together with the perpetual right of ingress to and egress from said property for the purpose of exercising and performing all of the rights and privileges herein granted, on, over, across and under said property described as follows: In the City of Rocklin, County of Placer, State of California, more particularly described in Exhibit "A"

IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

GRANTOR

KIRWAN RAWAT

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Sacramento }

On Aug 28, 2015 before me, Abdul Shah
(Here insert name and title of the officer)

personally appeared Kiran Rawat,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

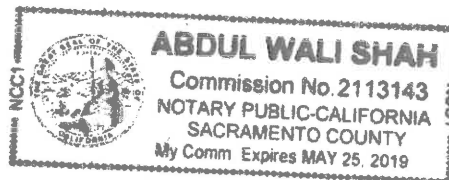
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Abdul Wali Shah

Notary Public Signature

(Notary Public Seal)



ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

Grant of Easement

(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages 2 Document Date 8/28/15

CAPACITY CLAIMED BY THE SIGNER

- ☒ Individual (s)
☐ Corporate Officer

(Title)

- ☐ Partner(s)
☐ Attorney-in-Fact
☐ Trustee(s)
☐ Other _____

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. he/she/they- is /are) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
 - ❖ Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
 - ❖ Indicate title or type of attached document, number of pages and date.
 - ❖ Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

EXHIBIT "A"

045-080-035-000

All that portion of the Northwest quarter of the Northwest quarter of Section 20, Township 11 North, Range 7 East, MDB&M, which commences at the Southwest corner of the Northwest quarter of the Northwest quarter of said Section 20; thence South 89° 57' East along the Southerly line thereof a distance of 845.46 feet; thence North 20° 41' East, a distance of 990.30 feet; thence North 15° 30' East, a distance of 66.00 feet; thence North 2° 30' West, a distance of 66.00 feet; thence North 18° 30' West, a distance of 66.00 feet; thence North 32° 30' West, a distance of 65.00 feet; thence North 45° 45' West a distance of 66.00 feet; thence North 57° 30' West, a distance of 66.00 feet; thence North 75° 30' West, a distance of 66.00 feet; thence North 88° 27' West, a distance of 327.36 feet to a point which bears South a distance of 20.00 feet and South 88° 27' East, a distance of 660.00 feet from the section corner common to Sections 17, 18, 19 and 20; thence South 20° 30' 30" West a distance of 882.69 feet; thence South 0° 23' 30" West, a distance of 394.02 feet; thence North 89° 57' West, and parallel to the Southerly line of the Northwest quarter of the Northwest quarter of said Section 20, a distance of 347.16 feet to a point on the Westerly line of said Section 20, thence South 0° 23'-1/2" West along the Westerly line of said Section 20, a distance of 60.00 feet to the point of commencement.

Excepting any portion thereof that might lie within Lot 13 as shown on that certain map entitled, "Lawson Bros. Subdivision" filed in the office of the Recorder of the County of Placer, on June 24, 1905 in Book A of Maps, page 20.

Also excepting therefrom the following four parcels;

- (1) All that real property included within the boundaries of that Subdivision known as Racetrack Unit No. 1, Recorded in the Placer County Records Office in Book K, at Page 51.
- (2) All that real property included within the boundaries of the Subdivision known as Racetrack Unit No. 2, Recorded in the Placer County Records Office in Book K, at Page 87.
- (3) All that real property included within the boundaries of that parcel map of record recorded in Book 9, at Page 46, of the Placer County Records Office.
- (4) Excepting therefrom all that real property lying North of the following described line: Commencing at the Southwest corner of the Northwest quarter of the Northwest quarter of Section 20, Township 11 North, Range 7 East, MDB&M, and running thence along the South line of a 40 acre tract, South 89° 57' East 845.46 feet to a point designated "A", thence North 20° 41' East 990.30 feet, thence North 15° 30' East 66.00 feet; thence North 2° 30' West 66.00 feet to a point designated "B", being the point of beginning. Thence due West to the East boundary of that Subdivision known as Racetrack Unit No. 2, as recorded in the Placer County Records Office in Book K, Page 87.



City Council Report

Subject: Final Map Sunset at Stanford Ranch Subdivision (SD-2014-0004)

Submitted by: Marc Mondell, Director
Dave Palmer, City Engineer-Presenter

Date: November 8, 2016

Department: Economic & Community Development

- **Staff Recommendation:** It is recommended that the City Council of the City Of Rocklin approve the Final Map for Sunset at Stanford Ranch Subdivision (SD-2014-0004)
-

BACKGROUND: The tentative subdivision map for the Sunset at Stanford Ranch Subdivision was approved by the City Council on January 13, 2015 per Resolution No. 2015-27. This property is now being subdivided into single-family residential lots and lettered lots per this final map.

FINDINGS, CONCLUSIONS & RECOMMENDATIONS:

Findings:

- **Location:** This project is generally located on the southerly corner of the intersection of Pebble Creek Drive and Coppervale Drive.
- **Subdivider:** KB Home Sacramento, Inc., A California Corporation
- **No. Of Parcels:** 47 single-family residential lots and 4 lettered lots.

Conclusions:

- The map is technically correct. All conditions of approval have been met and all fees have been paid. The map is ready for approval.

Recommendations:

- It is recommended that the City Council of the City of Rocklin approve the Final Map of the Sunset at Stanford Ranch Subdivision including the following agreements:

-
- 1) Subdivision Improvement Agreement
 - 2) Subdivision Landscape Agreement

Fiscal Impact: Sunset at Stanford Ranch is a gated subdivision. All streets and lots will be owned and maintained by a Homeowner's Association.

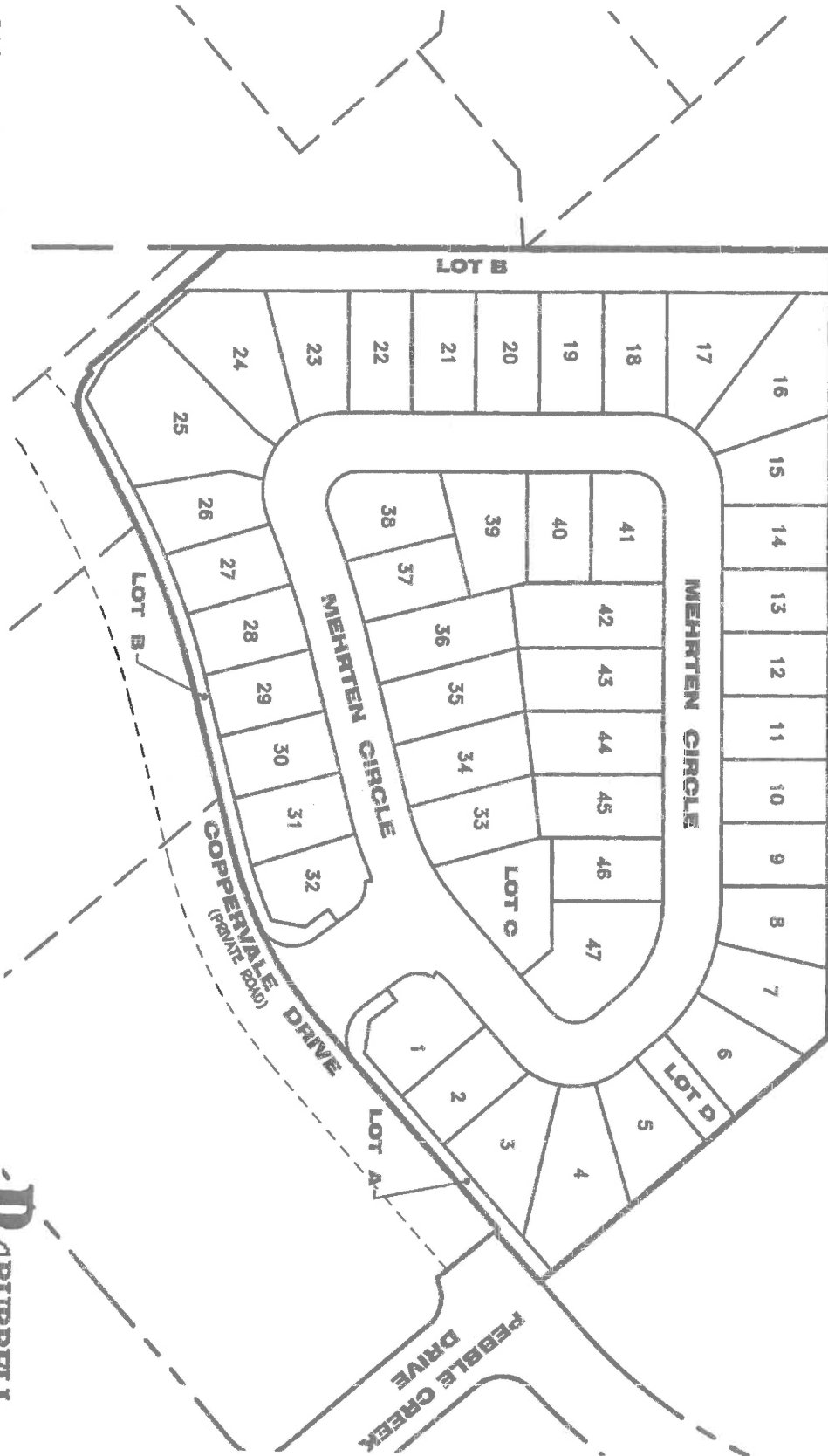
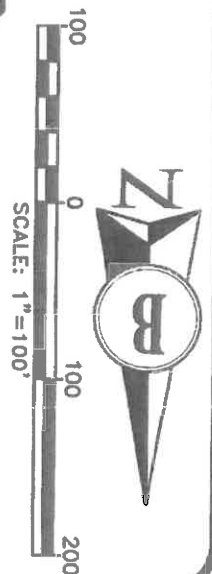


Ricky A. Horst, City Manager
Reviewed for Content



DeeAnne Gillick, Interim City Attorney
Reviewed for Legal Sufficiency

EXHIBIT "A"
FINAL MAP
SUNSET AT STANFORD RANCH



PAGE 1 OF EXHIBIT "A" OF
SUBDIVISION IMPROVEMENT AGREEMENT
RESOLUTION NO. 2016-

BURRELL
CONSULTING
GROUP, INC.
1001 Enterprise Way, Suite 100
Roseville, CA 95678 (916) 783-8898



RESOLUTION NO.

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROCKLIN APPROVING THE FINAL MAP OF SUNSET AT STANFORD RANCH SUBDIVISION AND APPROVING AND AUTHORIZING EXECUTION OF A SUBDIVISION IMPROVEMENT AGREEMENT

The City Council of the City of Rocklin does resolve as follows:

Section 1. The City Council of the City of Rocklin hereby finds as follows:

A. That a tentative subdivision map for a subdivision known as Sunset at Stanford Ranch Subdivision (SD2014-0004) (the "Subdivision") and submitted by KB Home Sacramento, Inc. (the "Subdivider") was approved subject to certain conditions;

B. That the Subdivider has fully satisfied all said conditions, except for certain subdivision improvements, if any, that have not been completed and accepted, and as to those improvements Subdivider has executed and provided security for a subdivision improvement agreement obligating Subdivider to complete the improvements within a specified period of time. Subdivider now desires to record a final map for the Subdivision;

C. That the City Engineer has reviewed the final map for the Subdivision and has determined that it substantially conforms to the approved tentative map and all conditions and requirements of that approval, and now recommends approval of the final map.

Section 2. The City Council hereby approves the final map for the Subdivision and accepts on behalf of the public the dedication of the easements shown and offered on the final map for the Subdivision, subject to improvements and acceptance thereof by the City. The City Council hereby further accepts on behalf of the public the dedication of the following:

N/A

Section 3. The subdivision improvement agreement attached hereto as Exhibit A and by this reference incorporated herein is hereby approved and the City Manager is authorized and directed to execute the agreement on behalf of the City.

Section 4. The City Clerk is hereby authorized and directed to record the final map for the Subdivision, and all related documents referred to in this Resolution, in the Office of the Placer County Recorder when fully executed and notarized.

PASSED AND ADOPTED this 8th day of November, 2016, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

ABSTAIN: Councilmembers:

Gregory A. Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk

d:\legal\engineering\subdivision improvement\subdivis imprv agr
071813

Recording Requested by
and Return to:

City Clerk
City of Rocklin
3970 Rocklin Road
Rocklin, CA 95677

Subdivision Name: Sunset at Stanford Ranch Subdivision
Subdivision No.: SD2014-0004
Recorded at: Book _____ of Maps, at Page _____, Placer County Recorder
Principal: KB Home Sacramento, Inc.
Effective Date: _____

SUBDIVISION IMPROVEMENT AGREEMENT

This Subdivision Improvement Agreement is entered into by and between the City of Rocklin, hereinafter called "City," and KB Home Sacramento, Inc., hereinafter called "Principal," on the 8th day of November, 2016.

RECITALS

1. Principal has received approval from City of a tentative subdivision map commonly known as Sunset at Stanford Ranch Subdivision ("the subdivision").
2. Principal wishes to have filed for record a final subdivision map, ("the map"), in substantial conformity with the approved tentative map. A copy of this map is attached hereto as Exhibit A and by this reference incorporated herein.
3. City has approved the map, subject to the execution of this Agreement.
4. Principal is willing to execute this Agreement as a condition precedent to the recording of the map.
5. The authority for this Agreement is set forth in the Subdivision Map Act ("the Map Act") (Government Code section 66410 et seq.) and Title 16 of the Rocklin Municipal Code ("Title 16").

AGREEMENT

6. **Acceptance of Rights of Way.** City hereby accepts on behalf of the public all lands, rights of way, and easements offered for dedication on the map, in accordance with the conditions hereinafter set forth.

7. **Improvements.** Principal agrees to complete all the works of improvement ("the improvements") required for the subdivision as shown on the final improvement plans for the subdivision submitted to and approved by the City Engineer and on file in the office of the City Engineer, in accordance with the requirements of the Map Act, Title 16, and the Standard Specifications of City in effect at the time of the installation of the improvements. Such work will be completed within 18 months of the date of this Agreement.

8. **Acceptance of Improvements upon Completion.** Upon satisfactory completion of the improvements in accordance with the approved improvement plans, the Standard Specifications and the conditions of approval of the tentative subdivision map, City agrees to accept for maintenance the improvements and any off-site easements accepted by City, subject to the provisions of Paragraph 10 hereof.

9. **Notice Regarding Construction.** Principal shall notify the City Engineer 48 hours prior to commencement of construction of the improvements.

10. **Warranty.** Principal agrees to remedy any defects in the improvements arising from faulty or defective design or construction of said improvements occurring within twelve (12) months after acceptance thereof has been given in writing by the City Council.

11. **Indemnity and Hold Harmless.** Principal agrees to and shall defend, indemnify and hold harmless City, its officers, employees, agents and volunteers from and against all claims, damages, losses and expenses, including attorneys fees and litigation costs and expenses, arising out of the performance of the work described herein, caused in whole or in part by any negligent act or omission of Principal, any subcontractor of Principal, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, except where caused by the active negligence, sole negligence or willful misconduct of City. Lack of insurance coverage does not negate Principal's obligation under this paragraph or this Agreement.

12. **Delay.** If the construction of the improvements shall be delayed without fault of Principal, the time for completion thereof may be extended by City for such period of time as City may deem reasonable.

13. **Security.** Principal shall furnish to City security to ensure the faithful performance of all duties and obligations of Principal herein contained. Such improvement security shall be in a form acceptable to the City Attorney. Such security shall be either a corporate surety bond, a letter of credit or other instrument of credit issued by a banking institution subject to regulation by the State or Federal government and pledging that the funds necessary to carry out this Agreement are on deposit and guaranteed for payment, or a cash deposit made either directly with the City or deposited with a recognized escrow agent for the benefit of the City. Such security shall be in the following amounts for the following purposes:

(a) **Performance:** One hundred percent (100%) of the estimated cost of the improvements securing performance of this Agreement, which estimated cost is in the amount of: ONE MILLION EIGHT HUNDRED NINETY TWO THOUSAND SEVEN HUNDRED NINETY ONE DOLLARS (\$1,892,791.00).

(b) **Payment of Labor and Materials:** One hundred percent (100%) of the estimated cost of the improvements, as set forth in Paragraph (a) immediately preceding, securing payment to the contractor of improvements, to his subcontractors, and to persons furnishing labor, materials, or equipment to them.

(c) **Warranty:** The amount of THREE HUNDRED SEVENTY EIGHT THOUSAND FIVE HUNDRED FIFTY NINE DOLLARS (\$378,559.00) to guarantee and warrant the improvements for a period of one (1) year following the completion and acceptance of the improvements against any defects in the improvement design, the work, or the labor done, or defects in materials furnished. This security need not be furnished prior to completion of the improvements, but must be provided prior to their acceptance.

(d) **Survey Monumentation:** One hundred percent (100%) of the estimated cost of the installation of survey monuments, which estimated cost is in the amount of THREE THOUSAND FIVE HUNDRED dollars (\$3,500).

14. **Irrevocability of Security.** The improvement security furnished pursuant to Paragraph 13 shall be irrevocable, shall not be limited as to time (except as to the 1-year period specified in Paragraph 10), and shall provide that it shall be released, in whole or in part, only upon the written approval of the City Engineer or his delegate.

15. **Actions.** At City's option, any action by any party to this Agreement, or any action concerning the security furnished pursuant to Paragraph 13, shall be brought in the appropriate court of competent jurisdiction within the County of Placer,

notwithstanding any other provision of law which may provide that such action may be brought in some other location.

16. **Inspection; Release of Security For Faithful Performance.** Principal may, from time to time, request the City Engineer to inspect the improvements as they progress. The City Engineer may, at his option, if he finds the work to be in accordance with the Standard Specifications, accept so much of that work as is completed, and authorize a release pro tanto of the security provided pursuant to Paragraph 13(a); provided, however, that in no event shall he authorize the release of more than eighty (80%) of the improvement security until all the work has been completed and accepted.

17. **Release of Remaining Security For Faithful Performance: Warranty.** At the conclusion of the construction of the improvements, and upon written acceptance of them by the City Council and approval of a Notice of Completion, the City Engineer shall authorize the release of the security provided pursuant to Paragraph 13(a) upon the furnishing of the warranty security as required by Paragraph 13(c).

18. **Release of Security Where Other Agency Approval Required.** Notwithstanding paragraphs 16 and 17, where any portion of the improvements is subject to approval by another agency, no release of security equal to the value of those improvements shall be made until the work is completed to the satisfaction of such other agency. Such other agency shall have two (2) months after completion of the performance of the obligation in which to register satisfaction or dissatisfaction. If at the end of that period it has not registered satisfaction or dissatisfaction, it shall be conclusively deemed that the performance of the obligation was done to its satisfaction.

19. **Release of Labor and Materials Security.** Ninety (90) days after a notice of completion is filed with respect to the improvements, the City Engineer may authorize the release of the security given to secure payment for labor and materials as provided in Paragraph 13(b) of this agreement, in the event that no claims have been filed against said security. In the event that claims or actions are filed against the security, the City Engineer may release so much of such security as is in excess of the total of the claims made against it.

20. **Insurance.**

A. Principal shall procure and maintain for the duration of this Agreement insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of work under this Agreement and the results of that work by Principal, its agents, representatives, employees, or subcontractors. All coverage available to the Principal as named insured shall be made available to the City, its officers, employees and volunteers as additional

insured. Principal shall provide to City the full policy limits of Principal's insurance, with coverage at least as broad as, and limits no less than, the following:

1. General Liability. Principal shall maintain in full force and effect a policy of commercial general liability insurance (ISO occurrence form CG0001) with limits no less than the following: two million dollars (\$2,000,000) per occurrence for bodily injury, personal injury, and property damage. If a general aggregate limit is used, either the general aggregate limit shall apply separately to this agreement, or the general aggregate limit shall be twice the required occurrence limit. (The occurrence form of policy is required whenever it is available.)

2. Worker's Compensation and Employer's Liability Insurance. Principal shall fully comply with the law of California concerning worker's compensation. Said compliance shall include, but not be limited to, maintaining in full force and effect one or more policies of insurance insuring against any liability Principal may have for worker's compensation. Principal shall also maintain in full force and effect a policy of employer's liability insurance with limits no less than the following: one million dollars (\$1,000,000) each accident; one million dollars (\$1,000,000) policy limit bodily injury by disease; one million dollars (\$1,000,000) each employee bodily injury by disease.

3. Automobile. Principal shall maintain in full force and effect a policy of commercial automobile liability insurance (ISO Form CA0001 Code 1 (any auto) or Code 8, 9 if no automobiles owned), with limits no less than the following: one million dollars (\$1,000,000) per accident for bodily injury and property damage.

B. The general liability and automobile policies are to contain, or be endorsed to contain, the following provisions:

1. The City, its officers, employees and volunteers shall be added as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of Principal, and with respect to liability arising out of work or operations performed by or on behalf of the Principal including materials, parts or equipment furnished in connection with such work or operations. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under subdivision (b) of section 2782 of the Civil Code.

2. For any claims related to work or operations performed by or on behalf of Principal, the Principal's insurance coverage shall be primary insurance as respects the City, its officers, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officers, employees, or volunteers shall be excess of the Principal's insurance and shall not contribute with it.

3. The insurance coverage shall not be assigned, reduced, amended, cancelled, terminated, or not renewed by either party except after thirty (30) days written notice by certified mail, return receipt requested, to City.

C. The insurance company or companies providing Principal the coverages required by this Agreement shall be admitted in the State of California and have a current A.M. Best's rating of no less than A:VIII or equivalent acceptable to City.

D. Any deductibles or self-insured retentions must be declared to and approved by the City. At the option of City, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the City, its officers, employees and volunteers; or the Principal shall procure a financial guarantee satisfactory to City guaranteeing payment of losses and related investigations, claim administration and defense expenses.

E. The insurance shall be maintained from the time the work first commences until completion of the work under this Agreement if an occurrence policy form is used. If a claims made policy form is used, the following requirements apply:

1. The "Retro Date" must be shown, and must be before the date of the contract or the beginning of contract work.

2. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of the contract of work.

3. If coverage is cancelled or non-renewed, and not replaced with another claims made policy form with a "Retro Date" prior to the contract effective date, the Principal must purchase "extended reporting" coverage for a minimum of five (5) years after completion of contract work.

4. A copy of the claims reporting requirements must be submitted to the City for review.

F. If Principal, for any reason, fails to maintain insurance coverage which is required under this Agreement, the failure shall be deemed a material breach of contract. City, at its sole option, may terminate this Agreement and obtain damages from Principal resulting from the breach. Alternatively, City may purchase the required insurance coverage, and without further notice to Principal, City may deduct from the sums due to Principal any premium costs advanced by City for the insurance.

G. Principal shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

H. Principal shall furnish City with original certificates and amendatory endorsements effecting coverage required by this Agreement. The certificates and endorsements should be on forms provided by the City, or on other than the City's forms, provided those endorsements or certifications conform to the requirements. All certificates and endorsements are to be received and approved by the City before work commences. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements effecting the coverage required by this Agreement at any time.

Principal shall replace certificates of insurance for policies expiring prior to completion of the work under the Agreement, and shall continue to furnish certificates for five years beyond the Agreement terminate date, when the Principal has a claims made form of insurance.

I. The worker's compensation and employee's liability insurance are to contain, or be endorsed to contain, the following provisions:

1. The insurance company waives any right of subrogation against the City, its officers, employees, and volunteers, which might arise by reason of any payment by the insurance company in connection with work performed by Principal under this Agreement.

2. The insurance coverage shall not be assigned, reduced, amended, cancelled, terminated, or not renewed by either party except after thirty (30) days written notice by certified mail, return receipt requested, to City.

21. **Monuments.** Principal agrees to install, on or before the issuance of the Notice of Completion, such survey monuments as may be required by the City Engineer. Upon the installation of such monuments, and their acceptance by the City Engineer, the security provided therefor shall be released.

22. **Failure of Performance.** In the event Principal fails to perform one or more of the conditions herein, City shall have recourse to the security given to guarantee the performance of such acts. City shall have recourse against so much of the security as is necessary to discharge the responsibility of Principal hereunder. City shall have recourse against Principal for any and all amounts necessary to complete the obligations of Principal in the event the security therefore is insufficient to pay such

amounts. All administrative costs incurred by the City, in addition to the costs of the improvements, shall be a proper charge against the security and/or Principal.

23. **Attorney's Fees.** If the services of any attorney are required by any party to secure the performance of this Agreement or otherwise upon the breach or default of another party, or if any judicial remedy or arbitration is necessary to enforce or interpret any provisions of this Agreement or the rights and duties of any person in relation to this Agreement, the prevailing party shall be entitled to reasonable attorney's fees, costs and other expenses, in addition to any other relief to which such party may be entitled. Prevailing party includes (a) a party who dismisses an action in exchange for sums allegedly due; (b) the party that receives performance from the other party of an alleged breach of covenant or a desired remedy, if it is substantially equal to the relief sought in an action; or (c) the party determined to be prevailing by a court of law.

Whenever provision is made in this Agreement for the payment of attorney's fees, such fees shall be payable whether the legal services are rendered by a salaried employee for the party or by independent counsel and shall include such fees as are incurred in connection with any pretrial proceeding, trial or appeal of the action.

Any award of damages following judicial remedy or arbitration as a result of the breach of this Agreement or any of its provisions shall include an award of prejudgment interest from the date of the breach at the maximum amount of interest allowed by law.

24. **Agreement Binding on Successors, Etc.** This Agreement shall be binding upon all the heirs, successors, and assigns of either party, and the same shall be recorded in the office of the Recorder of Placer County upon its execution, and shall be a covenant running with the land and equitable servitude upon the parcel or parcels of real property subdivided by the map.

25. **Subdivision Map Act Controlling.** To the extent any provision of this Agreement conflicts with any provision of the Map Act, the applicable provision of such Act shall control, and no action taken pursuant to this Agreement which conflicts with any provision of the Map Act shall relieve the person taking such action from compliance with the provisions of the Map Act.

26. **Waiver.** Failure by a party to insist upon the strict performance of any of the provisions of this Agreement by the other party, or the failure by a party to exercise its rights upon the default of the other party shall not constitute a waiver of such party's right to insist and demand strict compliance by the other party with the terms of this Agreement thereafter.

27. Other Provisions: _____

WHEREFORE, the parties hereto have executed this Agreement on the day and in the year first above written.

CITY OF ROCKLIN

By: _____
Ricky A. Horst, City Manager

PRINCIPAL

KB HOME SACRAMENTO, INC.
(Name of Principal)

By: _____
(Signature)

(Type Name)

(Type Title)

APPROVED AS TO FORM:

DeeAnne Gillick, Interim City Attorney

ATTEST:

Barbara Ivanusich, City Clerk

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Placer)

On this _____ day of _____, 20____, before me
_____, notary public,

(Notary Name and Title)

personally appeared _____ who
proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing paragraph is true and correct.

My Commission Expires: _____

Notary Public in and for said county and state

(SEAL)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Placer)

On this _____ day of _____, 20____, before me
_____, notary public,

(Notary Name and Title)

personally appeared _____

who

proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing paragraph is true and correct.

My Commission Expires: _____

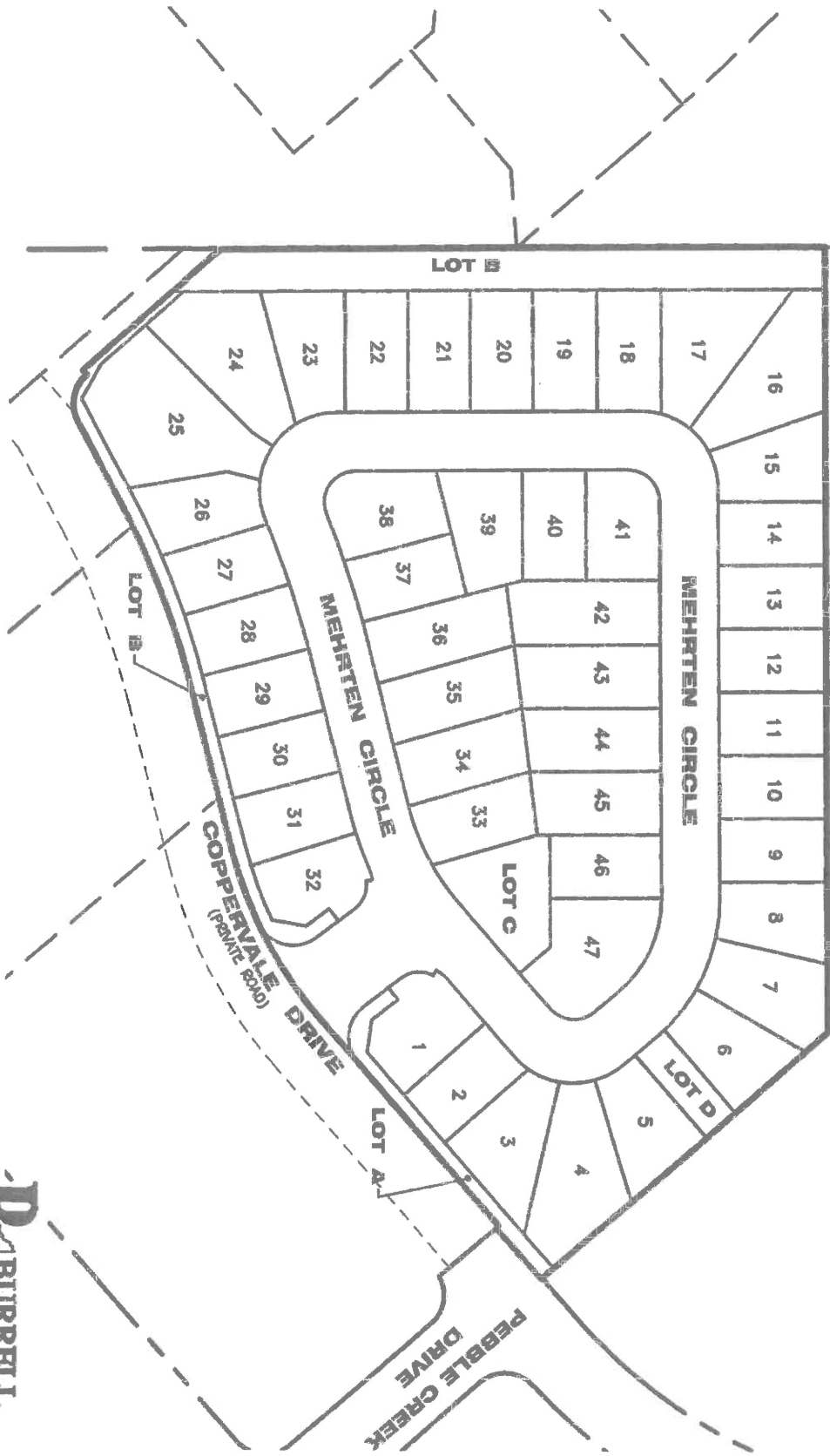
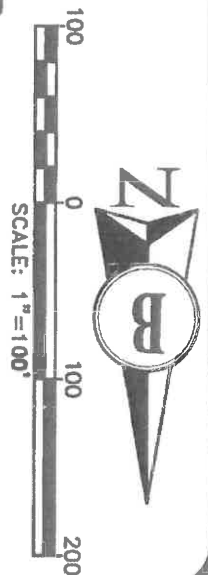
Notary Public in and for said county and state

(SEAL)

EXHIBIT A

FINAL MAP

EXHIBIT "A" **FINAL MAP** **SUNSET AT STANFORD RANCH**



PAGE 1 OF EXHIBIT "A" OF
 LANDSCAPE IMPROVEMENT AGREEMENT
 RESOLUTION NO. 2016-

BURRELL
 CONSULTING
 GROUP, INC.
 1001 Enterprise Way, Suite 100
 Roseville, CA 95678 (916) 783-8898

RESOLUTION NO.

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROCKLIN
APPROVING AND AUTHORIZING EXECUTION
OF A SUBDIVISION LANDSCAPING AGREEMENT
(SUNSET AT STANFORD RANCH SUBDIVISION/SD2014-0004)

The City Council of the City of Rocklin does resolve as follows:

Section 1. The City Council of the City of Rocklin hereby finds as follows:

A. That a final subdivision map for a subdivision known as Sunset at Stanford Ranch Subdivision (SD2014-0004) (the "Subdivision") has been submitted by KB Home Sacramento, Inc. (the "Subdivider") for approval;

B. That certain subdivision landscaping improvements which were made conditions of the tentative subdivision map have not been completed and accepted, and Subdivider has executed and provided security for a subdivision landscaping agreement obligating Subdivider to complete the landscaping improvements within a specified period of time. Subdivider requests the City Council to accept the subdivision landscaping agreement in satisfaction of the tentative map condition.

Section 2. The subdivision landscaping agreement attached hereto as Exhibit A and by this reference incorporated herein is hereby approved and accepted as satisfaction of the tentative map subdivision landscaping improvement conditions, and the City Manager is authorized and directed to execute the agreement on behalf of the City.

Section 3. The City Clerk is directed to record the subdivision landscaping agreement when fully executed and notarized in the office of the Placer County Recorder.

PASSED AND ADOPTED this 8th day of November, 2016, by the following vote:

AYES: Councilmembers:
NOES: Councilmembers:
ABSENT: Councilmembers:
ABSTAIN: Councilmembers:

Gregory A. Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk

d:/legal/engineering/subdivision improvement/subdivis landscape agr 071813



Recording Requested by
and Return to:

City Clerk
City of Rocklin
3970 Rocklin Road
Rocklin, CA 95677

Subdivision Name: Sunset at Stanford Ranch Subdivision
Subdivision No.: SD2014-0004
Recorded at: Book _____ of Maps, at Page _____, Placer County Recorder
Principal: KB Home Sacramento, Inc.
Effective Date: _____

SUBDIVISION LANDSCAPING AGREEMENT

This Subdivision Landscaping Agreement is entered into by and between the City of Rocklin, hereinafter called "City," and KB Home Sacramento, Inc., hereinafter called "Principal," on the 8th day of November, 2016.

RECITALS

1. Principal has received approval from City of a tentative subdivision map commonly known as Sunset at Stanford Ranch Subdivision ("the subdivision").
2. Principal wishes to have filed for record a final subdivision map, ("the map"), in substantial conformity with the approved tentative map. A copy of this map is attached hereto as Exhibit A and by this reference incorporated herein.
3. City has approved the map, subject to the execution of this Agreement.
4. Principal is willing to execute this Agreement as a condition precedent to the recording of the map.
5. The authority for this Agreement is set forth in the Subdivision Map Act ("the Map Act") (Government Code section 66410 et seq.) and Title 16 of the Rocklin Municipal Code ("Title 16").

Page 1 of Exhibit A
to Reso. No.

Rev. 07/18/13

AGREEMENT

6. **Improvements.** Principal agrees to complete all the works of landscaping improvement ("the improvements") required for the subdivision as shown on the final landscaping plans for the subdivision submitted to and approved by the City Engineer and on file in the office of the City Engineer, in accordance with the requirements of the Map Act, Title 16, and the Standard Specifications of City in effect at the time of the installation of the improvements. Such work will be completed within twelve (12) months of the date of this Agreement.

7. **Acceptance of Improvements upon Completion.** Upon satisfactory completion of the improvements in accordance with the approved landscaping plans, the Standard Specifications and the conditions of approval of the tentative subdivision map, City agrees to accept for maintenance the improvements and any off-site easements accepted by City, subject to the provisions of Paragraph 9 hereof.

8. **Notice Regarding Construction.** Principal shall notify the City Engineer 48 hours prior to commencement of construction of the improvements.

9. **Warranty.** Principal agrees to remedy any defects in the improvements arising from faulty or defective design or construction of said improvements occurring within two (2) years after acceptance thereof has been given in writing by the City Council.

10. **Indemnity and Hold Harmless.** Principal agrees to and shall defend, indemnify and hold harmless City, its officers, employees, agents and volunteers from and against all claims, damages, losses and expenses, including attorneys fees and litigation costs and expenses, arising out of the performance of the work described herein, caused in whole or in part by any negligent act or omission of Principal, any subcontractor of Principal, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, except where caused by the active negligence, sole negligence or willful misconduct of City. Lack of insurance coverage does not negate Principal's obligation under this paragraph or this Agreement.

11. **Delay.** If the construction of the improvements shall be delayed without fault of Principal, the time for completion thereof may be extended by City for such period of time as City may deem reasonable.

12. **Security.** Principal shall furnish to City security to ensure the faithful performance of all duties and obligations of Principal herein contained. Such improvement security shall be in a form acceptable to the City Attorney. Such security

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to Reso. No.

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shall be either a corporate surety bond, a letter of credit or other instrument of credit issued by a banking institution subject to regulation by the State or Federal government and pledging that the funds necessary to carry out this Agreement are on deposit and guaranteed for payment, or a cash deposit made either directly with the City or deposited with a recognized escrow agent for the benefit of the City. Such security shall be in the following amounts for the following purposes:

(a) **Performance:** One hundred percent (100%) of the estimated cost of the improvements securing performance of this Agreement, which estimated cost is in the amount of: TWO HUNDRED FIFTY EIGHT THOUSAND TWO HUNDRED SIXTY dollars (\$258,260.00).

(b) **Payment of Labor and Materials:** One hundred percent (100%) of the estimated cost of the improvements, as set forth in Paragraph (a) immediately preceding, securing payment to the contractor of improvements, to his subcontractors, and to persons furnishing labor, materials, or equipment to them.

(c) **Warranty:** The amount of FIFTY ONE THOUSAND SIX HUNDRED FIFTY TWO dollars (\$51,652.00) to guarantee and warrant the improvements for a period of two (2) years following the completion and acceptance of the improvements against any defects in the improvement design, the work, or the labor done, or defects in materials furnished. This security need not be furnished prior to completion of the improvements, but must be provided prior to their acceptance.

13. **Irrevocability of Security.** The improvement security furnished pursuant to Paragraph 12 shall be irrevocable, shall not be limited as to time (except as to the 2-year period specified in Paragraph 9), and shall provide that it shall be released, in whole or in part, only upon the written approval of the City Engineer or his delegate.

14. **Actions.** At City's option, any action by any party to this Agreement, or any action concerning the security furnished pursuant to Paragraph 12, shall be brought in the appropriate court of competent jurisdiction within the County of Placer, notwithstanding any other provision of law which may provide that such action may be brought in some other location.

15. **Inspection; Release of Security For Faithful Performance.** Principal may, from time to time, request the City Engineer to inspect the improvements as they progress. The City Engineer may, at his option, if he finds the work to be in accordance with the Standard Specifications, accept so much of that work as is completed, and authorize a release pro tanto of the security provided pursuant to Paragraph 12(a); provided, however, that in no event shall he authorize the release of more than eighty (80%) of the improvement security until all the work has been completed and accepted.

16. **Release of Remaining Security For Faithful Performance: Warranty.** At the conclusion of the construction of the improvements, and upon written acceptance of them by the City Council and approval of a Notice of Completion, the City Engineer shall authorize the release of the security provided pursuant to Paragraph 12(a) upon the furnishing of the warranty security as required by Paragraph 12(c).

17. **Release of Security Where Other Agency Approval Required.** Notwithstanding paragraphs 15 and 16, where any portion of the improvements is subject to approval by another agency, no release of security equal to the value of those improvements shall be made until the work is completed to the satisfaction of such other agency. Such other agency shall have two (2) months after completion of the performance of the obligation in which to register satisfaction or dissatisfaction. If at the end of that period it has not registered satisfaction or dissatisfaction, it shall be conclusively deemed that the performance of the obligation was done to its satisfaction.

18. **Release of Labor and Materials Security.** Ninety (90) days after a notice of completion is filed with respect to the improvements, the City Engineer may authorize the release of the security given to secure payment for labor and materials as provided in Paragraph 12(b) of this agreement, in the event that no claims have been filed against said security. In the event that claims or actions are filed against the security, the City Engineer may release so much of such security as is in excess of the total of the claims made against it.

19. **Insurance.**

A. Principal shall procure and maintain for the duration of this Agreement insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of work under this Agreement and the results of that work by Principal, its agents, representatives, employees, or subcontractors. All coverage available to the Principal as named insured shall be made available to the City, its officers, employees and volunteers as additional insured. Principal shall provide to City the full policy limits of Principal's insurance, with coverage at least as broad as, and limits no less than, the following:

1. **General Liability.** Principal shall maintain in full force and effect a policy of commercial general liability insurance (ISO occurrence form CG0001) with limits no less than the following: one million dollars (\$1,000,000) per occurrence for bodily injury, personal injury, and property damage. If a general aggregate limit is used, either the general aggregate limit shall apply separately to this agreement, or the general aggregate limit shall be twice the required occurrence limit. (The occurrence form of policy is required whenever it is available.)

2. Worker's Compensation and Employer's Liability Insurance. Principal shall fully comply with the law of California concerning worker's compensation. Said compliance shall include, but not be limited to, maintaining in full force and effect one or more policies of insurance insuring against any liability Principal may have for worker's compensation. Principal shall also maintain in full force and effect a policy of employer's liability insurance with limits no less than the following: one million dollars (\$1,000,000) each accident; one million dollars (\$1,000,000) policy limit bodily injury by disease; one million dollars (\$1,000,000) each employee bodily injury by disease.

3. Automobile. Principal shall maintain in full force and effect a policy of commercial automobile liability insurance (ISO Form CA0001 Code 1 (any auto) or Code 8, 9 if no automobiles owned), with limits no less than the following: one million dollars (\$1,000,000) per accident for bodily injury and property damage.

B. The general liability and automobile policies are to contain, or be endorsed to contain, the following provisions:

1. The City, its officers, employees and volunteers shall be added as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of Principal, and with respect to liability arising out of work or operations performed by or on behalf of the Principal including materials, parts or equipment furnished in connection with such work or operations. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under subdivision (b) of section 2782 of the Civil Code.

2. For any claims related to work or operations performed by or on behalf of Principal, the Principal's insurance coverage shall be primary insurance as respects the City, its officers, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officers, employees, or volunteers shall be excess of the Principal's insurance and shall not contribute with it.

3. The insurance coverage shall not be assigned, reduced, amended, cancelled, terminated, or not renewed by either party except after thirty (30) days written notice by certified mail, return receipt requested, to City.

C. The insurance company or companies providing Principal the coverages required by this Agreement shall be admitted in the State of California and have a current A.M. Best's rating of no less than A:VIII or equivalent acceptable to City.

D. Any deductibles or self-insured retentions must be declared to and approved by the City. At the option of City, either: the insurer shall reduce or
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eliminate such deductibles or self-insured retentions as respects the City, its officers, employees and volunteers; or the Principal shall procure a financial guarantee satisfactory to City guaranteeing payment of losses and related investigations, claim administration and defense expenses.

E. The insurance shall be maintained from the time the work first commences until completion of the work under this Agreement if an occurrence policy form is used. If a claims made policy form is used, the following requirements apply:

1. The "Retro Date" must be shown, and must be before the date of the contract or the beginning of contract work.

2. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of the contract of work.

3. If coverage is cancelled or non-renewed, and not replaced with another claims made policy form with a "Retro Date" prior to the contract effective date, the Principal must purchase "extended reporting" coverage for a minimum of five (5) years after completion of contract work.

4. A copy of the claims reporting requirements must be submitted to the City for review.

F. If Principal, for any reason, fails to maintain insurance coverage which is required under this Agreement, the failure shall be deemed a material breach of contract. City, at its sole option, may terminate this Agreement and obtain damages from Principal resulting from the breach. Alternatively, City may purchase the required insurance coverage, and without further notice to Principal, City may deduct from the sums due to Principal any premium costs advanced by City for the insurance.

G. Principal shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

H. Principal shall furnish City with original certificates and amendatory endorsements effecting coverage required by this Agreement. The certificates and endorsements should be on forms provided by the City, or on other than the City's forms, provided those endorsements or certifications conform to the requirements. All certificates and endorsements are to be received and approved by the City before work commences. The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements effecting the coverage required by this Agreement at any time.

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Principal shall replace certificates of insurance for policies expiring prior to completion of the work under the Agreement, and shall continue to furnish certificates for five years beyond the Agreement terminate date, when the Principal has a claims made form of insurance.

I. The worker's compensation and employee's liability insurance are to contain, or be endorsed to contain, the following provisions:

1. The insurance company waives any right of subrogation against the City, its officers, employees, and volunteers, which might arise by reason of any payment by the insurance company in connection with work performed by Principal under this Agreement.

2. The insurance coverage shall not be assigned, reduced, amended, cancelled, terminated, or not renewed by either party except after thirty (30) days written notice by certified mail, return receipt requested, to City.

20. **Failure of Performance.** In the event Principal fails to perform one or more of the conditions herein, City shall have recourse to the security given to guarantee the performance of such acts. City shall have recourse against so much of the security as is necessary to discharge the responsibility of Principal hereunder. City shall have recourse against Principal for any and all amounts necessary to complete the obligations of Principal in the event the security therefore is insufficient to pay such amounts. All administrative costs incurred by the City, in addition to the costs of the improvements, shall be a proper charge against the security and/or Principal.

21. **Attorney's Fees.** If the services of any attorney are required by any party to secure the performance of this Agreement or otherwise upon the breach or default of another party, or if any judicial remedy or arbitration is necessary to enforce or interpret any provisions of this Agreement or the rights and duties of any person in relation to this Agreement, the prevailing party shall be entitled to reasonable attorney's fees, costs and other expenses, in addition to any other relief to which such party may be entitled. Prevailing party includes (a) a party who dismisses an action in exchange for sums allegedly due; (b) the party that receives performance from the other party of an alleged breach of covenant or a desired remedy, if it is substantially equal to the relief sought in an action; or (c) the party determined to be prevailing by a court of law.

Whenever provision is made in this Agreement for the payment of attorney's fees, such fees shall be payable whether the legal services are rendered by a salaried employee for the party or by independent counsel and shall include such fees as are incurred in connection with any pretrial proceeding, trial or appeal of the action.

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Any award of damages following judicial remedy or arbitration as a result of the breach of this Agreement or any of its provisions shall include an award of prejudgment interest from the date of the breach at the maximum amount of interest allowed by law.

22. **Agreement Binding on Successors, Etc.** This Agreement shall be binding upon all the heirs, successors, and assigns of either party, and the same shall be recorded in the office of the Recorder of Placer County upon its execution, and shall be a covenant running with the land and equitable servitude upon the parcel or parcels of real property subdivided by the map.

23. **Subdivision Map Act Controlling.** To the extent any provision of this Agreement conflicts with any provision of the Map Act, the applicable provision of such Act shall control, and no action taken pursuant to this Agreement which conflicts with any provision of the Map Act shall relieve the person taking such action from compliance with the provisions of the Map Act.

24. **Waiver.** Failure by a party to insist upon the strict performance of any of the provisions of this Agreement by the other party, or the failure by a party to exercise its rights upon the default of the other party shall not constitute a waiver of such party's right to insist and demand strict compliance by the other party with the terms of this Agreement thereafter.

25. **Other Provisions:** _____

WHEREFORE, the parties hereto have executed this Agreement on the day and in the year first above written.

CITY OF ROCKLIN

By: _____
 Ricky A. Horst, City Manager

PRINCIPAL

KB HOME SACRAMENTO, INC.

(Name of Principal)

By: _____
(Signature)

(Type Name)

(Type Title)

APPROVED AS TO FORM:

DeeAnne Gillick
Interim City Attorney

ATTEST:

Barbara Ivanusich
City Clerk

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Placer)

On this _____ day of _____, 20____, before me
_____, notary public,

(Notary Name and Title)

personally appeared _____

who

proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing paragraph is true and correct.

My Commission Expires: _____

Notary Public in and for said county and state

(SEAL)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Placer)

On this _____ day of _____, 20____, before me
_____, notary public,

(Notary Name and Title)

personally appeared _____

who

proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under penalty of perjury under the laws of the State of California that the foregoing paragraph is true and correct.

My Commission Expires: _____

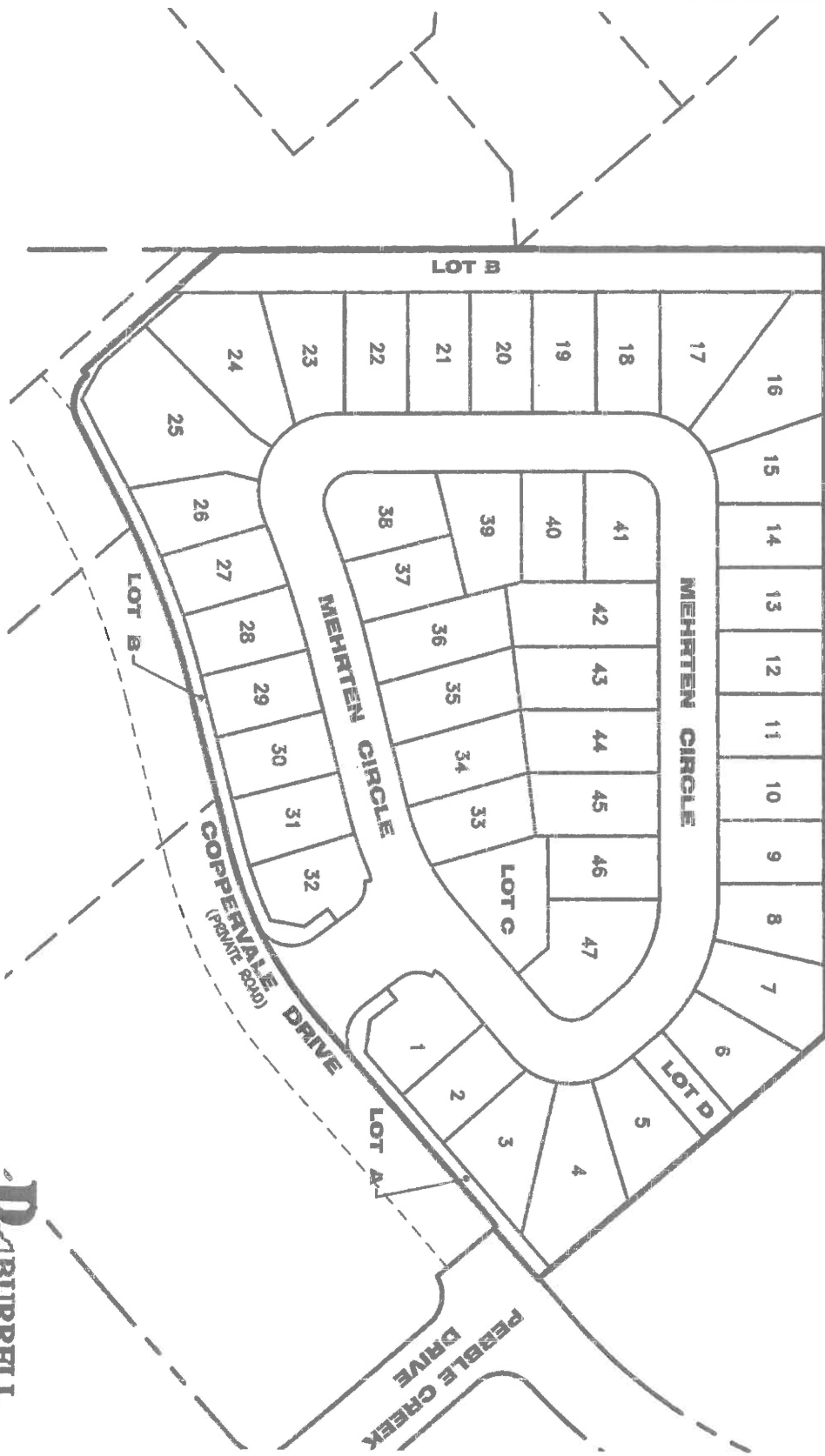
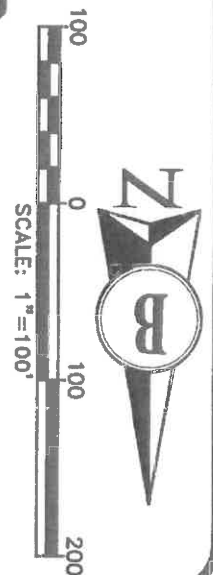
Notary Public in and for said county and state

(SEAL)

EXHIBIT A

FINAL MAP

EXHIBIT "A" FINAL MAP SUNSET AT STANFORD RANCH



PAGE 1 OF EXHIBIT "A" OF
LANDSCAPE IMPROVEMENT AGREEMENT
RESOLUTION NO. 2016--

B BURRELL
CONSULTING
GROUP, INC.
1001 Enterprise Way, Suite 100
Roseville, CA 95678 (916) 783-8898



City Council Report

Subject: Resolution of the City Council of the City of Rocklin Amending the City of Rocklin Management Salary Schedule for Fiscal Year 2016-2017

Submitted by: Michael Green, Human Resources Manager

Date: November 8, 2016

Department: Administrative Services

Staff Recommendation:

Approve the resolution of the City Council of the City of Rocklin amending the City of Rocklin Management Salary Schedule for fiscal year 2016-2017.

BACKGROUND:

On October 28, 2016, the City Manager appointed an Interim Police Chief. This resolution will add the Interim Police Chief classification and salary to the City of Rocklin Management Salary Schedule. The Interim Police Chief will plan, direct, manage and oversee the activities and operations of the Police Department, including patrol and investigations, public safety communications, public services and administration; coordinate assigned activities with other City departments and outside agencies; provide expert professional assistance to the City Council, City Manager and others; and perform related work as required.

RECOMMENDATION:

Staff recommends approving the resolution of the City Council of the City of Rocklin amending the City of Rocklin Management Salary Schedule for fiscal year 2016-2017.

Fiscal Impact:

This action will result in no fiscal impact to the total compensation budget.

Ricky A. Horst, City Manager
Reviewed for Content

DeeAnne Gillick, Interim City Attorney
Reviewed for Legal Sufficiency

RESOLUTION NO. 2016-XXX

RESOLUTION OF THE CITY COUNCIL
OF THE CITY OF ROCKLIN
AMENDING THE CITY OF ROCKLIN
MANAGEMENT SALARY SCHEDULE
FOR FISCAL YEAR 2016-2017

The City Council of the City of Rocklin does resolve as follows:

Section 1. Exhibit A of Resolution 2016-226, Management Salary Schedule, is hereby amended to add the Interim Police Chief classification at an annual salary of \$176,354, effective, October 28, 2016.

PASSED AND ADOPTED this 8th day of November, 2016, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

ABSTAIN: Councilmembers:

Gregory A. Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk

CITY OF ROCKLIN
MANAGEMENT SALARY SCHEDULE
(Annual Salary)
Effective October 28, 2016

<u>Classification</u>	<u>Range</u>	<u>Step 1</u>	<u>Step 2</u>	<u>Step 3</u>	<u>Step 4</u>	<u>Step 5</u>	<u>Step 6</u>
Marketing and Development Specialist	1	60,114	63,120	66,276	69,590	73,070	76,724
Manager of Housing & Code Compliance Recreation, Arts, & Event Tourism Business Development Manager Special Events Manager	3	63,157	66,315	69,631	73,113	76,769	80,607
Associate Management Analyst	5	66,354	69,672	73,156	76,814	80,655	84,688
Recreation, Arts, & Event Tourism Program Manager	7	69,713	73,199	76,859	80,702	84,737	88,974
Financial Analyst Public Services Manager Recreation, Arts, and Event Tourism Business Program Manager	12	78,874	82,818	86,959	91,307	95,872	100,666
Application Services Administrator Network Services Administrator	14	82,867	87,010	91,361	95,929	100,725	105,761
Management Analyst Manager of Police Records and Communications	15	84,939	89,186	93,645	98,327	103,243	108,405
Principal Management Analyst	17	89,239	93,701	98,386	103,305	108,470	113,894
Finance Officer Manager of Building Services Principal Systems Engineer Public Finance and Revenue Manager Senior Engineer	18	91,470	96,044	100,846	105,888	111,182	116,741
City Engineer Manager of Planning Services	19	93,757	98,445	103,367	108,535	113,962	119,660
City Clerk Director of City Commerce and Communications Director of the Office of Economic Development	20	96,101	100,906	105,951	111,249	116,811	122,652

<u>Classification</u>	<u>Range</u>	<u>Step 1</u>	<u>Step 2</u>	<u>Step 3</u>	<u>Step 4</u>	<u>Step 5</u>	<u>Step 6</u>
Deputy City Attorney Environmental Services Operations Manager Information Technology Manager	22	100,967	106,015	111,316	116,882	122,726	128,862
Chief Building Official Deputy Director of Administrative Services Director of the Office of Long-Range Planning Human Resources Manager	23	103,491	108,666	114,099	119,804	125,794	132,084
Deputy Director, Public Services	24	106,078	111,382	116,951	122,799	128,939	135,386
Director of Administrative Services Director of Recreation, Arts, and Event Tourism	30	123,017	129,168	135,626	142,407	149,527	157,003
Deputy Fire Chief	31	129,244	135,706	142,491	149,616	157,097	164,952
Police Captain	32	131,598	138,178	145,087	152,341	159,958	167,956
Director of Economic and Community Development	33	132,475	139,099	146,054	153,357	161,025	169,076
Director of Public Services	34	135,787	142,576	149,705	157,190	165,050	173,303
Assistant City Manager/Chief Financial Officer	39	153,632	161,314	169,380	177,849	186,741	196,078
Fire Chief	41	161,410	169,481	177,955	186,853	196,196	206,006
Police Chief	43	169,581	178,060	186,963	196,311	206,127	216,433

	<u>Salary</u>	<u>Resolution No.</u>	<u>Date Adopted</u>
City Manager	242,281	2014-230	10/28/2014
City Attorney	(TBD)	2016-XXX	(TBD)
Interim City Attorney	141,582	2016-192	06/14/2016
Deputy City Attorney	128,862	Contract	06/02/2014
Interim Police Chief	176,354	2016-XXX	11/08/2016



City Council Report

Subject: Adoption of update to the Placer County Local Hazard Mitigation Plan

Submitted by: Rick Forstall, Director

Date: November 8, 2016

David Mohlenbrok, Environmental Services Manager (Presenter)

Department: Public Services

Reso. No. 2016-

Staff Recommendation: Staff recommends approval of the resolution adopting the May 2016 update to the Placer County Hazard Mitigation Plan.

BACKGROUND

Congress adopted the Disaster Mitigation Act 2000 (DMA-2000) on October 31, 2000 as PL106-390. Its emphasis is on creating an ongoing, community-wide public/government planning process ultimately resulting in local governing boards, including Rocklin City Council, formally adopting a Local Hazard Mitigation Plan (LHMP).

The LHMP delineates hazards and assesses risks of a variety of natural hazards that could potentially impact Placer County. Additionally, the LHMP includes a review of each jurisdiction's existing hazard reduction capabilities and recommends actions/projects to further reduce future vulnerability. Projects, measures, and policies contained in a LHMP are designed and recommended based on the nexus between hazard and values at risk. Timely and efficient plan implementation will reduce risk in all Placer County communities.

As specified by DMA-2000, local governments are required to update their LHMP every five years in order to remain eligible for future federal disaster mitigation funding. For the 2016 LHMP update project, Placer County Office of Emergency Services (PCOES) received a FEMA grant in May 2014 and hired Foster Morrison Consulting in early April of 2015. Following a similar process as required by FEMA for the 2005 and 2010 LHMPs, the process began with reconvening of the Hazard Mitigation Planning Committee (HMPC) Working Group followed by conducting a publicly noticed kick-off meeting in late April 2015. Seven other working meetings, all publicly noticed, were held in subsequent months to conduct the LHMP planning and updating process. The HMPC Working Group consisted of representatives from select County Departments, the Cities of Colfax, Auburn, Lincoln, and Rocklin, the Town of Loomis, and participating Fire Districts and Special Districts with the County.

FINDINGS, CONCLUSIONS & RECOMMENDATIONS

Findings:

The 2016 Placer County LHMP update meets the requirements of DMA-2000. Key LHMP highlights include:

- Development of the LHMP update in accordance with the National Flood Insurance Program (NFIP) Community Rating System (CRS) Activity 510 requirements to enhance the floodplain management programs of the County and Cities.
- Participation of 22 jurisdictions including the County, five incorporated communities and 16 special districts.
- An updated hazard risk assessment for 18 hazards, which includes flood, wildfire, drought, earthquake, dam failures, seiche, severe storms, and agricultural hazards as priority hazards of concern to the County.
- An assessment of the impact of climate change on identified hazards of concern.
- Development of an updated mitigation strategy for the County and all participating jurisdictions including new plan goals and objectives and the identification of 135 mitigation actions to address identified hazards.
- The update was presented to and recommended for approval by the Planning Commission (3-0 vote) at their October 18, 2016 meeting.

Conclusions:

- The California Governor's Office of Emergency Services (Cal OES) and FEMA have reviewed and approved the 2016 Placer County LHMP.
- Failure to adopt the update may cause problems in securing grant funding for future mitigation efforts.
- Adoption must be completed by June 13, 2017.

Recommendations:

- Staff recommends approval of the resolution adopting the May 2016 update to the Placer County Hazard Mitigation Plan.

Fiscal Impact:

- There is no current or expected future fiscal impact to the City General Fund as a result of this action.
- Approval of this action positions the County and participating jurisdictions to compete more effectively for pre- and post-disaster mitigation funding.
- Adoption of the Placer County LHMP puts the City in a position to apply for future grants.



Ricky A. Horst, City Manager
Reviewed for Content



DeeAnne Gillick, Interim City Attorney
Reviewed for Legal Sufficiency



RESOLUTION NO. 2016-

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROCKLIN
 APPROVING THE PLACER COUNTY 2016 LOCAL MULTI-HAZARD MITIGATION PLAN (LHMP)
 UPDATE AND APPROVING AN AMENDMENT OF THE CITY OF ROCKLIN GENERAL PLAN
 COMMUNITY SAFETY ELEMENT TO INCORPORATE BY REFERENCE THE PLACER COUNTY 2016
 LOCAL MULTI-HAZARD MITIGATION PLAN (LHMP) UPDATE

(GENERAL PLAN UPDATE: PLACER COUNTY 2016 LOCAL MULTI-HAZARD MITIGATION PLAN
 (LHMP) UPDATE/GPA2016-0005)

WHEREAS, the City of Rocklin recognizes the threat that natural hazards pose to people and property within our community; and

WHEREAS, undertaking hazard mitigation actions will reduce the potential for harm to people and property from future hazard occurrences; and

WHEREAS, the U.S. Congress passed the Disaster Mitigation Act of 2000 ("Disaster Mitigation Act") emphasizing the need for pre-disaster mitigation of potential hazards; and

WHEREAS, the Disaster Mitigation Act made available Hazard Mitigation Grants to state and local governments; and

WHEREAS, an adopted Local Hazard Mitigation Plan is required as a condition of future funding for mitigation projects under multiple FEMA pre- and post-disaster mitigation grant programs; and

WHEREAS, the City of Rocklin fully participated in the FEMA-prescribed mitigation planning process to prepare this local hazard mitigation plan; and

WHEREAS, the California Office of Emergency Services and Federal Emergency Management Agency, Region IX officials have reviewed the Placer County Local Hazard Mitigation Plan and approved it contingent upon this official adoption of the participating governing bodies; and

WHEREAS, the City of Rocklin desires to comply with the requirements of the Disaster Mitigation Act and to augment its emergency planning efforts formally adopting the Placer County Local Hazard Mitigation Plan; and

WHEREAS, adoption by the governing body for the City of Rocklin demonstrates the jurisdiction's commitment to fulfilling the mitigation goals and objectives outlined in the Local Hazard Mitigation Plan; and

WHEREAS, adoption of this resolution validates the plan and authorizes responsible agencies to carry out their responsibilities under the plan.

NOW THEREFORE BE IT RESOLVED, that the City of Rocklin adopts the Placer County Local Hazard Mitigation Plan as an official plan in the form attached hereto as Exhibit A and by this reference incorporated herein; and

BE IT FURTHER RESOLVED, that the City of Rocklin adopts the Placer County Local Hazard Mitigation Plan by reference into the safety element of their general plan in accordance with the requirements of AB2140; and

BE IT FURTHER RESOLVED, that the City Manager is authorized to take such other actions as may be necessary to implement the purpose of this Resolution.

BE IT FURTHER RESOLVED, that the City of Rocklin will submit this adoption resolution to the California Office of Emergency Services and FEMA Region IX officials to enable the plan's final approval in accordance with the requirements of the Disaster Mitigation Act of 2000 and to establish conformance with the requirements of AB2140.

PASSED AND ADOPTED this 8th day of November, 2016, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

ABSTAIN: Councilmembers:

Greg Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk

EXHIBIT A

PLACER COUNTY LOCAL MITIGATION PLAN UPDATE

MARCH 2016

Available at the City Clerk's Office,

Or located at this website link:

<http://www.placer.ca.gov/departments/ceo/emergency/local-hazard-mitigation-plan>

(1463 Pages – Will Take a Few Moments to Download)



City Council Report

Subject: Ordinance Adding Chapter 8.34 to the Municipal Code Prohibiting Marijuana Use on Public Property

Submitted by: DeeAnne Gillick, Interim City Attorney

Date: November 8, 2016

Department: Legislative

Staff Recommendation: It is recommended that the City Council of the City of Rocklin take action to:

- (1) Waive the second reading and approve Ordinance 1058 of the City Council of the City of Rocklin adding Chapter 8.34 to the Rocklin Municipal Code prohibiting Marijuana Use on Public Property; and
 - (2) Approve the Urgency Ordinance of the City Council of the City of Rocklin adding Chapter 8.34 to the Rocklin Municipal Code prohibiting Marijuana Use on Public Property to be effective immediately as an urgency measure.
-

On October 25, 2016 the City Council waived the first reading and introduced an ordinance adding Chapter 8.34 of the Rocklin Municipal Code prohibiting Marijuana on Public Property. It is recommended that the City Council waive the second reading and approve Ordinance 1058.

On October 25, 2016 the City Council considered the urgency ordinance to immediately add Chapter 8.34 to the Rocklin Municipal Code prohibiting Marijuana on Public Property. The City Council did not take action at that time as an urgency ordinance requires a four-fifths vote of the Council and only three councilmembers were present. It is recommended that the City Council approve the Urgency Ordinance of the City Council of the City of Rocklin adding Chapter 8.34 to the Rocklin Municipal Code prohibiting Marijuana Use on Public Property to be effective immediately as an urgency measure.

The proposed ordinances are recommended due to the possible approval of the Control, Regulate, and Tax Adult Use of Marijuana Act ("AUMA") which appears on the November 8, 2016 ballot as Proposition 64. If passed, AUMA will be effective on November 9, 2016 and will legalize the nonmedical use of marijuana and the personal cultivation of up to six marijuana plants. AUMA would create a state regulatory and licensing system for nonmedical marijuana and AUMA would allow local control and regulation in certain areas.

Attachments: October 25, 2016 Staff Report and Proposed Ordinances



City Council Report

Subject: Ordinance Adding Chapter 8.34 to the Municipal Code Prohibiting Marijuana Use on Public Property

Submitted by: DeeAnne Gillick, Interim City Attorney
Barbara Ivanusich, City Clerk

Date: October 25, 2016

Department: Legislative

Ord. No. 1058

Staff Recommendation: It is recommended that the City Council of the City of Rocklin take action to:

- (1) Approve the Urgency Ordinance of the City Council of the City of Rocklin adding Chapter 8.34 to the Rocklin Municipal Code prohibiting Marijuana Use on Public Property to be effective immediately as an urgency measure; and
- (2) Waive the first reading and introduce an Ordinance of the City Council of the City of Rocklin adding Chapter 8.34 to the Rocklin Municipal Code prohibiting Marijuana Use on Public Property.

BACKGROUND:

The Control, Regulate, and Tax Adult Use of Marijuana Act ("AUMA") appears on the November ballot as Proposition 64. If passed, AUMA will legalize the nonmedical use of marijuana and the personal cultivation of up to six marijuana plants. AUMA would create a state regulatory and licensing system for the commercial cultivation, testing, and distribution of nonmedical marijuana and the manufacturing of nonmedical marijuana plants. AUMA would allow local control and regulation in certain areas.

DISCUSSION:

In preparation of the possible passage of AUMA staff has evaluated existing City ordinances and recommends one area for immediate action by the City. The following is a review of the potential local regulations as a result of AUMA.

1. Commercial Nonmedical Marijuana Activity.

Under AUMA, California will have a comprehensive state regulatory system for nonmedical marijuana. All nonmedical marijuana businesses will require a state license. State licenses would be

required from the following state agencies: (1) the Department of Consumer Affairs for the transportation, storage distribution and sale of marijuana; (2) the Department of Food and Agriculture for marijuana cultivation; and (3) the Department of Public Health for marijuana manufacturers and testing laboratories. It is anticipated that if AUMA passes the state regulatory licenses will not be issued until late 2017. The agencies would be required to begin issuing licenses by January 1, 2018.

AUMA allows for local jurisdictions to adopt local ordinances regulating or completely prohibiting state-licensed marijuana businesses. Nonmedical marijuana businesses would not be legal until the State issues the required state licenses, which is not likely until late 2017. If AUMA becomes law, City staff will evaluate if local regulation or prohibition of marijuana businesses is recommended and bring that matter to the Council for consideration prior to the issuance of any state licenses.

2. Personal Cultivation.

AUMA allows for cities to completely ban personal outdoor cultivation of marijuana. The City already bans outdoor cultivation of marijuana within the City pursuant to section 17.81.030 of the Rocklin Municipal Code. This City ordinance would remain valid after passage of AUMA and would continue to prohibit all outdoor cultivation of marijuana within the City.

AUMA provides that cities may reasonably regulate, but cannot ban, personal indoor cultivation of up to six living marijuana plants within the person's private residence. The City regulates indoor cultivation of marijuana pursuant to Chapter 17.81 of the Rocklin Municipal Code. It appears at this time that Chapter 17.81 regulates indoor cultivation is consistent with the requirements of AUMA and would be valid, local regulations of indoor cultivation. If AUMA becomes law and as it is implemented, City staff will further evaluate Chapter 17.81 and provide recommendations if any minor amendments to Chapter 17.81 are warranted related to regulating indoor cultivation of marijuana.

3. Personal Nonmedical Marijuana Use.

AUMA would make it legal for persons 21 years of age or older to: (1) smoke or ingest marijuana or marijuana products; (2) possess, process, transport, purchase, obtain, or give away to persons 21 years of age or older, without any compensation, 28.5 grams of marijuana, or 8 grams of concentrated marijuana, including as contained in marijuana products; and (3) possess, plant, cultivate, harvest, dry or process up to six living marijuana plants for personal use.

Although persons 21 years of age or older can use and possess nonmedical marijuana under AUMA, there are some limitations. AUMA prohibits the use of marijuana: (1) in any "public place" with limited exceptions; (2) where smoking of tobacco is prohibited, such as in an indoor place of employment; (3) within 1,000 feet of a school, day care center, or youth center while children are present; and (4) while driving, or riding in the passenger seat of, any vehicle used for transportation.

AUMA further provides that cities may prohibit the possession and smoking in buildings owned, leased, or occupied by the city, and that employers, including cities, may maintain a drug and alcohol

free workplace by prohibiting the use, consumption, possession, transfer, transportation, sale, display or growth of marijuana in the workplace.

AUMA does not define a “public place” for which marijuana use would be prohibited. Staff recommends the adoption of an ordinance prohibiting the use of marijuana in buildings and property owned, leased, or occupied by the City, and specifying that a public place includes City streets, sidewalks, buildings, parks, recreational areas, and sports arenas.

FINDINGS, ALTERNATIVES & RECOMMENDATIONS:

Findings:

- An urgency ordinance may be adopted by a four-fifths vote of the Council for the immediate preservation of the public peace, health or safety.
- This ordinance is an urgency ordinance, necessary for the public peace, health and safety, to become effective immediately upon its adoption. The facts constituting the urgency are the proposed added statute language regarding “public place” is vague and that the use, ingestion or smoking of marijuana on public property could have a significantly adverse effect on people lawfully using the City of Rocklin’s public property. While some people will seek to use marijuana if Proposition 64 passes, many will not and will not wish to be exposed to the effects of marijuana, risk contact exposure, allergic reactions, or for many other personal reasons. It is in the best interests of the residents and businesses of the City of Rocklin to prohibit the use, ingestion and smoking of marijuana on property owned or controlled by the City of Rocklin.
- The potential adverse secondary effects of people being exposed to marijuana against their own free will on property owned or controlled by the City of Rocklin presents a danger to the immediate preservation of the public peace, health, and safety of the community. Currently, the City has no rules or regulations governing the use, ingestion or smoking of marijuana on publicly owned or controlled property.

Alternatives:

- Council may take no action.
- Council may adopt both ordinances or either ordinance.
- The ordinance may be enacted to be effective immediately necessary for public peace, health and safety, or the ordinance may be enacted after its second reading to be effective thirty days from approval. Both ordinances with the differing effective dates may be adopted by Council.

Fiscal Impact:

- The cost of amending an ordinance is approximately \$150 for the publication costs.

Recommendations:

- Approval of the ordinance prohibiting marijuana use on public property, including City streets, sidewalks, Public Property, Recreational Areas and Sports Arenas.

-
- The simultaneous approval of the urgency ordinance and a regular ordinance, which is effective thirty days following the second reading, in the event the urgency ordinance is challenged as not necessary for the immediate preservation of the public peace, health or safety.



Ricky A. Horst, City Manager
Reviewed for Content



DeeAnne Gillick, Interim City Attorney
Reviewed for Legal Sufficiency



ORDINANCE NO. 1058

ORDINANCE OF THE CITY COUNCIL OF THE CITY OF ROCKLIN
 ADDING CHAPTER 8.34 TO THE ROCKLIN MUNICIPAL CODE
 PROHIBITING MARIJUANA USE ON PUBLIC PROPERTY

The City Council of the City of Rocklin does ordain as follows:

Section 1. Findings. The City Council of the City of Rocklin finds and determines that:

A. Proposition 64 appears on the November 2016 General Election ballot. This proposition addresses many topics related to the legalization of marijuana for personal consumption and commercial sales. If passed Proposition 64 becomes effective immediately. One provision of the Proposition adds Section 11362.3 to the Health and Safety Code in part, as follows “(a) Nothing in Section 11362.1 shall be construed to permit any person to: (1) Smoke or ingest marijuana or marijuana products in any public place, except in accordance with Section 26200 of the Business and Professions Code.” “Public place” is not defined in the statute proposed to be added. Section 11362.4 provides it is an infraction to violate Section 11362.3. The City Council for the City of Rocklin desires to control, regulate and prohibit the use of marijuana by smoking or otherwise ingesting or using marijuana on its public property.

B. The proposed added statute language of Proposition 64 regarding “public place” is vague and that the use, ingestion or smoking of marijuana on public property could have a significantly adverse effect on people lawfully using the City of Rocklin’s public property. While some people will seek to use marijuana if Proposition 64 passes, many will not and will not wish to be exposed to the effects of marijuana, risk contact exposure, allergic reactions, or for many other personal reasons. It in the best interests of the residents and businesses of the City of Rocklin to prohibit the use, ingestion and smoking or marijuana on property owned or controlled by the City of Rocklin.

C. The potential adverse secondary effects of people being exposed to marijuana against their own free will on property owned or controlled by the City of Rocklin presents a danger to the immediate preservation of the public peace, health, and safety of the community. Currently, the City has no rules or regulations governing the use, ingestion or smoking of marijuana on publicly owned or controlled property. This ordinance is not intended to grant rights to use, ingest or smoke marijuana in other “public places” or to otherwise contradict the provisions of existing state law or Proposition 64 should it be approved by the voters. This ordinance both complies with applicable state law, as well as imposes reasonable rules and regulations protecting the public health, safety and welfare of Rocklin residents and businesses.

D. This ordinance is hereby found to be categorically exempt from environmental review pursuant to CEQA guidelines Section 15061 (b)(3).

Section 2. Chapter 8.34 – Prohibiting Marijuana Use on Public Property, is hereby added to the Rocklin Municipal Code to read in its entirety as follows:

8.34.010 - Applicability.

A. This chapter adopts regulations associated with publicly owned, leased and rented properties in the City of Rocklin. This chapter shall not apply to private property.

8.34.020 - Findings.

The City Council hereby finds as follows:

A. Smoking marijuana is likely to have the same, similar or worse health consequences as use of other smoking products and it is known that smoking tobacco products is one of the largest single preventable causes of death and disability for persons in the United States. On average, compared to people who have never smoked, smokers suffer more health problems and disability due to their smoking and ultimately lose more than a decade of life.

B. Exposure to secondhand smoke is a leading cause of preventable death, after smoking and alcohol. It has been found by the United States Environmental Protection Agency to be a Class A Carcinogen, known to cause cancer in humans, and one out of three cancer deaths are reportedly caused by smoking. There is no risk-free level of exposure to secondhand smoke.

C. The City is aware of findings associated with tobacco smoke and is aware of studies that suggest or state that smoking of marijuana has many harmful effects and other studies, including the National Institute on Drug Abuse show that marijuana use can be hazardous to memory, brain function, pregnant women, juveniles, those with respiratory diseases, cause higher rates of cancer than tobacco and other harmful effects. Hazards known as a result of tobacco smoke which are likely to carry over to marijuana smoke include:

1. Secondhand smoke causes numerous health problems in infants and children, including more frequent and severe asthma attacks, respiratory infections, ear infections, and sudden infant death syndrome (SIDS).

2. Smoking is one of the largest single preventable causes of death and disability for persons in the United States.

3. Employees subject to prolonged exposure to secondhand smoke in the workplace experience a loss of job productivity and may be forced to take periodic sick leave because of reactions to secondhand smoke. Higher costs to the employer are associated with smoke in the workplace due to increase in absenteeism, accidents, and the cost of medical care, insurance, loss of productivity, and cleaning and maintenance requirements. Smoke-free workplaces are associated with an increase in the success rate of smokers who are attempting to quit.

D. Smoking, including marijuana in public places can be a major cause of fires and damage to merchandise and equipment as well as costly maintenance and repairs to furniture and fixtures.

F. Many people may be very opposed to being exposed to marijuana smoke due to sobriety, job related drug testing and other personal reasons. People frequenting or using Public Property in the City may not wish to be exposed to marijuana smoke and should not be otherwise exposed against their free will.

E. Proposition 64 on the November 2016 ballot includes a provision (Health and Safety Code Section 11362.3) that states that nothing in that law permits a person to smoke or ingest marijuana in a “public place” but no definition of “public place” is provided. The City seeks to make clear that smoking of or ingestion of marijuana on all its City streets, sidewalks, Public Property, Recreation Areas and Sports Arenas is prohibited.

8.34.030 - Purpose.

This chapter is enacted for the purpose of restricting, regulating and preventing the smoking and use of marijuana on property owned, leased or rented by the City of Rocklin or other public entities in the City of Rocklin in order to reduce the hazards and nuisance which marijuana use and smoking causes to those who are involuntarily exposed.

8.34.040 - Definitions.

As used in this chapter, those terms identified in this section shall, unless the context indicates otherwise, be ascribed the meaning contained in this section:

“City” means the City of Rocklin.

“Entity in Control” means any person or entity that is under contract or other agreement to lawfully lease, rent or use Public Property.

“Marijuana” means all parts of the plant *Cannabis sativa* L. as defined in Health and Safety Code Section 11018.

“Public Property” means any property owned, leased, used, rented or controlled by the City of Rocklin, including but not limited to public streets and sidewalks, parks, city facilities, open space, bike and walking trails, and Recreation Areas and Sports Arenas .

“Recreation Area” means any area in the City that is publicly owned or publicly operated for recreational purposes, whether enclosed or unenclosed and open to the general public regardless of any fee or age requirements. “Recreation Area” includes parks, picnic areas, playgrounds, sports fields, open space, walking or hiking paths or trails, bike trails, outdoor pavilions, outdoor art spaces, outdoor space for the public to congregate, benches and similar shelters for bus stops or outdoor seating areas and similar areas designed and/or used for outdoor recreational activities.

“Smoking” means inhaling, exhaling, burning or carrying any lighted combustible substance containing Marijuana in any manner or in any form and use of electronic devices with electrical ignition or vaporization (e-cigarettes/cigars or similar devices) with Marijuana or its by products in the device.

“Sports Arena” means public owned or operated sports pavilions, sports facilities, gymnasiums, health spas, boxing arenas, swimming pools, roller rinks, and other similar places where members of the general public assemble either to engage in physical exercise, participate in athletic competition or witness sports events.

“Use” means any method of ingestion of Marijuana including not limited to edible products, liquids, lotions or other means to use Marijuana by a person.

8.34.050 - Prohibition of Smoking or Use of Marijuana

Smoking or the Use of Marijuana in any form is prohibited in the following places:

- A. All Public Property, Recreation Areas and Sports Arenas.
- B. Any Special Event or activity occurring on Public Property, Recreation Areas and Sports Arenas shall be conditioned consistent with this Chapter.

8.34.60 - Construing with State Law

A. Proposition 64 on the November 2016 ballot includes a provision (Health and Safety Code Section 11362.3) that states that nothing in that law permits a person to smoke or ingest Marijuana in a “public place”, but no definition of “public place” is provided. Section 11362.4 provides it is an infraction to violate Section 11362.3. The City seeks to make clear that smoking of or ingestion of Marijuana on all its City streets, sidewalks, Public Property, Recreation Areas and Sports Arenas is prohibited.

B. Nothing in this Chapter shall be construed to permit smoking or ingesting of Marijuana in any other “public place” not addressed by this ordinance. This ordinance is designed and intended to specifically address Public Property, Recreation Areas and Sports Arenas as defined herein.

8.34.060 - Enforcement

A. Notice of these regulations shall be given to all applicants for a Special Event or other permit to use Public Property, Recreation Areas and Sports Arenas.

B. In addition to the Police Department, the following positions are authorized to enforce the provisions of this chapter:

- 1. The Fire Marshal or designee of the fire department.

2. The City's Code Enforcement Officers.

8.34.070 - Violations and penalties.

A. It is unlawful for any person who owns, manages, operates or otherwise controls the use of any Public Property, Recreation Areas and Sports Arenas subject to regulation under this chapter to fail to comply with any of its provisions.

B. It is unlawful for any person to smoke or use Marijuana in any area where Smoking or Use is prohibited by the provisions of this chapter.

C. Any person who violates any provision of this chapter shall be guilty of an infraction, punishable by:

1. A fine not exceeding one hundred dollars for a first violation;

2. A fine not exceeding two hundred dollars for a second violation of this chapter within one year;

3. A fine not exceeding five hundred dollars for each additional violation of this chapter within one year.

D. Violation of the provisions of this chapter is declared to be a public nuisance which may be abated by appropriate civil action.

E. The remedies provided by this section are cumulative, and are in addition to any other remedy existing at law or in equity.

8.34.080 - Other applicable laws.

A. This chapter shall not be interpreted or construed to permit smoking or use of marijuana or other substances where it is otherwise restricted by other applicable laws or permit conditions, including but not limited to the fire code, OSHA regulations, the California Code of Regulations.

8.34.090 - Severability

A. It is declared to be the intention of the City Council that the sections, subsections, paragraphs, sentences, clauses and phrases of the ordinance codified herein and the code hereby adopted are severable and if any phrase, clause, sentence, paragraph, section or subsection of said ordinance and the code hereby adopted are declared unconstitutional or otherwise invalid by the valid judgment or decree of a court of competent jurisdiction, such unconstitutionality or invalidity shall not affect any of the remaining phrases, clauses, sentences, paragraphs, sections and subsections of this chapter or the code hereby adopted.

Section 3. Within fifteen days of passage of this ordinance, the City Clerk shall cause the full text of the ordinance, with the names of those City Councilmembers voting for and against the ordinance, to be published in the Placer Herald. In lieu of publishing the full text of the ordinance, the City Clerk, if so directed by the City Attorney and within fifteen days, shall cause a summary of the ordinance, prepared by the City Attorney and with the names of the City Councilmembers voting for and against the ordinance, to be published in the Placer Herald, and shall post in the office of the City Clerk a certified copy of the City Councilmembers voting for and against the ordinance. The publication of a summary of the ordinance in lieu of the full text of the ordinance is authorized only where the requirements of Government Code section 36933(c)(1) are met.

INTRODUCED at a regular meeting of the City Council of the City of Rocklin held on October 25, 2016, by the following vote:

AYES:	Councilmembers:	Magnuson, Broadway, Janda
NOES:	Councilmembers:	None
ABSENT:	Councilmembers:	Butler, Yuill
ABSTAIN:	Councilmembers:	None

PASSED AND ADOPTED at a regular meeting of the City Council of the City of Rocklin held on November 8, 2016, by the following roll call vote:

AYES:	Councilmembers:
NOES:	Councilmembers:
ABSENT:	Councilmembers:
ABSTAIN:	Councilmembers:

Gregory A. Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk

First Reading: 10/25/16
 Second Reading: 11/8/16
 Effective Date: 12/8/16

ORDINANCE NO. _____



ORDINANCE OF THE CITY COUNCIL OF THE CITY OF ROCKLIN
 ADDING CHAPTER 8.34 TO THE ROCKLIN MUNICIPAL CODE
 PROHIBITING MARIJUANA USE ON PUBLIC PROPERTY
 TO BE EFFECTIVE IMMEDIATELY AS AN URGENCY MEASURE

The City Council of the City of Rocklin does ordain as follows:

Section 1. Findings. The City Council of the City of Rocklin finds and determines that:

- A. Proposition 64 appears on the November 2016 General Election ballot. This proposition addresses many topics related to the legalization of marijuana for personal consumption and commercial sales. If passed Proposition 64 becomes effective immediately. One provision of the Proposition adds Section 11362.3 to the Health and Safety Code in part, as follows “(a) Nothing in Section 11362.1 shall be construed to permit any person to: (1) Smoke or ingest marijuana or marijuana products in any public place, except in accordance with Section 26200 of the Business and Professions Code.” “Public place” is not defined in the statute proposed to be added. Section 11362.4 provides it is an infraction to violate Section 11362.3. The City Council for the City of Rocklin desires to control, regulate and prohibit the use of marijuana by smoking or otherwise ingesting or using marijuana on its public property.
- B. This ordinance is adopted as an urgency ordinance, necessary for the public peace, health and safety, to become effective immediately upon its adoption. The facts constituting the urgency are the proposed added statute language regarding “public place” is vague and that the use, ingestion or smoking of marijuana on public property could have a significantly adverse effect on people lawfully using the City of Rocklin’s public property. While some people will seek to use marijuana if Proposition 64 passes, many will not and will not wish to be exposed to the effects of marijuana, risk contact exposure, allergic reactions, or for many other personal reasons. It in the best interests of the residents and businesses of the City of Rocklin to prohibit the use, ingestion and smoking or marijuana on property owned or controlled by the City of Rocklin.
- C. The potential adverse secondary effects of people being exposed to marijuana against their own free will on property owned or controlled by the City of Rocklin presents a danger to the immediate preservation of the public peace, health, and safety of the community. Currently, the City has no rules or regulations governing the use, ingestion or smoking of marijuana on publicly owned or controlled property. This Urgency Ordinance is not intended to grant rights to use, ingest or smoke marijuana in other “public places” or to otherwise contradict the provisions of existing state law or Proposition 64 should it be approved by the voters. This ordinance both complies with applicable state law, as well as imposes reasonable rules and regulations protecting the public health, safety and welfare of Rocklin residents and businesses.

D. By making this ordinance effective immediately, no person shall use, ingest or smoke marijuana as provided in this Urgency Ordinance. This ordinance is hereby declared to be an urgency measure and shall take effect immediately.

E. This ordinance is hereby found to be categorically exempt from environmental review pursuant to CEQA guidelines Section 15061 (b)(3).

Section 2. Chapter 8.34 – Prohibiting Marijuana Use on Public Property, is hereby added to the Rocklin Municipal Code to read in its entirety as follows:

8.34.010 - Applicability.

A. This chapter adopts regulations associated with publicly owned, leased and rented properties in the City of Rocklin. This chapter shall not apply to private property.

8.34.020 - Findings.

The City Council hereby finds as follows:

A. Smoking marijuana is likely to have the same, similar or worse health consequences as use of other smoking products and it is known that smoking tobacco products is one of the largest single preventable causes of death and disability for persons in the United States. On average, compared to people who have never smoked, smokers suffer more health problems and disability due to their smoking and ultimately lose more than a decade of life.

B. Exposure to secondhand smoke is a leading cause of preventable death, after smoking and alcohol. It has been found by the United States Environmental Protection Agency to be a Class A Carcinogen, known to cause cancer in humans, and one out of three cancer deaths are reportedly caused by smoking. There is no risk-free level of exposure to secondhand smoke.

C. The City is aware of findings associated with tobacco smoke and is aware of studies that suggest or state that smoking of marijuana has many harmful effects and other studies, including the National Institute on Drug Abuse show that marijuana use can be hazardous to memory, brain function, pregnant women, juveniles, those with respiratory diseases, cause higher rates of cancer than tobacco and other harmful effects. Hazards known as a result of tobacco smoke which are likely to carry over to marijuana smoke include:

1. Secondhand smoke causes numerous health problems in infants and children, including more frequent and severe asthma attacks, respiratory infections, ear infections, and sudden infant death syndrome (SIDS).

2. Smoking is one of the largest single preventable causes of death and disability for persons in the United States.

3. Employees subject to prolonged exposure to secondhand smoke in the workplace experience a loss of job productivity and may be forced to take periodic sick leave because of reactions to secondhand smoke. Higher costs to the employer are associated with smoke in the workplace due to increase in absenteeism, accidents, and the cost of medical care, insurance, loss of productivity, and cleaning and maintenance requirements. Smoke-free workplaces are associated with an increase in the success rate of smokers who are attempting to quit.

D. Smoking, including marijuana in public places can be a major cause of fires and damage to merchandise and equipment as well as costly maintenance and repairs to furniture and fixtures.

F. Many people may be very opposed to being exposed to marijuana smoke due to sobriety, job related drug testing and other personal reasons. People frequenting or using Public Property in the City may not wish to be exposed to marijuana smoke and should not be otherwise exposed against their free will.

E. Proposition 64 on the November 2016 ballot includes a provision (Health and Safety Code Section 11362.3) that states that nothing in that law permits a person to smoke or ingest marijuana in a “public place” but no definition of “public place” is provided. The City seeks to make clear that smoking of or ingestion of marijuana on all its City streets, sidewalks, Public Property, Recreation Areas and Sports Arenas is prohibited.

8.34.030 - Purpose.

This chapter is enacted for the purpose of restricting, regulating and preventing the smoking and use of marijuana on property owned, leased or rented by the City of Rocklin or other public entities in the City of Rocklin in order to reduce the hazards and nuisance which marijuana use and smoking causes to those who are involuntarily exposed.

8.34.040 - Definitions.

As used in this chapter, those terms identified in this section shall, unless the context indicates otherwise, be ascribed the meaning contained in this section:

“City” means the City of Rocklin.

“Entity in Control” means any person or entity that is under contract or other agreement to lawfully lease, rent or use Public Property.

“Marijuana” means all parts of the plant Cannabis sativa L. as defined in Health and Safety Code Section 11018.

“Public Property” means any property owned, leased, used, rented or controlled by the City of Rocklin, including but not limited to public streets and sidewalks, parks, city facilities, open space, bike and walking trails, and Recreation Areas and Sports Arenas .

“Recreation Area” means any area in the City that is publicly owned or publicly operated for recreational purposes, whether enclosed or unenclosed and open to the general public regardless of any fee or age requirements. “Recreation Area” includes parks, picnic areas, playgrounds, sports fields, open space, walking or hiking paths or trails, bike trails, outdoor pavilions, outdoor art spaces, outdoor space for the public to congregate, benches and similar shelters for bus stops or outdoor seating areas and similar areas designed and/or used for outdoor recreational activities.

“Smoking” means inhaling, exhaling, burning or carrying any lighted combustible substance containing Marijuana in any manner or in any form and use of electronic devices with electrical ignition or vaporization (e-cigarettes/cigars or similar devices) with Marijuana or its by products in the device.

“Sports Arena” means public owned or operated sports pavilions, sports facilities, gymnasiums, health spas, boxing arenas, swimming pools, roller rinks, and other similar places where members of the general public assemble either to engage in physical exercise, participate in athletic competition or witness sports events.

“Use” means any method of ingestion of Marijuana including not limited to edible products, liquids, lotions or other means to use Marijuana by a person.

8.34.050 - Prohibition of Smoking or Use of Marijuana

Smoking or the Use of Marijuana in any form is prohibited in the following places:

- A. All Public Property, Recreation Areas and Sports Arenas.
- B. Any Special Event or activity occurring on Public Property, Recreation Areas and Sports Arenas shall be conditioned consistent with this Chapter.

8.34.60 - Construing with State Law

A. Proposition 64 on the November 2016 ballot includes a provision (Health and Safety Code Section 11362.3) that states that nothing in that law permits a person to smoke or ingest Marijuana in a “public place”, but no definition of “public place” is provided. Section 11362.4 provides it is an infraction to violate Section 11362.3. The City seeks to make clear that smoking of or ingestion of Marijuana on all its City streets, sidewalks, Public Property, Recreation Areas and Sports Arenas is prohibited.

B. Nothing in this Chapter shall be construed to permit smoking or ingesting of Marijuana in any other “public place” not addressed by this ordinance. This ordinance is designed and intended to specifically address Public Property, Recreation Areas and Sports Arenas as defined herein.

8.34.060 - Enforcement

A. Notice of these regulations shall be given to all applicants for a Special Event or other permit to use Public Property, Recreation Areas and Sports Arenas.

B. In addition to the Police Department, the following positions are authorized to enforce the provisions of this chapter:

1. The Fire Marshal or designee of the fire department.
2. The City's Code Enforcement Officers.

8.34.070 - Violations and penalties.

A. It is unlawful for any person who owns, manages, operates or otherwise controls the use of any Public Property, Recreation Areas and Sports Arenas subject to regulation under this chapter to fail to comply with any of its provisions.

B. It is unlawful for any person to smoke or use Marijuana in any area where Smoking or Use is prohibited by the provisions of this chapter.

C. Any person who violates any provision of this chapter shall be guilty of an infraction, punishable by:

1. A fine not exceeding one hundred dollars for a first violation;
2. A fine not exceeding two hundred dollars for a second violation of this chapter within one year;
3. A fine not exceeding five hundred dollars for each additional violation of this chapter within one year.

D. Violation of the provisions of this chapter is declared to be a public nuisance which may be abated by appropriate civil action.

E. The remedies provided by this section are cumulative, and are in addition to any other remedy existing at law or in equity.

8.34.080 - Other applicable laws.

A. This chapter shall not be interpreted or construed to permit smoking or use of marijuana or other substances where it is otherwise restricted by other applicable laws or permit conditions, including but not limited to the fire code, OSHA regulations, the California Code of Regulations.

8.34.090 - Severability

A. It is declared to be the intention of the City Council that the sections, subsections, paragraphs, sentences, clauses and phrases of the ordinance codified herein and the code hereby adopted are severable and if any phrase, clause, sentence, paragraph, section or subsection of said ordinance and the code hereby adopted are declared unconstitutional or otherwise invalid by the valid judgment or decree of a court of competent jurisdiction, such unconstitutionality or invalidity shall not affect any of the remaining phrases, clauses, sentences, paragraphs, sections and subsections of this chapter or the code hereby adopted.

Section 3. Within fifteen days of passage of this ordinance, the City Clerk shall cause the full text of the ordinance, with the names of those City Councilmembers voting for and against the ordinance, to be published in the Placer Herald. In lieu of publishing the full text of the ordinance, the City Clerk, if so directed by the City Attorney and within fifteen days, shall cause a summary of the ordinance, prepared by the City Attorney and with the names of the City Councilmembers voting for and against the ordinance, to be published in the Placer Herald, and shall post in the office of the City Clerk a certified copy of the City Councilmembers voting for and against the ordinance. The publication of a summary of the ordinance in lieu of the full text of the ordinance is authorized only where the requirements of Government Code section 36933(c)(1) are met.

PASSED AND ADOPTED as an Urgency Ordinance at a regular meeting of the City Council of the City of Rocklin held on November 8, 2016, by the following vote:

AYES: Councilmembers:

NOES: Councilmembers:

ABSENT: Councilmembers:

ABSTAIN: Councilmembers:

Gregory A. Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk



City Council Report

Subject: Resolution of the City Council of the City of Rocklin Accepting a Resolution Accepting a Notice of Exemption for the Rocklin Entrance Landscaping (Pacific Street) Project.

Resolution of the City Council of the City of Rocklin Approving and Authorizing the City Manager to Award the Bid for the Rocklin Entrance Landscaping (Pacific Street) Project.

Submitted by: Rick Forstall, Director

Date: November 8, 2016.

David Mohlenbrok, Environmental Services Manager - Presenter

Department: Public Services

Staff Recommendation: It is recommended that the City Council of the City of Rocklin approve the following:

- Resolution of the City Council of the City of Rocklin Accepting a Resolution Accepting a Notice of Exemption for the Rocklin Entrance Landscaping (Pacific Street) Project.
 - Resolution of the City Council of the City of Rocklin Approving and Authorizing the City Manager to Award the Bid for the Rocklin Entrance Landscaping (Pacific Street) Project.
-

BACKGROUND:

On June 28, 2016, the City Council approved the FY 2016-2017 budget along with Resolution No. 2016-167 which approved the 2016-2020 Capital Investment Plan. Included in the plan was the "Landscape Southern entry into Rocklin/Pacific Street," which will landscape the roadway (Pacific Street) from the Roseville City limit to the intersection at Pacific Street and Sunset Boulevard. This project speaks to Strategic Plan Objective 1.12 - Create a Special Events destination to help revitalize the downtown area. This project will enhance the landscaping along the southern entry point into the City and provide a welcoming atmosphere as visitors drive into the City and Quarry District destinations.

FINDINGS, CONCLUSIONS & RECOMMENDATIONS:

Findings:

- The Rocklin Entrance Landscaping (Pacific Street) was advertised on September 15th and September 22nd with the bid opening on October 11, 2016. Four bids were received as listed below. Aerco Pacific, Inc. came in with the lowest responsive bid of \$81,663.00.

- On October 11, 2016, four (4) bids were received as follows:

Bidder's Name	Bid Amount
Aerco Pacific, Inc.	\$ 81,663.00
Landology, Inc.	\$ 85,651.00
California Landscape, Inc.	\$107,513.00
Dominguez Landscape Services, Inc.	\$132,908.18

- Staff has reviewed all the bids for sufficiency and is recommending that Council approve and award the bid to Aerco Pacific, Inc.
- The resolution establishes the City Manager's change order authority at 15%.
- The bid amount of \$81,663.00 plus a contingency of \$12,250 brings the project cost to an amount not to exceed \$93,913.00.
- The City of Rocklin's Environmental Coordinator has reviewed the Rocklin Entrance Landscaping (Pacific Street) Project and determined that it is exempt from review under the California Environmental Quality Act (CEQA) pursuant to California Code of Regulations Section 15301, 15304 and has prepared a Notice of Exemption.
- Upon approval construction will commence in November and take approximately 45 calendar days.

Conclusion & Recommendation:

- Staff recommends that the City Council award the bid to the lowest responsible bidder, Aerco Pacific, Inc. plus a contingency in the amount of \$12,250.00 for a total amount not to exceed \$93,913.00.
- City shall begin work upon receipt of all necessary contract documents.

Fiscal Impact:

- This Project is included in the FY 16-17 Budget and is funded under the SB325 (210) fund.



Ricky A. Horst, City Manager
Reviewed for Content



DeeAnne Gillick, Interim City Attorney
Reviewed for Legal Sufficiency

Attachments: Exhibit A – Bid Summary

Exhibit A

CITY OF ROCKLIN



BID SUMMARY

PROJECT: Rocklin Entrance Landscaping (Pacific Street)

DATE: October 10 , 2016

TIME: 10:00am

Name/Address/Phone of Bidder	Bid Amount	Alt. Bid Amt	Addendum(S) Acknowledged	Bid Bond / Cashier Check
1. Landology 55 Sierra College Lincoln, CA	\$ 85,651.00	\$	2 ✓	✓
2 Dominguez Landscape 8376 Roxana Cir. Sacramento, CA 95828	\$ 132,908.18	\$	2 ✓	✓
3 Aerco Pacific 11370 J Amalgam Way Ranch Cordova,	\$ 81,663.00	\$	2 ✓	✓
4 California Landscape 8330 balena Ave Sacramento, CA 95828	\$ 10,513 107,513.00	\$	2 ✓	✓
5	\$	\$		
6	\$	\$		
7	\$	\$		
8	\$	\$		
9	\$	\$		
10	\$	\$		

Finance

Deputy City Clerk

Date

Date

RESOLUTION NO. 2016-

RESOLUTION OF THE CITY COUNCIL
OF THE CITY OF ROCKLIN APPROVING
A NOTICE OF EXEMPTION
(Rocklin Entrance Landscaping (Pacific Street) Project)

WHEREAS, the City of Rocklin's Environmental Coordinator has reviewed the Sierra College Boulevard/I-80 Interchange Landscape Improvement Project ("Project") and determined that it is exempt from review under the California Environmental Quality Act pursuant to California Code of Regulations Section 15301 – Existing Facilities and 15304 – Minor Alterations to Land; and

WHEREAS, a Notice of Exemption has been prepared for the Project.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Rocklin as follows:

Section 1. Based on the review and determination of the Environmental Coordinator, the City Council finds that the Project is exempt from review under the California Environmental Quality Act.

Section 2. A Notice of Exemption is approved for the Project.

Section 3. Upon approval of the Project by the City Council, the Environmental Coordinator may file the Notice of Exemption with the County Clerk of Placer County and, if the Project requires a discretionary approval from any state agency, with the State Office of Planning and Research, pursuant to the provisions of Section 21152(b) of the Public Resources Code and the State EIR Guidelines adopted pursuant thereto.

PASSED AND ADOPTED this 8th day of November, 2016, by the following vote:

AYES: Councilmembers:
NOES: Councilmembers:
ABSENT: Councilmembers:
ABSTAIN: Councilmembers:

Gregory A. Mayor

ATTEST:

Barbara Ivanusich, City Clerk



BACK TO AGENDA

NOTICE OF EXEMPTION

TO: ☐ County Clerk, County of Placer
2954 Richardson Blvd.
Auburn, CA 95604-5228

FROM: City of Rocklin
Economic and Community Development
3970 Rocklin Road
Rocklin, CA 95677

Project Title: Rocklin Entrance Landscaping (Pacific Street) Project

Project Location - Specific: The proposed project location is on Pacific Street, between Sunset Boulevard and the southern City limits.

Project Location - City: Rocklin, CA; **County:** Placer

Description of Nature, Purpose and Beneficiaries of Project: The proposed project would involve adding new landscaping (trees, shrubs, groundcover and bark) and associated irrigation system improvements within the Pacific Street median from Sunset Boulevard to the southern City limits and on the southeast side of the roadway from north of Woodside Drive to just north of the southern City limits. All of the work will occur within the existing Pacific Street right-of-way and no improvements to the roadway will occur.

Name of Public Agency Approving Project: City of Rocklin

Name of Person or Agency Carrying Out Project: City of Rocklin Public Services, Attn: Rick Forstall, 4081 Alvis Court, Rocklin, CA 95677, (916) 625-5500.

Exempt Status (Check one)

☒ x Categorical Exemption (California Code of Regulations Sec. 15300 et seq.): Section 15301 – Existing Facilities and 15304 – Minor Alterations to Land

Reasons why the project is exempt. The project involves landscape improvements to an existing roadway, as further described above. Class 1 exemptions consist of the operation, repair, maintenance, permitting, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination. Examples of this exemption include, but are not limited to: (c) Existing highways and streets, sidewalks, gutters, bicycle and pedestrian trails, and similar facilities (this includes road grading for the purpose of public safety). Class 4 exemptions consist of minor public or private alterations in the condition of land, water, and/or vegetation which do not involve removal of healthy, mature, scenic trees except for forestry or agricultural purposes. Examples include, but are not limited to: (b) New gardening or landscaping, including the replacement of existing conventional landscaping with water efficient or fire resistant landscaping. The project as proposed is consistent with the exemption class descriptions noted above and is exempt pursuant to Classes 1 and 4 of the CEQA Guidelines.

Contact Person: Rick Forstall, Public Services Director

Date received for Filing: _____

Signature: _____

Rick Forstall, Public Services Director

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RESOLUTION NO. 2016-

RESOLUTION OF THE CITY COUNCIL
OF THE CITY OF ROCKLIN AUTHORIZING THE CITY MANAGER TO AWARD THE BID FOR
THE ROCKLIN ENTRANCE LANDSCAPING (PACIFIC STREET) PROJECT

The City Council of the City of Rocklin does resolve as follows:

Section 1. WHEREAS, bids were opened on October 11, at 10:00 A.M. and examined and found to be in compliance with all applicable specifications; and

WHEREAS, the lowest responsible bid was determined to be \$81,663.00.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Rocklin as follows:

Section 1. The City Council awards the bid to Aerco Pacific, Inc.

Section 2. The City Manager is hereby authorized to execute the Agreement attached hereto as Exhibit A and incorporated herein by this reference, for the Rocklin Entrance Landscaping (Pacific Street) Project.

Section 3. The City Council hereby establishes the City Manager's Change Order Authority in the amount of \$15%.

PASSED AND ADOPTED this 11th day of November, 2016, by the following vote:

AYES:	Councilmembers:
NOES:	Councilmembers:
ABSENT:	Councilmembers:
ABSTAIN:	Councilmembers:

Gregory A. Janda, Mayor

ATTEST:

Barbara Ivanusich, City Clerk

EXHIBIT A

**CITY OF ROCKLIN
AGREEMENT FOR THE CONSTRUCTION OF THE
ROCKLIN ENTRANCE LANDSCAPING (PACIFIC STREET)**

THIS AGREEMENT, made and entered into this 8th day of November, 2016, by and between the CITY OF ROCKLIN, a municipal corporation, (hereinafter referred to as "City"), and Aerco Pacific, Inc., a corporation duly organized and existing under the laws of the State of California, (hereinafter referred to as "Contractor").

RECITALS

WHEREAS, the City Council of the City of Rocklin has awarded a contract to Contractor for performance of the work set forth herein.

AGREEMENTS

SECTION 1 - SCOPE OF WORK

Contractor agrees to furnish all tools, equipment, apparatus, facilities, labor and materials necessary to perform and complete in a good and workmanlike manner, and in strict accordance with the Contract Documents as defined in section 7 hereof, the work of:

Rocklin Entrance Landscaping (Pacific Street)

City of Rocklin, Placer County, California, as called for in the drawings and specifications adopted by the City, which drawings and specifications have been executed by the parties to this agreement. It is understood and agreed that said tools, equipment, apparatus, facilities, labor and materials shall be furnished, and said work performed and completed as required in the Contract Documents, under the direction and supervision of, and subject to the approval of the City and its duly authorized representatives.

SECTION 2 - TIME OF COMPLETION

The work shall be commenced on the date specified in the City's "Notice to Contractor to Proceed," and shall be fully completed no later than Forty-Five (45) calendar days thereafter, or such additional time as may have been provided by change order, pursuant to the Contract Documents.

Time is of the essence of this agreement.

SECTION 3 - CONTRACT PRICE

City shall pay Contractor for the full and complete performance of this contract the sum of Eighty-One Thousand, Six Hundred and Sixty-Three DOLLARS (\$81,663.00), subject to adjustments as provided in the Contract Documents.

SECTION 4 - MONTHLY PROGRESS PAYMENTS

Monthly progress payments shall be made in accordance with Article 23 of the General Conditions of these Contract Documents.

SECTION 5 - FINAL PAYMENT

Final payment shall be made in accordance with Article 25 of the General Conditions of these Contract Documents.

SECTION 6 - ACCEPTANCE OF FINAL PAYMENT AS RELEASE

The acceptance by the Contractor of final payment shall be and shall operate as a release to the City of any and all claims and all liability to the Contractor for all things done or furnished in connection with this work and for every act and/or neglect of the City or others relating to or arising from the work. No payment, however, final or otherwise, shall operate to release the Contractor or his sureties from any obligations under this contract or the performance and payment bonds required by this contract.

SECTION 7 - CONTRACT DOCUMENTS

The complete contract between the parties hereto shall consist of the following documents herein referred to as the "Contract Documents," on file in the Public Services Department:

- Notice and Information to Bidders
- Bid Form
- Designation of Subcontractors
- This Agreement
- Bidder's Bond
- Performance Bond
- Payment Bond
- General Conditions
- Special Provisions
- Contract Drawings and Plans
- Technical Specifications
- Duly Issued addenda

Duly Issued interpretations
 Supplemental Drawings issued pursuant to Article 4 of the General Conditions
 Shop Drawings and Manufacturers' Instructions approved pursuant to Article 5
 of the General Conditions
 Approved Change Orders
 Contractor's Guarantee and Warranty & Maintenance Bond

Such documents, collectively referred to herein as the Contract Documents, hereby are incorporated herein by this reference and made a part hereof.

SECTION 8 – CONTRACTOR REGISTERED AND QUALIFIED TO PERFORM PUBLIC WORK

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5 of the Labor Code. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 of the Labor Code at the time the contract is awarded.

IN WITNESS WHEREOF, the parties hereto executed this agreement the day and year first above written.

CITY OF ROCKLIN

By: _____
 Ricky A. Horst, City Manager

Contractor:

(Name)

(Official Title)

(Business Address)

(License Number)

APPROVED AS TO FORM:

DeeAnne Gillick, Interim City Attorney

ATTEST:

Barbara Ivanusich, City Clerk



CITY MEMORANDUM

DATE: November 1, 2016
TO: Mayor Greg Janda and members of the Rocklin City Council
FROM: Ricky A. Horst, City Manager
SUBJECT: City Manager Report

Placer County's Community Choice Energy Proposal: Community Choice Aggregation, abbreviated CCA, is a system (neither a company nor an organization) adopted into law by AB 117 in 2002 which allows cities and counties to aggregate the buying power of individual customers within a defined jurisdiction in order to secure alternative energy supply contracts on a community-wide or multi-community wide basis. CCAs now serve nearly five percent of Americans in over 1300 municipalities as of 2014.[1] CCA's are de facto public utilities of a new form that aggregate regional energy demand and negotiate with competitive suppliers and developers, rather than the traditional utility business model based on monopolizing energy supply.

California's adoption of CCA in 2002 inaugurated a new phase of CCA with a focus on green power rather than merely energy discounts. In the early days of the California energy crisis, Paul Fenn, the Massachusetts Senate Energy Committee director who conducted the legal research and drafting of the original CCA legislation, formed Local Power Inc.[7] and drafted new CCA legislation for California.[8] In a campaign organized by Local Power, the City and County of San Francisco led Oakland, Berkeley, Marin County, and a group of Los Angeles municipalities in adopting resolutions asking for a state CCA law in response to the failure of California's deregulated electricity market. Fenn's bill was sponsored by then Assembly Member Carole Migden (D-San Francisco) in 2001, and the bill became law (AB117) in September, 2002.[9]

Inspired by Climate Protection efforts, CCA has spread to cities throughout the Bay Area and the state. In 2007, forty California local governments were in the process of implementing CCA, virtually all of them seeking to double, triple or quadruple the green power levels (Renewable Portfolio Standard, or "RPS") of the state's three Investor-Owned Utilities.

Under the direction of Jenine Windeshausen, Placer County Treasurer-Tax Collector, Jenine has put forth a Community Choice Energy program. City representatives attended an initial meeting on October 18, 2016 to learn of the County's proposal. Placer County wants all South Placer cities (except Roseville) to commit by ordinance to join a CCE JPA. Although Placer County began their research 18 months ago, they desire city commitment by the end of November.

Placer County has hired a consulting team. They include Dr. Dean Tibbs (Ph.D. in Economics from U.C. Davis, and former employee of PG&E and San Diego Gas and Electric); Steven Nichols (retired as PG&E's Director of Customer Care after 37 years of service); and Tom Barrington (mechanical engineer, retired Hewlett Packard employee and former Chair of Roseville's Public Utility Commission). To date Placer County has made presentations to Colfax and Lincoln but not Rocklin.

Placer County has 49.9% of the energy users and would therefore control the JPA. The numbers are:

Placer County	49.9%
Rocklin	23.9%
Lincoln	12.4%
Auburn	8.7%
Loomis	3.4%
Colfax	1.5%
Roseville (not served by City)	0.2%

Placer County desires to have the CCE JPA operational by the third quarter of 2017 and will proceed with or without the cities and towns.

(See Power Point Presentation as attached.)

Recommendations:

a. While the concept has merit, I recommend caution and time sufficient to study and effectively consider the pros and cons of joining a CCE JPA. The time line submitted is self-driven and not legislated by policy or rule.

b. Both I, Rick Horst and Lincoln City Manager Matt Brower have served in cities that have owned, operated and purchased power supply through similar structures. We and our team should be allowed sufficient time to vet such a proposal and report our findings to our respective City Council's.

c. We invite Jenine Windeshausen, Placer County Treasurer – Tax Collector to make a formal presentation to the City of Rocklin City Council.

d. In the interim, we continue to have staff representatives at all meetings convened for this purpose and report out any significant findings.

Placer County to Give Sunset Area Plan Update: Please be advised that Placer County staff, Michele Kingsbury and Sherri Conway have confirmed that they will be coming to the Rocklin City Council meeting on December 13, 2016 to give an informational presentation on the SIA Update and Placer Ranch.

Joint Power Agencies, Placer County Committees and Regional Boards: Please be advised that city staff has now been assigned to all agencies, committees and boards assigned to monitor trends, studies, potential actions and prepare Committee Action Reports (CCA's) for use by the City Council as they represent the City to said agencies, committees and/or boards. The CCA's will be distributed to all City Council members for informational purposes and provide question, recommendation, and/or findings in support of or non-support of pending issues. These reports will also be posted to the City of Rocklin web site for public review. For committee assignments, see attached.

COMMUNITY CHOICE ENERGY

Placer's Power Advantage

Presentation to City Staff Members
October 18, 2016



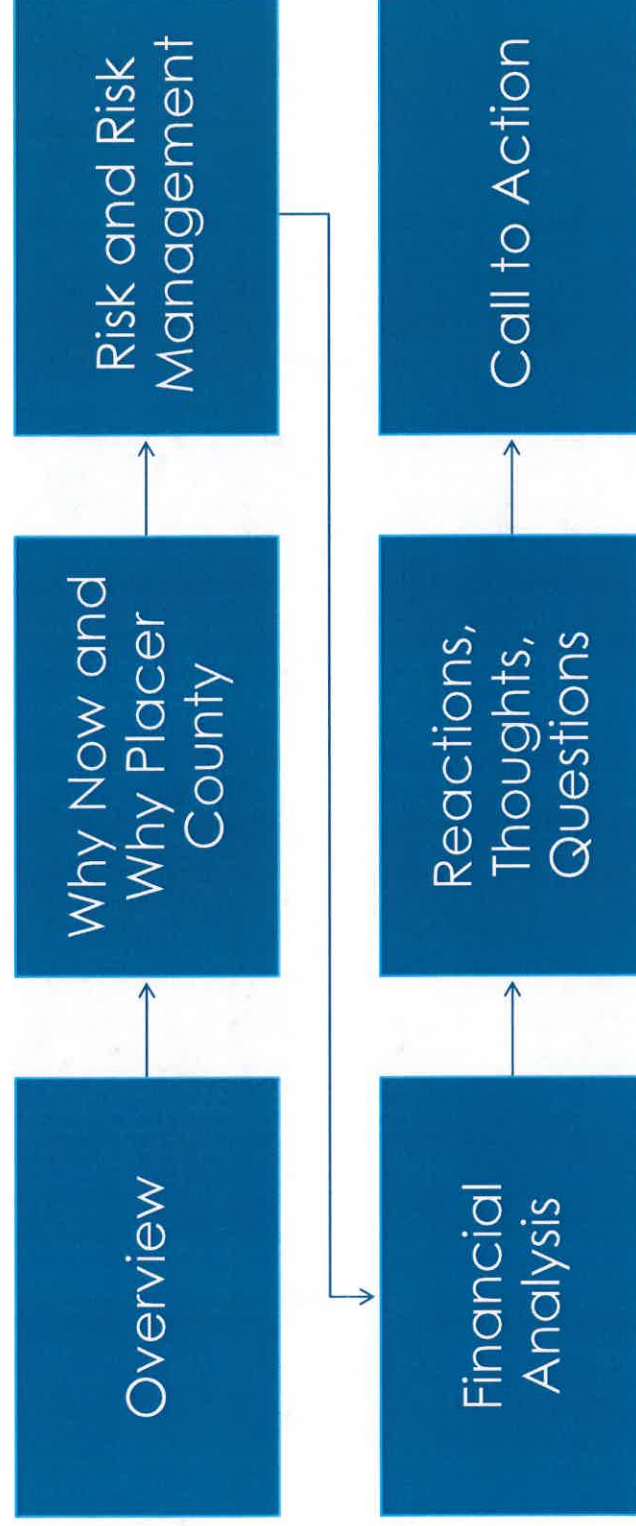
- ▶ City staff
- ▶ Placer County
- ▶ Key third party suppliers

TEAM INTRODUCTIONS

- ▶ In-depth discussion
- ▶ Invitation

MEETING GOALS

Meeting Outline



- ▶ Vision for Placer County
- ▶ Community Choice Energy (CCE)
- ▶ Placer CCE Service Area by Utility
- ▶ Scope of Opportunity
- ▶ Load by Rate Schedule Type
- ▶ Implementation Steps

OVERVIEW

Vision for Placer County

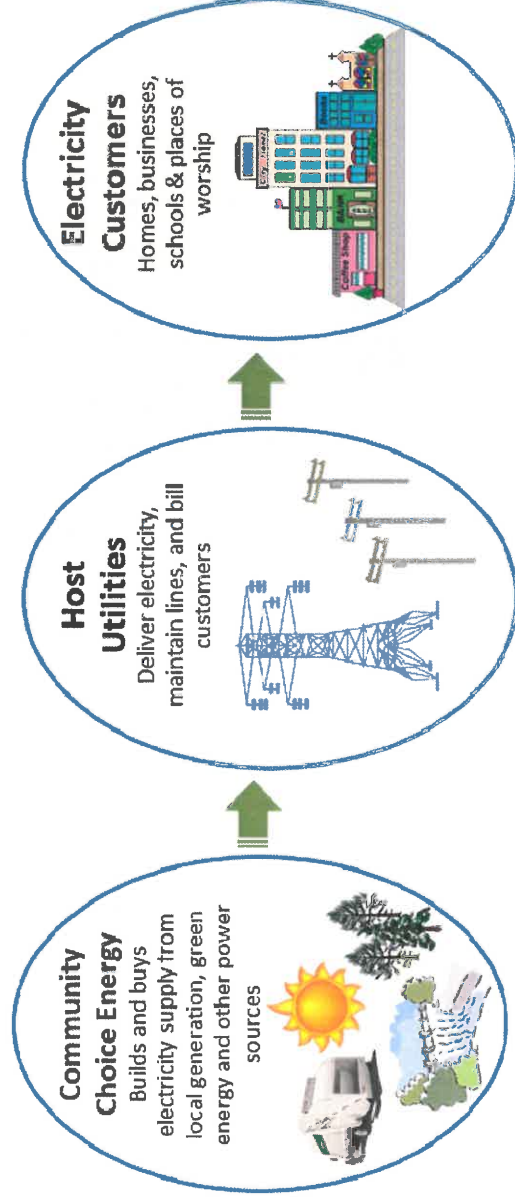
- ▶ Integrated energy strategy
- ▶ Hydroelectric power
- ▶ Waste streams into energy
- ▶ Water delivery and wastewater treatment
- ▶ Forest biomass as fuel
- ▶ Energy efficiency, conservation, and demand management
- ▶ Economic development, jobs, tax base
- ▶ Community Choice Energy

Community Choice Energy

- ▶ Authorized by AB 117 - 2002
- ▶ Cities and counties purchase electric supply on behalf of their community
- ▶ PG&E continues to deliver energy, maintain lines, respond to outages, and bill and collect payments
- ▶ CCE determines energy sources, portfolio, rates, and programs
- ▶ Achieves local economic, environmental, and social benefits

Community Choice Energy

Community Choice Energy



Placer CCE Service Area by Utility

Utility Service Areas
in Placer County



Scope of Opportunity

	Total Sales (MWh)		Total Accounts		Total Demand (MW)	
Unincorporated Placer County	660,884	47.9%	49,307	40.3%	129.2	49.9%
Rocklin	345,574	25.1%	33,606	27.5%	61.9	23.9%
Lincoln	224,836	16.3%	24,565	20.1%	32.1	12.4%
Auburn	90,824	6.6%	9,708	7.9%	22.5	8.7%
Loomis	40,956	3.0%	3,690	3.0%	8.8	3.4%
Colfax	14,583	1.1%	1,424	1.2%	3.8	1.5%
City of Roseville	1,669	0.1%	23	0.0%	0.4	0.2%
Totals	1,379,327	100.0%	122,323	100.0%	258.8	100.0%

- ▶ Comparable in size to other existing and planned CCEs
- ▶ Liberty Utilities not included (additional 25%)

Load by Rate Schedule Type

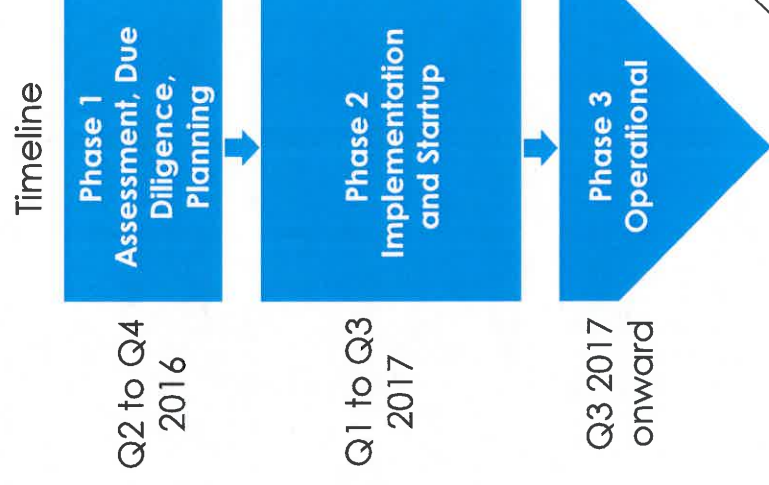
	Small and Medium			Traffic and			Total
	Residential	Commercial	Industrial	Agricultural	Street Lighting	Standby Power Sales	
Unincorporated Placer County	374,939	117,866	150,474	13,731	1,253	2,622	660,884
Auburn	43,047	36,782	10,129	110	757	0	90,824
Colfax	6,462	5,837	2,204	-	80	-	14,583
Lincoln	147,237	44,214	30,803	1	2,582	-	224,836
Loomis	23,493	12,887	4,463	6	106	0	40,956
Rocklin	185,983	88,311	68,834	-	2,446	-	345,574
City of Roseville (PG&E A/Cs)	73	45	1,545	6	1	-	1,669
Total	781,234	305,940	268,452	13,854	7,225	2,622	1,379,327

Percent of Total:	56.6%	22.2%	19.5%	1.0%	0.5%	0.2%	100.0%
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► Benefits are equally available

Implementation Steps

- ▶ Due Diligence and Financial Analysis (complete)
- ▶ County authorization (in process)
- ▶ City ordinances
- ▶ Form JPA
 - ▶ Board of Directors
 - ▶ Rates/Programs Committee
- ▶ Submit Implementation Plan and Statement of Intent
- ▶ Ramp up for operations
- ▶ Initiate service



- ▶ Placer County's advantages
- ▶ Benefits
- ▶ Strategic Timing

WHY IN PLACER COUNTY AND WHY NOW?

Placer County's Advantages

- ▶ Locally sourced energy supply
 - ▶ Hydro and solar
 - ▶ Biomass and waste streams
- ▶ Financing
 - ▶ Expertise in energy projects
 - ▶ Local focus and retention of financial gains
- ▶ Operations
 - ▶ mPOWER and energy efficiency
 - ▶ Significant opportunities for demand response

Benefits

- ▶ Lower and More Stable Electricity Cost
- ▶ Jobs and Economic Growth
- ▶ Environmental Benefits
- ▶ Energy Efficiency
- ▶ Public Goods Funds and Program Benefits
- ▶ Integrated Local and Community Focus

See page 20 of Financial Analysis and Due Diligence Report, October 10, 2016

Strategic Timing

- ▶ Energy market and resource commitments
- ▶ Availability of CCE employee expertise
- ▶ Availability of third party vendors
- ▶ Local and regional affiliations
- ▶ Shaping the future

- ▶ Pre-formation and Implementation Risks
- ▶ Post-formation and Operational Risks

RISK AND RISK MANAGEMENT

Pre-formation and Implementation Risks

Risk	Mitigating Conditions
Recovering pre-formation development costs	<ul style="list-style-type: none"> Funded by County; no financial risk to cities
Changes in regulatory environment	
Changes in energy marketplace	<ul style="list-style-type: none"> Best mitigation is timely decision and prompt follow-through on CCE development
Availability and cost of third party service providers	<ul style="list-style-type: none"> Off-ramps allow for slowing or even halting CCE development with no direct cost penalty as conditions require
Availability of qualified professional and technical staff	<ul style="list-style-type: none"> Risks are nominal and manageable
Support of elected policy makers to proceed	

Post-formation and Operational Risks

Risk	Mitigating Conditions
Uncertain future PG&E rates	<ul style="list-style-type: none"> • Same market forces, rates will parallel
Uncertain energy market prices	<ul style="list-style-type: none"> • Industry-proven risk management practices • Long-term, fixed price contracts • Owned generation stabilizes prices
Uncertain future Power Charge Indifference Adjustment (PCIA)	<ul style="list-style-type: none"> • Current energy market stability
Regulatory requirements and legislative changes	<ul style="list-style-type: none"> • Leadership from all CCEs is important
Customer satisfaction and opt-out rates	<ul style="list-style-type: none"> • Ensure high-level of customer service • Educate, promote, and report CCE benefits to ratepayers • Opt-out rate assumption is inflated
Competitiveness with PG&E	<ul style="list-style-type: none"> • Conservative financial analysis indicates reasonable headroom over PG&E rates

- ▶ Income statement approach
 - ▶ Revenue – expenses = net revenue
 - ▶ Cash-flow implications
- ▶ All assumptions calibrated
 - ▶ Adopted budgets of existing CCEs
 - ▶ Current and forecast market conditions from market participants
- ▶ Based on Placer CCE staffing and financing plans
- ▶ Conservative orientation
 - ▶ Costs and escalation assumptions are higher
 - ▶ Revenues and escalation assumptions are lower

FINANCIAL ANALYSIS

Energy Revenue Forecast

- ▶ Based on actual sales data for each PG&E account in Placer county and cities
- ▶ Forecast completed by Pacific Energy Advisors
- ▶ Used mid-2016 PG&E Rate Schedules to estimate
 - ▶ Revenues from sales
 - ▶ PCIA Charges from sales
- ▶ Aggregated revenues to construct a average energy price per MWh
 - ▶ \$95.88 per MWh for gross revenues
 - ▶ \$21.16 for PCIA reductions
- ▶ Provide customers a 5% savings on energy
$$\$95.88 * .095 = \$91.09 \text{ per MWh of sales}$$

See page 28 of Financial Analysis and Due Diligence Report, October 10, 2016

Energy Revenue Forecast

Revenues	Price of Energy and PCIA					
		FY 17 - 18	FY 18 - 19	FY 19 - 20	FY 20 - 21	FY 21 - 22
Avg. MW of Load		85.2	207.7	211.8	216.1	220.4
MWh of Energy		263,199	1,150,888	1,174,118	1,197,600.7	1,221,552.7
Annual Energy Revenues (net of ADA)	\$	91.09 \$ 24,212,792	107,463,026	111,276,579	115,204,642	119,271,366
Less: PCIA, etc. Charges	\$	21.16 -\$ 5,624,994	-\$ 24,842,289	-\$ 25,597,152	-\$ 26,370,186	-\$ 27,166,565
Revenues from Sales of Energy		18,587,798	82,620,737	85,679,428	88,834,457	92,104,801

- ▶ Phasing of load (municipal, non-residential, then residential)
- ▶ Assumes 15% opt-out rate
- ▶ Annual Energy Revenues adjusted for delinquent accounts
- ▶ PCIA charge (on bill, collected directly by PG&E)

Energy Portfolio Cost Forecast

	Cost	FY18	FY19	FY20	FY21	FY22
Components						
Energy Portfolio Cost						
Sales (Energy MWh)		63,199	150,888	174,118	197,600.7	221,552.7
Commodity (commodity, ISO, etc.)	3.23	\$4,010,109	\$2,793,332	\$4,060,775	\$5,341,990	\$6,648,830
Data Management (billing, reconciliations, etc.)	.46	83,793	720,160	754,880	789,978	825,777
PG&E fees related to CAA activities	.47	\$24,541	\$58,194	\$69,461	\$80,850	\$92,467
Total Energy Cost		\$4,518,443	\$5,071,686	\$6,385,116	\$7,712,818	\$9,067,074

- ▶ Based on same amount of energy sales (MWh)
- ▶ Assumes 2.5% energy cost escalation

Operations Cost Forecast

	FY 17 - 18	FY 18 - 19	FY 19 - 20	FY 20 - 21	FY 21 - 22
Ongoing Operations (Commencement: 2017, Q-II)					
Personnel	\$ 1,207,802	\$ 1,675,320	\$ 2,028,155	\$ 2,078,859	\$ 2,130,831
Facilities, Equipment and Supplies; communications	\$ 60,000	\$ 61,500	\$ 63,038	\$ 64,613	\$ 66,229
Outreach and Communications	\$ 500,000	\$ 625,000	\$ 831,250	\$ 852,031	\$ 873,332
Required Noticing	\$ 400,000	\$ 500,000	\$ 665,000	\$ 681,625	\$ 698,666
Other Professional Services	\$ 755,000	\$ 943,750	\$ 1,255,188	\$ 1,286,567	\$ 1,318,731
Programs					
Program Development and Implementation	\$ 25,000	\$ 75,000	\$ 100,000	\$ 102,500	\$ 105,063
Program Expenditures	\$ -	\$ -	\$ 400,000	\$ 750,000	\$ 1,000,000
Other Uses					
Collateral Deposits	\$ 1,500,000	\$ 1,875,000	\$ 2,493,750	\$ 2,000,000	\$ 1,000,000
Capital Outlay	\$ 50,000	\$ 150,000	\$ 125,000	\$ 166,250	\$ 221,113
Debt Service	\$ 430,000	\$ 590,000	\$ 631,000	\$ 694,100	\$ 763,510
Contributions to Reserves	\$ 968,512	\$ 4,298,521	\$ 4,451,063	\$ 4,608,186	\$ 4,770,855
Total Operations Cost	\$ 5,896,314	\$ 10,794,091	\$ 13,043,443	\$ 13,284,732	\$ 12,948,328

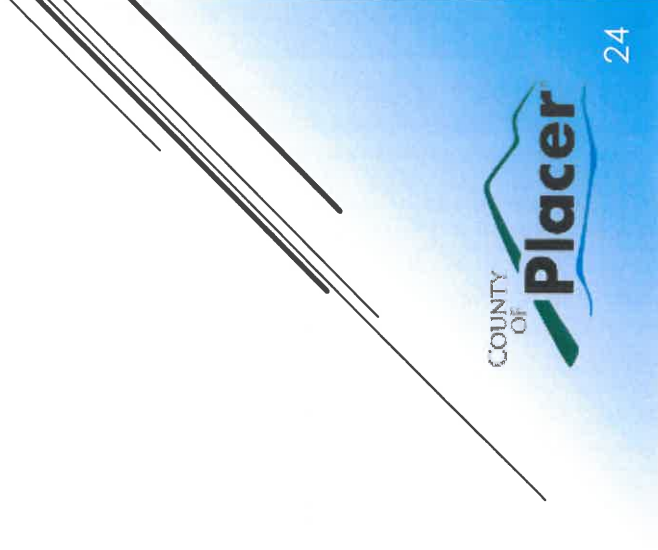
- ▶ Noticing costs based on 4 notices to each ratepayer
- ▶ Collateral Deposits and Contributions to Reserves remain assets of CCE

Net Revenue and Cash Flow

	FY1718	FY1819	FY1920	FY2021	FY2122
Revenue from Sales of Electricity	\$8,587,798	\$82,620,737	\$85,679,428	\$88,834,457	\$92,104,801
Power and Operations Costs	\$4,518,443	\$5,071,686	\$5,385,116	\$5,712,818	\$5,906,074
Operations Costs	\$5,896,314	\$10,794,091	\$11,304,343	\$11,328,732	\$12,948,328
Total Revenue Requirement	\$10,414,757	\$15,865,777	\$16,689,428,559	\$17,041,550	\$18,854,402
Net Revenue	(\$1,826,959)	\$6,754,960	\$6,250,869	\$7,836,907	\$10,089,399
Cash Flow	\$41,553	\$12,928,481	\$13,595,682	\$15,195,093	\$16,860,253

- ▶ First year Net Revenues reflect collateral deposits and contributions to reserves
- ▶ Net Revenue and Cash Flow include Treasury borrowing and repayment
- ▶ Net Revenues become positive in the second year
- ▶ Cash Flow is positive starting in year one

Reactions, Thoughts, Questions



Call to Action

- ▶ Ordinance (November)
- ▶ JPA formation meetings with city representatives (can start prior to ordinance adoption)
- ▶ JPA formation (November/December)
- ▶ First JPA meeting (before end of January)
- ▶ CCE team can provide support and resources

BACKUP SLIDES

Net Revenue By Rate Group

Rate Group	Gross		Gross Energy Rate	PCI&A and Other		Net Revenue	Net Rate (Gross - PCI&A, etc.)
	Sales (MWh)	Revenue at 2016 PG&E Generation Rates		Surcharge	Other		
Residential	783,434	\$ 75,596,120	\$ 96.49	\$ 18,684,890		\$ 56,911,230	\$ 72.64
Small Commercial	161,498	\$ 15,959,177	\$ 98.82	\$ 2,994,165		\$ 12,965,012	\$ 80.28
Medium Commercial	135,723	\$ 13,588,064	\$ 100.12	\$ 2,643,892		\$ 10,944,173	\$ 80.64
Industrial	234,726	\$ 21,095,350	\$ 89.87	\$ 3,646,704		\$ 17,448,646	\$ 74.34
Agricultural	12,848	\$ 1,223,196	\$ 95.21	\$ 250,018		\$ 973,178	\$ 75.75
Street Lighting	6,450	\$ 517,659	\$ 80.26	\$ 22,058		\$ 495,600	\$ 76.84
Traffic Controls	748	\$ 64,109	\$ 85.70	\$ 13,869		\$ 50,240	\$ 67.16
Total	1,335,427	128,043,676	\$ 95.88	28,255,596		99,788,079	\$ 74.72

Load Phasing

Phase of Service	Service Begin Month	Electricity Sales (MWh)	Percent of Annual Sales
Municipal and Government Accounts	1	64,081	4.8%
Non-Residential Accounts	7	487,912	36.5%
Residential Accounts	13	783,434	58.7%
Total Electrical Load		1,335,427	100.0%

**STAFF APPOINTMENTS TO JOINT POWER AGENCIES, PLACER COUNTY
COMMITTEES, AND REGIONAL BOARDS**

NAME	STAFF
Highway 65 Interchange Financing JPA Board	Palmer
Mosquito Abatement District	None
Placer County Air Pollution Control District Board	Mohlenbrok
Placer County City Selection Committee (Mayors)	None
Placer County Economic Development Board	Horst
Placer County Flood Control and Drainage District Board	Pinkham
Placer County Local Agency Formation Commission (LAFCO)	Webster
Placer County Local Community Benefit Committee (LCBC)	None
Placer County Solid Waste Task Force	Nartker
Placer County Transportation Planning Agency Board	Palmer
Sacramento Area Council of Governments Board	Horst
South Placer Regional Transportation Authority Board	Palmer
Western Placer Waste Management Authority Board	Nartker
Greater Sacramento Area Economic Council	Mondell
Rocklin Oversight Board	Horst