



LIVE OAK CITY COUNCIL

REGULAR MEETING AGENDA OCTOBER 18, 2023 6:00 PM

MEETING LOCATION
LIVE OAK COUNCIL CHAMBERS
9955 LIVE OAK BOULEVARD
LIVE OAK, CALIFORNIA 95953

MEMBERS OF THE COUNCIL

BOB WOTEN, MAYOR
JERAMY CHAPDELAINE, VICE MAYOR
LAKHVIR GHAG, COUNCILMEMBER
ASHLEY HERNANDEZ, COUNCILMEMBER
NANCY SANTANA, COUNCILMEMBER

AARON PALMER,
CITY MANAGER

NICOLE ROSSER,
CITY ATTORNEY

The Council may take up any agenda item at any time, regardless of the order listed. Action may be taken on any item on this agenda. Materials related to an item on this Agenda submitted to the Council after distribution of the agenda packet are available for public inspection at City Hall, 9955 Live Oak Boulevard, Live Oak, during normal business hours. Such documents are also available on the City of Live Oak's website at www.liveoakcity.org, subject to staff's availability to post the documents before the meeting.

In compliance with the Americans with Disabilities Act, the meeting room is wheelchair accessible and disabled parking is available. If you have a disability and need disability-related modifications or accommodations to participate in this meeting, please contact the City Clerk's office at (530) 695-2112 x107. Requests must be made at least 24 hours in advance.

- **Remote Viewing:**

- Members of the public can view a livestream of the meeting online at https://liveoakca.granicus.com/ViewPublisher.php?view_id=1.
- Members of the public can access the Zoom webinar as follows:
 - **Join by Electronic Device:**
<https://us02web.zoom.us/j/89074430872>
 - **Join by Phone:**
1-669-900-6833 or 1-833-548-0282 (Toll Free)
Webinar ID: 890 7443 0872

- **Public Comment:** Members of the public can submit general public comments, as well as comment on specific agenda items in the following ways:
 - **Public Attendance:** Members of the public who attend in person may make comments from the Council Chamber podium.

- **Live Remote Public Comment:** Members of the public can submit a live remote public comment by:
 - *Joining the virtual Council meeting via the link below. When public comment is opened, raise your virtual hand and be called upon to speak for up to 3 minutes.*

<https://us02web.zoom.us/j/89074430872>
 - *Joining the virtual Council meeting by calling the phone number below. When public comment is opened, dial *9 to raise your hand and be called upon to speak for up to 3 minutes.*

1-669-900-6833 or 1-833-548-0282 (Toll Free)
Webinar ID: 890 7443 0872
 - **Email Public Comment:** Comments from the public on agenda items will be accepted until 1:00 pm on the date of the meeting, via email to the City Clerk at cmenchaca@liveoakcity.org. Comments will be distributed to Council prior to the meeting and attached to the minutes. Please note that emailed comments will NOT be read aloud by staff during the meeting.
 - **eComment Feature:** Comments from the public on agenda items will be accepted until 1:00 pm on the date of the meeting, via the eComment feature at https://liveoakca.granicus.com/ViewPublisher.php?view_id=1. Comments will be distributed to Council prior to the meeting and attached to the minutes. Please note that eComments will NOT be read aloud by staff during the meeting.
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CALL TO ORDER**ROLL CALL****PLEDGE OF ALLEGIANCE AND INVOCATION****CORRECTIONS AND/OR CHANGES TO THE AGENDA BY CITY MANAGER ONLY****PRESENTATIONS AND RECOGNITIONS**

- A. Domestic Violence Awareness Month Proclamation

PUBLIC COMMENT

Any person wishing to address the City Council on general jurisdictional matters or consent calendar items may do so at this time. If you are commenting on an agenda item, your comments will be heard at the time that item is scheduled for discussion. The City Council adopted a time limit of three minutes per person. The Brown Act does not allow for Council discussion of items not on the agenda.

Councilmembers may only a) refer the matter to staff; b) ask for additional information; c) request a report back; or d) provide a limited factual response for items not listed on the agenda.

CONSENT ITEMS

Consent Calendar is passed by one motion with exceptions and separate votes as noted.

1. City Council Meeting Minutes
Recommendation: Approve the October 4, 2023, City Council Regular Meeting minutes.
(Clarissa Menchaca, City Clerk)
2. City Projects Update
Recommendation: Receive and file.
(Ron Walker, Public Works Director)
3. Approval of New Contract with Raney Planning and Management, Inc. for Staff and Project Based Planning Services
Recommendation: Approve a new services contract with Raney Planning and Management, Inc. for staff and project based planning services.
(Aaron Palmer, City Manager)

DISCUSSION ITEMS

4. Ad Hoc Committee on Sheriff's Contract Discussion
Recommendation: Ad Hoc Committee on Sheriff's Contract will give an update on the contract status. Also, the Council will discuss with the committee their ideas for items to be included in the new contract.
(Aaron Palmer, City Manager)
5. City Council Consideration to Advertise for Bids for City of Live Oak Pennington Road East Overlay Project
Recommendation: Authorize the City Engineer to advertise the City of Live Oak Pennington Road East Overlay Project.
(Scott Rolls, City Engineer)

BUSINESS ITEMS

6. Approval of Contracts with Eco Green Solutions
Recommendation: Approve contracts with Eco Green Solutions.
(Luis Cibrian, Parks and Recreation Director)

ITEMS REMOVED FROM THE CONSENT AGENDA FOR COUNCIL CONSIDERATION AND ACTION

UPDATES AND ANNOUNCEMENTS FROM THE CITY ATTORNEY AND CITY MANAGER

COUNCILMEMBER COMMENTS

ADJOURNMENT



**City of Live Oak
Report to City Council**

Meeting Date: October 18, 2023

Title: Domestic Violence Awareness Month Proclamation

Attachments:

[Proclamation Request Letter](#)
[Proclamation](#)

October 5, 2023

REQUESTED PROCLAMATIONS

Live Oak City Council
9955 Live Oak Boulevard
Live Oak, California 95953

Dear Honorable City Council Members,

In 1987 the first Domestic Violence Awareness Month was observed. In 1989 Congress passed Public Law 101-112 officially designating October as National Domestic Violence Awareness Month.

October is here and once again we are asking for your support. Each year we come before you and ask that you proclaim October as Domestic Violence Awareness Month with a proclamation. Each year you have shown your support to the abused and battered women, men and children of our community through your proclamation.

We know that as one we can make a difference in someone's life. Working together as a team we can make a difference in creating hope, health and healing in our community, through prevention, intervention and education programs.

I have included a sample proclamation with this request. Purple is the symbolic color for Domestic Violence Awareness Month. We invite you to wear a purple ribbon during the month of October. Another way to turn our communities purple is to replace your outside lights with a purple light bulb for the month of October. This will be evidence of your personal commitment to ending the tragedy of domestic violence, as well as your support of those individuals and agencies that daily fight the battle. I hope that we can be on your board meeting calendar the first meeting in October. We appreciate the support you have provided in the past and look forward to your continuing partnership in the future. If you have any questions, you can reach me (530) 674-5400. Thank you again for your support.

Sincerely,
Mina York
Volunteer Program Coordinator
Casa de Esperanza



Proclamation

Honoring October 2023 as Domestic Violence Awareness Month

WHEREAS, the crime of domestic violence violates an individual's privacy, dignity, security and humanity due to the systematic use of physical, emotional, sexual, psychological and economic control and/or abuse; and

WHEREAS, domestic violence leaves an imprint of fear and hostility; and

WHEREAS, the problems of domestic violence are not confined to any group or groups of people, but cross all economic, racial, affectional preference, and social barriers; thereby affecting society as a whole; and

WHEREAS, in the City of Live Oak, adults and children are victims of violence each year; and

WHEREAS, the Live Oak City Council is committed to restoring the right to freedom from fear in our own homes; and

WHEREAS, in our quest to impose sanctions on those who break the law by perpetrating violence, we must also meet the needs of victims of domestic violence and their children who often suffer grave financial, physical, and psychological losses.

NOW, THEREFORE, BE IT RESOLVED that in recognition of the important work done by Domestic violence programs, in cooperation with Casa de Esperanza, Inc., that the Live Oak City Council does hereby proclaim the month of October 2023 as Domestic Violence Awareness Month.

TOGETHER AS A TEAM we can make a difference in creating HOPE, HEALTH, AND HEALING in our community. This can be done through PREVENTION, INTERVENTION, AND EDUCATION PROGRAMS, which creates zero tolerance for domestic violence on our community.

Dated this 18th day of October, 2023.

Bob Woten, Mayor

Jeramy Chapdelaine, Vice Mayor

Lakhvir Ghag, Council Member

Ashley Hernandez, Council Member

Nancy Santana, Council Member



**City of Live Oak
Report to City Council**

Meeting Date: October 18, 2023

Title: City Council Meeting Minutes

Contact Information: Clarissa Menchaca, City Clerk

Recommendation: Approve the October 4, 2023, City Council Regular Meeting minutes.

Attachments:

[Minutes](#)



LIVE OAK CITY COUNCIL

MINUTES
OCTOBER 4, 2023
6:00 PM

MEETING LOCATION
LIVE OAK COUNCIL CHAMBERS
9955 LIVE OAK BOULEVARD
LIVE OAK, CALIFORNIA 95953

MEMBERS OF THE COUNCIL

BOB WOTEN, MAYOR
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ASHLEY HERNANDEZ, COUNCILMEMBER
NANCY SANTANA, COUNCILMEMBER

AARON PALMER,
CITY MANAGER

NICOLE ROSSER,
CITY ATTORNEY

CALL TO ORDER

Meeting called to order by Mayor Woten at Live Oak City Council Chambers, 9955 Live Oak Boulevard, Live Oak, CA at 6:01 pm.

ROLL CALL

Present: Councilmembers Hernandez, Santana, Ghag, Vice Mayor Chapdelaine, and Mayor Woten

PLEDGE OF ALLEGIANCE AND INVOCATION

Mayor Woten led the Pledge of Allegiance. Councilmember Ghag delivered the invocation.

CORRECTIONS AND/OR CHANGES TO THE AGENDA BY CITY MANAGER ONLY

There were no corrections and/or changes to the agenda.

PRESENTATIONS AND RECOGNITIONS

There were no presentations and/or recognitions.

PUBLIC COMMENT

The following members of the public submitted a written public comment: Dale Carlson and Marcus Prasad.

CONSENT ITEMS

Consent Calendar is passed by one motion with exceptions and separate votes as noted.

MOTION: APPROVE THE CONSENT AGENDA.
(MOTION: GHAG; SECOND: HERNANDEZ)

VOTE: MOTION PASSED UNANIMOUSLY

1. City Council Meeting Minutes
Clarissa Menchaca, City Clerk
Council action: September 6, 2023, City Council Regular Meeting minutes approved.

2. City Council Meeting Minutes
Clarissa Menchaca, City Clerk
Council action: September 27, 2023, City Council Special Meeting minutes approved.
3. City Projects Update
Ron Walker, Public Works Director
Council action: Received and filed.

BUSINESS ITEMS

4. Approval of Backhoe Loader Purchase
Ron Walker, Public Works Director

Ron Walker, Public Works Director, provided a report for the Council.

Public Comment was opened and closed without any speakers.

MOTION: 1) APPROVE PURCHASE OF A BACKHOE LOADER; AND 2) AUTHORIZE THE CITY MANAGER TO MAKE THE PURCHASE.
(MOTION: CHAPDELAINE; SECOND: WOTEN)

VOTE: MOTION FAILED 2-3
AYES: VICE MAYOR CHAPDELAINE AND MAYOR WOTEN
NOES: COUNCILMEMBERS HERNANDEZ, SANTANA, AND GHAG
ABSENT: NONE

5. Agreement with Larry Walker Associates, Inc. for Wastewater Treatment Plant Permitting Services
Ron Walker, Public Works Director

Ron Walker, Public Works Director, provided a report for the Council.

Brian Laurensen, with Larry Walker Associates, Inc., introduced himself to the Council.

Public Comment was opened and closed without any speakers.

MOTION: 1) APPROVE AGREEMENT; AND 2) AUTHORIZE THE CITY MANAGER TO SIGN THE AGREEMENT.
(MOTION: SANTANA; SECOND: GHAG)

VOTE: MOTION PASSED UNANIMOUSLY

6. Approval of Pavement Crack Seal Machine Purchase
Ron Walker, Public Works Director

Ron Walker, Public Works Director, provided a report for the Council.

The following member of the public submitted a written public comment: Dale Carlson.

Council action: This item was pulled and will return at a future meeting.

*Clerk's Note: Public Comment was not read due to the item being pulled and moved to a future meeting.

ITEMS REMOVED FROM THE CONSENT AGENDA FOR COUNCIL CONSIDERATION AND ACTION

There were no items removed from the Consent Agenda for Council consideration and action.

UPDATES AND ANNOUNCEMENTS FROM THE CITY ATTORNEY AND CITY MANAGER

Brant Bordsen, Assistant City Attorney, informed the Council of amendments to the Levine Act.

COUNCILMEMBER COMMENTS

ADJOURNMENT

Mayor Woten adjourned the meeting at 7:12 pm.

Bob Woten, Mayor

ATTEST:

Clarissa Menchaca, City Clerk



**City of Live Oak
Report to City Council**

Meeting Date: October 18, 2023
Title: City Projects Update
Contact Information: Ron Walker, Public Works Director

Background:

1. Pennington Road - West Project: For members of the public that have questions and/or concerns, an information line and website have been set up. The information telephone number is (530) 557-2023. City staff has performed a project walk-through with the project management company and the construction company to look for items that have not been completed according to the contract yet. A very small punch list has been developed and discussed with the contractor. Included in the list is a few feet of curb work yet to be completed.
2. Pennington - East Project: Plans at 90%. Specifications and Estimate at 90%. Staff will update the city council at the October 18, 2023, City Council meeting, and ask the Council to authorize staff to advertise for bids.
3. P Street Lift Station Improvement Project: Staff will update as funds become available.
4. Wastewater Treatment Plant Solar Project: A draft proposal for project management services has been rejected by the City Attorney. Staff has contacted the design company for alternatives.
5. Wastewater Treatment Plant Headworks Rehabilitation Project: Staff will update as funds become available.
6. Well 7 and Well 4 Generator Grant Project: Staff will update as funds become available.
7. Customer Complaint Project: City Clerk, Clarissa Menchaca has been working with the Granicus team for the set-up, training, and implementation of the system. We have been assigned a project manager and have a call on October 16, 2023, to schedule the kickoff meeting. OneView is expected to be completed within the next 3-6 months.
8. Welcome to Live Oak Signs: City staff has received an updated package from Arrow Sign Co. The city engineering staff will continue working on the project as time allows, but this project is fourth in line behind three other projects.
9. Streets Master Plan: Staff will update as funds become available.
10. Dog Park: The City Parks and Recreation Department is planning on starting this project sometime in October of this year and completing the project sometime in April of next year. Staff has already received bids for the fencing.

Analysis:

This report is a City Projects Update.

Fiscal Impacts:

None.

Recommendation:

Receive and file.



City of Live Oak Report to City Council

Meeting Date:	October 18, 2023
Title:	Approval of New Contract with Raney Planning and Management, Inc. for Staff and Project Based Planning Services
Contact Information:	Aaron Palmer, City Manager
Location:	City Wide
Background:	Earlier this year, Raney Planning and Management, Inc. (Raney Planning) informed the City that they wanted to get back to their core service of providing project planning services. They desired to move away from providing day-to-day staffing services for planning departments. The City hired Raney Planning in December 2017 to provide day-to-day contract staff planning services. The City included in the Fiscal Year 2023-24 Budget a full-time Senior Planner to take over the day-to-day planning duties. The City is actively recruiting for this position. Raney Planning will continue to perform the day-to-day planning services until a senior planner has been hired.
Fiscal Impacts:	Raney Planning's hourly charges are provided in their proposal. The average number of staff hours they billed over the last 12 months was 42 hours per month for general planning services. Any special projects are billed to specific project or grant funding.
Recommendation:	Approve a new services contract with Raney Planning and Management, Inc. for staff and project based planning services.
Attachments:	

[City of Live Oak Planning Services Scope of Work](#)

June 1, 2023

Aaron Palmer, City Manager
City of Live Oak
9955 Live Oak Blvd.
Live Oak, CA 95953

Re: Scope of Work to Provide On-Call Planning Services for the City of Live Oak

Dear Mr. Palmer:

On behalf of Raney, a division of Raney Planning & Management, Inc., I am pleased to submit the following scope of services for on-call planning services in the City of Live Oak, California.

PROPOSED APPROACH TO PROVIDING PLANNING SERVICES

Senior Planner, Kevin Valente, AICP has served as the City of Live Oak Planning Manager since 2017 and the current pm-call planning services contract will expire on June 30, 2023. The City is in the process of hiring a new Planning Manager or Senior Planner. Raney has provided the following scope of work to provide on-call planning services.

Raney is proposing to provide on-call planning services for the City of Live Oak including training and guiding the new Planning Manager or Senior Planner during this transition and the processing of development applications as determined by the City of Live Oak.

Raney's approach to providing planning services is to work closely with City planning staff in order to facilitate the development review process and encourage economic development. Raney will review and process development applications in a timely fashion that is both transparent and consistent with City policies, as well as implement policy direction from the City Council. As an extension of City planning staff, Raney will be dedicated to the needs of the City. For active applications, Raney will have a schedule and plan in place that clearly outlines the steps necessary to complete the planning review. Raney will attend City staff meetings as needed, provide updates on projects, identify upcoming issues and offer potential solutions. Raney is experienced in working in a collaborative manner and will identify the most effective and efficient plan to accomplishing the goals and objectives of the City.

As directed by the City Manager, Raney will develop a project-based budget for each assignment that allows the City to recover any project-related costs by billing the project applicant against the project. A scope, schedule, and budget will be prepared and approved by the City Manager for each of these types of projects and invoices to the City will clearly identify the project and work accomplished. The tasks will be summarized in the Technical Scope of Services and costs by task will be included in a cost spreadsheet. The costs will be based on the estimates of time for each task provided in the chart. Costs will be billed on a time and materials basis up to the maximum established budget for each phase, following Raney standard billing rates as outlined in *Attachment A: Raney 2023 Billing Rates*.

DEVELOPMENT APPLICATION PLANNING SERVICES

The following describes the process by which Raney typically follows to provide planning services for projects involving entitlement reviews/requests or application processing.

Project Initiation

The objective of this task is to coordinate with City staff to receive all project information related to the project for planning services. In addition, Raney will establish communication protocols and budget for the processing of the project and provide a project-specific scope of work.

Application Review

The objective of this task is to perform a site visit, if necessary, and review the applicant's application materials for completeness and consistency with the City's adopted plans and policies as well as State Law requirements. In addition, Raney will review the project against applicable zoning requirements. If required, Raney will prepare a Letter of Completeness/Incompleteness to the applicant following the application review. If a Letter of Incompleteness is necessary for a project, Raney would work with the applicant to resolve the issues, as needed. Additionally, Raney will coordinate with City staff to route the application to appropriate City departments and outside responsible agencies for review. In addition, Raney would coordinate with the City to determine whether CEQA documentation is required.

Agency Coordination

The objective of this task is to coordinate with outside agencies, if necessary, and appropriate departments and agencies such as City Departments and public service providers, including LAFCo if necessary, throughout processing of the project to ensure all requirements are met.

Prepare Staff Reports and Other Required Documentation for Entitlement Activities

The objective of this task is to summarize the findings of the application review and required conditions of approval and to prepare the necessary staff reports for hearings, including ordinances and resolutions. Raney would prepare staff reports in the standard City format that contain all required findings, conditions of approval, ordinances, and resolutions. Raney would submit draft staff reports to the City for review prior to the public hearings, as well as revise the draft staff reports pursuant to City comments, if necessary.

Prepare Public Noticing

The objective of this task is to prepare the required noticing for the project approval hearing before the hearing on the project. Raney will coordinate with City staff to ensure the noticing is provided in accordance with California Government Code requirements and standard City processes.

Project Management, Meetings, and Hearings

The objective of this task is to ensure close, extensive coordination and interaction with City staff and the project team, as well as attend any meetings and hearings during the course of the project, as required. In addition, as part of project management, Raney would assist the applicant to address and resolve any issues that may arise during the projects review, as well as any public inquiries regarding the proposed project.

Other Planning Services

Depending on the type of project Raney has been asked to review, additional tasks may be necessary. For example, a project requiring a Development Agreement may require Raney to

negotiate the terms on behalf of City staff and to coordinate extensively with the City Attorney. A project requiring an annexation, may require coordination with LAFCo to ensure all LAFCo issues are addressed, and could even include the preparation of the annexation application or Plan for Services, as needed. Raney would coordinate with City staff at the project initiation step and include any of the other planning services needed specific to each project are included in the scope of work for each project.

Thank you for the opportunity to submit our scope of services for your consideration. We look forward to the continued opportunity to work with you and provide on-call planning services to the City of Live Oak. Please do not hesitate to contact me if you have any questions regarding this proposal.

Sincerely,

Kevin Valente, AICP, Senior Planner
Raney Planning & Management, Inc.
kvalente@raneymanagement.com

Attachment A: Raney 2023 Billing Rates

ATTACHMENT A

Raney 2023 Billing Rates

ENVIRONMENTAL AND PLANNING 2023 BILLING RATES

The following is a summary of Raney, a division of Raney Planning & Management, Inc., Billing Rates for the provision of environmental and planning services. Please note that Raney will provide a complete scope of services and cost estimate by task based on hours, upon request.

Tim Raney, AICP, President	\$235/hour
Cindy Gnos, AICP, Senior Vice President	\$215/hour
Nick Pappani, Vice President	\$195/hour
Rod Stinson, Vice President	\$195/hour
Angela DaRosa, Division Manager	\$175/hour
Kevin Valente, AICP, Senior Associate	\$155/hour
Associate	\$135/hour
Administrative	\$85/hour

AIR QUALITY 2023 BILLING RATES

The following is a summary of the Billing Rates for the provision of air quality and GHG analysis services. Please note that Raney will provide a complete scope of services and cost estimate by task based on hours, upon request.

Rod Stinson, Air Quality Specialist	\$175/hour
Angela DaRosa, Air Quality Specialist	\$175/hour
Air Quality Technician	\$155/hour

OTHER COST INFORMATION

- Overhead charges for technical sub-consultants, travel, and copying/printing: 10%
- Travel: Billed at cost
 - It should be noted that Raney charges mileage at the Federal Standard Mileage Rate provided by the IRS.
- Copying and Printing: Billed at cost
 - Black & White (8.5" x 11"): 15¢/per page
 - Color (8.5" x 11"): 30¢/per page



City of Live Oak Report to City Council

Meeting Date:	October 18, 2023
Title:	Ad Hoc Committee on Sheriff's Contract Discussion
Contact Information:	Aaron Palmer, City Manager
Location:	City wide
Background:	The Mayor established and Ad Hoc Committee to work with the County to establish a new contract for police services.
Analysis:	Direction will be given to the Committee as to what the City Council would like to see in the new police services contract.
Fiscal Impacts:	None at this time.
Recommendation:	Ad Hoc Committee on the Sheriff's Contract will give an update on the contract status. Also, the Council will discuss with the committee their ideas for items to be included in the new contract.



City of Live Oak Report to City Council

Meeting Date:	October 18, 2023
Title:	City Council Consideration to Advertise for Bids for City of Live Oak Pennington Road East Overlay Project
Contact Information:	Scott Rolls, City Engineer
Location:	Pennington Road, East of Highway 99 and Ryan Way
Background:	During budget and Capital Improvement Project discussions in May, the City Council directed staff to prioritize the improvement of Pennington Road east of Orchard Way, in front of the Middle School. Due to issues with the width of existing right-of-way on the north side of the street and the future plans to rehabilitate and potentially relocate the Pennington Road Sewer Lift Station, staff recommended an overlay rather than a complete streets type of reconstruction. The Pennington Road East Overlay Project includes an overlay of Pennington Road from Orchard Way to east of J Street, curb ramp, curb, gutter and sidewalk and striping improvements on Pennington Road from Orchard Way east of J Street, pavement grinding and overlay of Pennington Road from the east end of the highway pavement improvements through the Larkin Road intersection, striping improvements from the east end of the highway pavement improvements through the Larkin Road intersection, and improving the Ryan Way alley between Ivy Street and Kola Street from the highway to Larkin Road.
Fiscal Impacts:	The estimated construction and engineering cost is \$478,000. Project funding is local street funding.
Recommendation:	Authorize the City Engineer to advertise the City of Live Oak Pennington Road East Overlay Project.
Attachments:	

[Pennington Road Overlay Project - East](#)

CITY OF LIVE OAK

SUTTER COUNTY, CALIFORNIA

PENNINGTON ROAD OVERLAY PROJECT - EAST

OCTOBER, 2023

CITY COUNCIL

BOB WOTEN, MAYOR

JERAMY CHAPDELAINE, VICE MAYOR

LAKHVIR S. GHAG

NANCY SANTANA

ASHLEY HERNANDEZ

CITY MANAGER

AARON PALMER

GENERAL NOTES

- ALL CONSTRUCTION SHALL CONFORM TO THE PROJECT PLANS, SPECIFICATIONS AND THE CITY OF LIVE OAK IMPROVEMENT STANDARDS. WHERE THE PLANS AND SPECIFICATIONS DO NOT AGREE WITH THE CITY OF LIVE OAK IMPROVEMENT STANDARDS, THE PLANS AND SPECIFICATIONS SHALL GOVERN.
- THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA NORTH) AT 811 AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ANY MONUMENTS DISTURBED, DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY A LICENSED LAND SURVEYOR OR REGISTERED ENGINEER LICENSED TO PERFORM LAND SURVEYING AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL APPLY EITHER WATER OR DUST PALLATIVE OR BOTH FOR THE ALLEVATION OF DUST NUISANCE AS DIRECTED BY THE ENGINEER.
- THE CITY MAY TEST COMPACTION AT ANY LOCATION IN AREAS TO BE COMPACTED. THE CONTRACTOR SHALL PAY THE COST OF ALL FAILED TESTS.
- THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR AT (530) 895-1422 AT LEAST 48 HOURS PRIOR TO BEGINNING OR RESUMING WORK, TRENCHING OR BACKFILLING OPERATIONS, AND CONCRETE PLACEMENT.
- THE CONTRACTOR SHALL COORDINATE ALL WORK ON THIS PROJECT WITH THE PUBLIC WORKS SUPERVISOR AT (530) 695-2112 EXT. 132. IN CASE OF EMERGENCY, THE CONTRACTOR SHALL NOTIFY THE CITY OF LIVE OAK POLICE DEPARTMENT OFFICE (911).
- LOW OVERHEAD POWER AND TELEPHONE FACILITIES EXIST ADJACENT TO THE PROJECT WORK AREA. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO AVOID THE OVERHEAD FACILITIES, AND SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED FACILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND IMPROVEMENTS WITHIN AND ADJACENT TO THE PROJECT AREA. ANY EXISTING UTILITIES OR IMPROVEMENTS THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

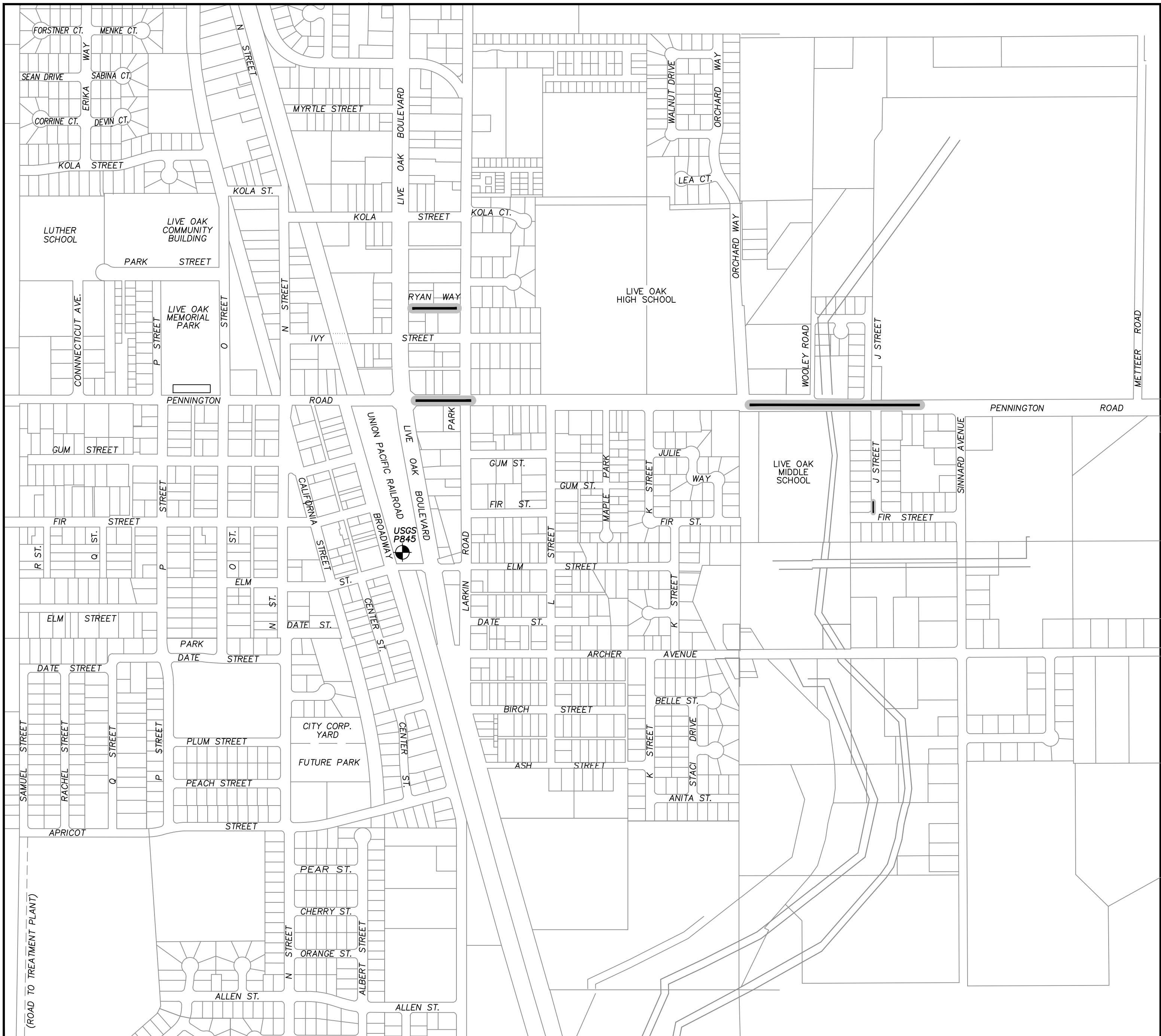
APPROVED BY :

SCOTT R. ROLLS, , RCE 62640

CITY ENGINEER

REGISTRATION EXPIRES: 6-30-24

DATE: _____



LOCATION MAP

NO SCALE

Prepared by

RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-0811
TELEPHONE 530-895-1422

SHEET INDEX

- TITLE SHEET
- PLAN AND PROFILE - STA. 1+00 TO STA. 6+00
- PLAN AND PROFILE - STA. 6+00 TO STA. 11+00
- PLAN AND PROFILE - STA. 11+00 TO STA. 14+50
- PLAN AND PROFILE - RYAN WAY
- PLAN AND PROFILE - STA. 50+00 TO STA. 53+00
- ROAD RESURFACING DETAIL - STA:1:00 TO 14+50
- GRADING DETAIL - STA:1:00 TO 14+50
- STRIPING PLAN - STA. 1+00 TO STA. 14+50
- STRIPING PLAN - STA. 50+00 TO STA. 53+00
- EROSION AND SEDIMENT CONTROL PLAN - STA. 1+00 TO 14+50
- EROSION AND SEDIMENT CONTROL PLAN - RYAN WAY
- EROSION AND SEDIMENT CONTROL PLAN - STA. 50+00 TO STA. 53+00
- DETAILS

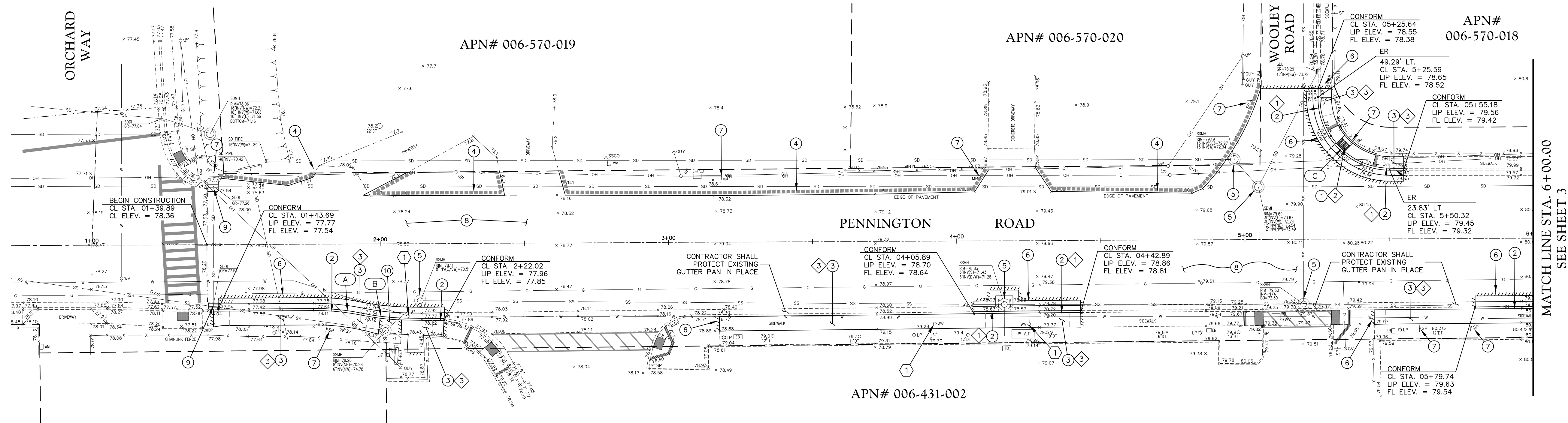
BENCHMARK

BENCHMARK IS U.S. COAST AND GEODETIC SURVEY BENCHMARK, DESIGNATION P845, BRASS DISK 171- FEET NORTH OF THE CENTERLINE OF ELM STREET, 41- FEET EAST OF THE CENTERLINE OF BROADWAY, 9- FEET NORTHEAST OF A FOUR- FOOT DIAMETER PALM TREE AND 2 1/2- FEET SOUTH OF A STEEL WITNESS POST PROJECTING 0.2- FEET ELEVATION 77.55 N.A.V.D. 88.

LEGEND

---	EXISTING PROPERTY LINE	GP	EXISTING GATE POST
----	EXISTING EDGE OF CONCRETE	SDCB	EXISTING STORM DRAIN CATCH BASIN
----	EXISTING EDGE OF ASPHALT PAVEMENT	PDL	EXISTING STREET PADDLE
SD	EXISTING STORM DRAIN	SKSP	EXISTING STUDENT KING SIGNAL POST
SS	EXISTING SANITARY SEWER	SDMH	EXISTING STORM DRAIN MANHOLE
W	EXISTING WATER MAIN/SERVICE	E-PED	EXISTING ELECTRICAL PEDESTAL
G	EXISTING GAS MAIN/SERVICE (PER USA MARKINGS)	TB	EXISTING TELEPHONE BOX
OH	EXISTING OVERHEAD UTILITY LINES	DT 12"	EXISTING TREE TYPE AND SIZE
---	EXISTING CENTERLINE	DT	DECIDUOUS TREE
---	EXISTING ROADWAY STRIPPING	PA	PALM TREE
X X	EXISTING FENCE	CT	CONIFER TREE
---	EXISTING ASPHALT OVERLAY SEAM	SS UFT	EXISTING SANITARY SEWER LIFT STATION
---	EXISTING DRAINAGE FLOW	Q UP	EXISTING LIGHT POST
+ 77.68	EXISTING GROUND ELEVATION	---	PROPOSED EDGE OF PAVEMENT
MB	EXISTING MAILBOX	---	PROPOSED SAWCUT
SDOH	EXISTING STORM DRAIN DROP INLET	---	PROPOSED CURB AND GUTTER
SDMH	EXISTING SANITARY SEWER MANHOLE	---	PROPOSED FIRE HYDRANT
GV	EXISTING GAS VALVE	-----	INSTALL CLASS 2 AGGREGATE BASE BACKING 24" WIDE
SP	EXISTING SIGN POST	---	PROPOSED HMA OVERLAY
UP	EXISTING UTILITY POLE	---	PROPOSED RIGHT EDGE LINE STRIPING
GUY	EXISTING GUY WIRE	---	PROPOSED CENTER LINE STRIPING
WV	EXISTING WATER VALVE	*	PROPOSED BLUE REFLECTIVE MARKER
WM	EXISTING WATER METER	78.88	PROPOSED FINISH GRADE
EB	EXISTING ELECTRIC BOX	79.38	PROPOSED TOP OF CURB GRADE
CWBP	EXISTING CROSSWALK BUTTON POST	C	CONFORM
UT-PED	EXISTING UTILITY PEDESTAL	EP	EDGE OF PAVEMENT
SSCO	EXISTING SANITARY SEWER CLEANOUT	GR	GRATE
W-VLT	EXISTING WATER VAULT	---	PROPOSED STORM DRAIN PIPE
WB	EXISTING WATER BOX	---	PROPOSED GRADE BREAK
+	EXISTING BENCHMARK	+	PROPOSED BLUE REFLECTIVE MARKER
		△	EXISTING MONUMENT

CITY OF LIVE OAK -- PENNINGTON ROAD OVERLAY PROJECT -- EAST



CONSTRUCTION NOTES

1. INSTALL CITY OF LIVE OAK STD. 207B RADIAL CURB RAMP, SEE DRAWING NO. 8 FOR ADDITIONAL INFORMATION (1 TOTAL)
2. INSTALL CITY OF LIVE OAK STD. 202 5" BARRIER CURB AND GUTTER, SEE DRAWING NO. 8 FOR ADDITIONAL INFORMATION (183 L.F. ± TOTAL THIS DRAWING)
3. INSTALL CITY OF LIVE OAK STD. 204 CONTIGUOUS SIDEWALK, SEE DRAWING NO. 8 FOR ADDITIONAL INFORMATION (1,411 S.F. ± TOTAL THIS DRAWING)
4. PLACE 2" OF CLASS II AGGREGATE BASE SHOULDER BACKING, 12" WIDE (376 L.F. ± TOTAL)
5. ADJUST EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE (5 TOTAL)
6. PERFORM NEAT SAWCUT, REMOVE AND DISPOSE OF MATERIALS AS NECESSARY
7. PROTECT EXISTING SIGN POST/MAILBOX IN PLACE
8. PLACE 2", 1/2" TYPE "A" HMA PAVING, SEE DRAWING NO. 7 FOR ADDITIONAL INFORMATION
9. PROTECT EXISTING DROP INLET IN PLACE
10. PROTECT EXISTING SANITARY SEWER PUMP STATION IN PLACE

DEMOLITION NOTES

1. REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER (±183 L.F. TOTAL THIS DRAWING)
2. REMOVE AND DISPOSE OF EXISTING CURB RAMP (±62 S.F. TOTAL THIS DRAWING)
3. REMOVE AND DISPOSE OF EXISTING SIDEWALK (±1,468 S.F. TOTAL THIS DRAWING)

FACE OF CURB CURVE DATA

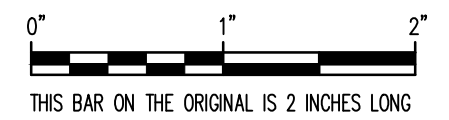
- A R=79.50'
D=12°10'19"
L=16.89'
- B R=79.50'
D=12°05'15"
L=16.77'
- C R=25.00'
D=080°28'45"
L=39.48'

WATER CONSTRUCTION NOTES

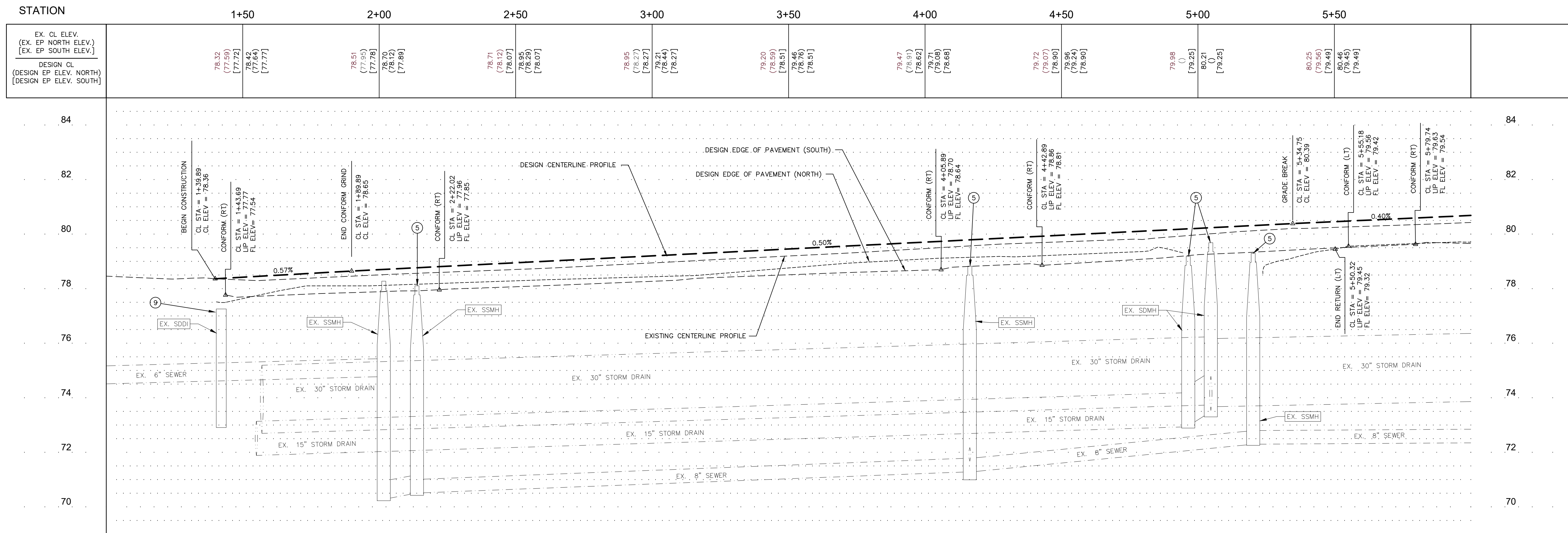
1. ADJUST WATER VALVE FRAME AND COVER TO FINISH GRADE (3 TOTAL)

GENERAL NOTES

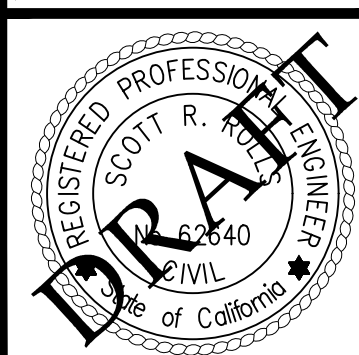
1. SEE TITLE SHEET FOR LEGEND.
2. THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.
3. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 800-227-2600 AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION.



SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



S:\VIA 3D 2022 PROJECTS\2023_10 - Pennington East\2023_10\Pennington East\2023_10\10-14-24.dwg



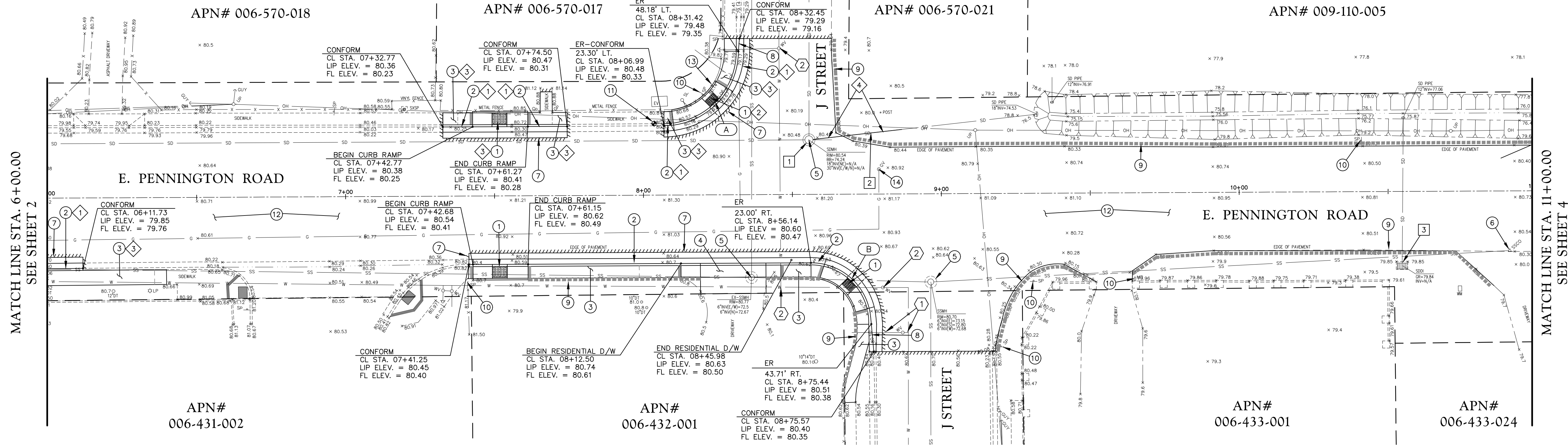
APPROVED
DATE
OCTOBER, 2023

PREPARED FOR:
CITY OF LIVE OAK

RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT - EAST
PLAN AND PROFILE - STA: 1+00 TO STA: 6+00

DESIGNED DJB
DRAWN DLP
CHECKED SRR
DRAWING NO. 2 OF 15
JOB NO. 22033



CONSTRUCTION NOTES

- INSTALL CITY OF LIVE OAK STD. 2078 RADIAL CURB RAMP (2 TOTAL). SEE DRAWING NO. 8 FOR ADDITIONAL INFORMATION
- INSTALL CITY OF LIVE OAK STD. 202 5" BARRIER CURB AND GUTTER (254 L.F. ± TOTAL)
- INSTALL CITY OF LIVE OAK STD. 204 CONTIGUOUS SIDEWALK (789 S.F. ± TOTAL)
- INSTALL CITY OF LIVE OAK STD. 205 RESIDENTIAL DRIVEWAY (255 S.F. ± TOTAL)
- ADJUST EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE (3 TOTAL)
- ADJUST EXISTING SANITARY SEWER CLEANOUT FRAME AND COVER TO FINISH GRADE (1 TOTAL)
- PERFORM NEAT SAWCUT, REMOVE AND DISPOSE OF MATERIALS AS NECESSARY
- INSTALL CITY OF LIVE OAK STD. 203 BARRIER CURB & GUTTER TO ROLLED CURB & GUTTER TRANSITION (+15 L.F. ± TOTAL)
- PLACE 2" OF CLASS II AGGREGATE BASE SHOULDER BACKING, 12" WIDE (452 L.F. ± TOTAL)
- PROTECT EXISTING SIGN POST/MAILBOX IN PLACE
- PROTECT EXISTING BENCHMARK IN PLACE, APPROXIMATE LOCATION. CONTRACTOR SHALL VERIFY LOCATION IN FIELD PRIOR TO CONSTRUCTION COMMENCING
- PLACE 2", 1/2" TYPE "A" HMA PAVING SEE DRAWING NO. 7 FOR ADDITIONAL INFORMATION
- REMOVE 25 L.F. ± OF EXISTING IRON FENCE TO CONSTRUCT RADIAL CURB RAMP, AND REINSTALL 25 L.F. ± OF EXISTING IRON FENCE AFTER INSTALLING RADIAL CURB RAMP
- ADJUST GAS VALVE FRAME AND COVER TO FINISH GRADE (1 TOTAL)

STORM DRAIN CONSTRUCTION NOTES

- POINT OF CONNECTION TO EXISTING STORM DRAIN MANHOLE, CONTRACTOR SHALL POTHOLE LOCATION AND REMOVE AND DISPOSE OF 30 L.F. OF REINFORCED CONCRETE PIPE. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH PRIOR TO ORDERING MATERIALS
- INSTALL 30 LF ± 18" DIA. RCP S.D. PIPE, S = 0.0037
- PROTECT EXISTING STORM DRAIN CATCH BASIN IN PLACE

WATER CONSTRUCTION NOTES

- REMOVE AND DISPOSE OF EXISTING FIRE HYDRANT SERVICE LINE AND TEE (17 L.F. ± TOTAL). SALVAGE EXISTING WATER VALVE AND INSTALL 7 L.F. ± 6" DIA. DUCTILE IRON PIPE
- ADJUST WATER VALVE FRAME AND COVER TO FINISH GRADE (3 TOTAL)

DEMOLITION NOTES

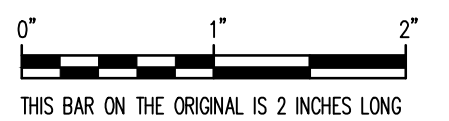
- REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER (±214 L.F. TOTAL)
- REMOVE AND DISPOSE OF EXISTING CURB RAMP (±295 S.F. TOTAL)
- REMOVE AND DISPOSE OF EXISTING SIDEWALK (±485 S.F. TOTAL)
- REMOVE AND DISPOSE OF EXISTING 18" DIA. R.C.P. STORM DRAIN PIPE (±30 L.F. TOTAL)

FACE OF CURB CURVE DATA

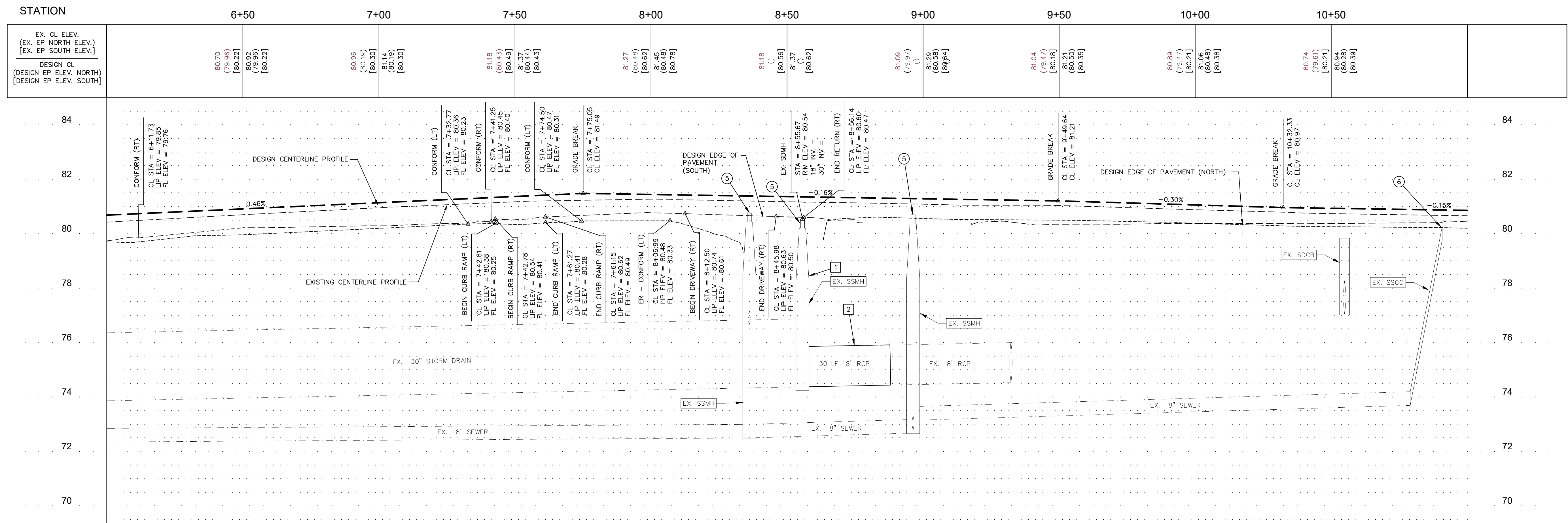
- (A) R=25.00'
D=089°47'24"
L=39.18'
- (B) R=20.00'
D=85°02'48"
L=29.69'

GENERAL NOTES

- SEE TITLE SHEET FOR LEGEND.
- THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 800-227-2600 AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION.

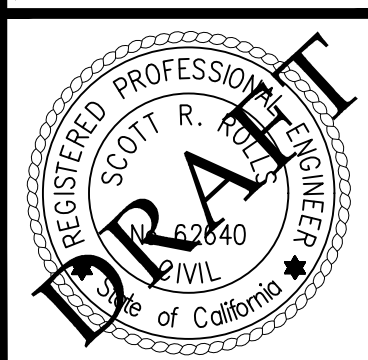


SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



NAVD 88 DATUM

NAVD 88 DATUM



APPROVED
DATE
OCTOBER, 2023

PREPARED FOR :

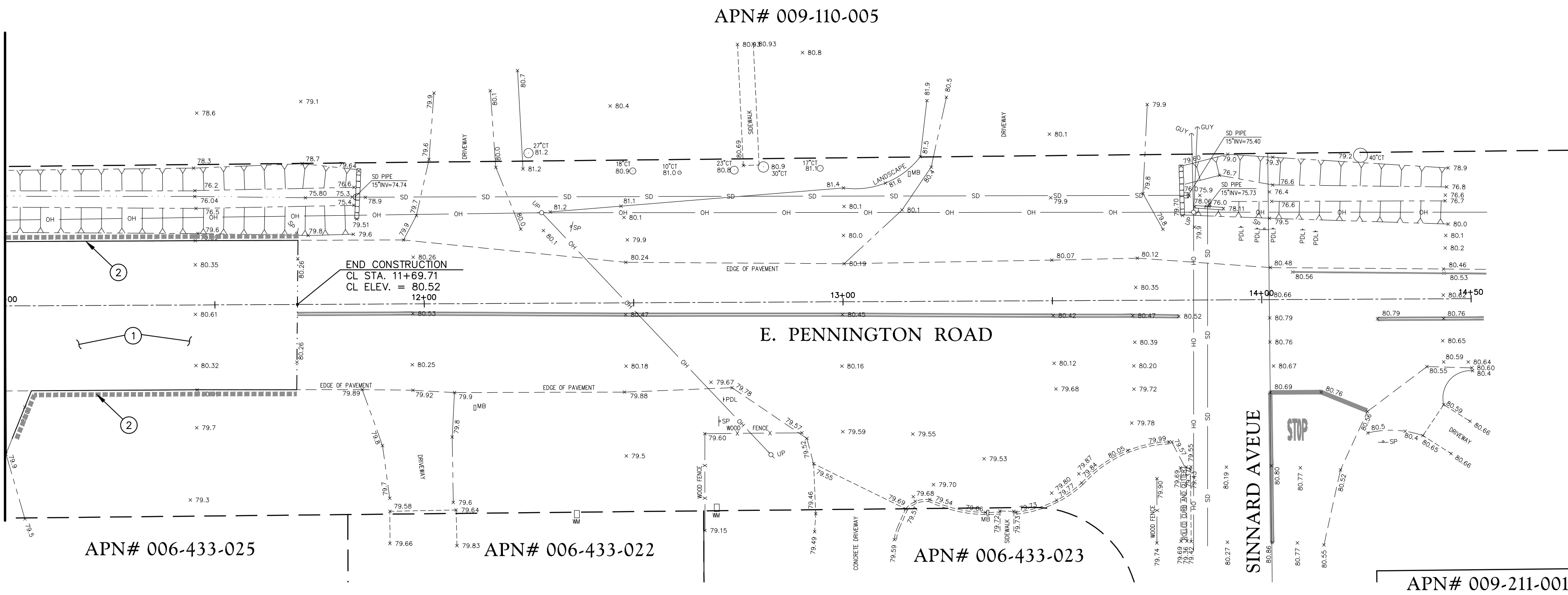
CITY OF LIVE OAK

RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT - EAST
PLAN AND PROFILE - STA. 6+00 TO STA. 11+00

DESIGNED DJB
DRAWN DLP
CHECKED SRR
DRAWING NO. 3 OF 15
JOB NO. 22033

MATCH LINE STA. 11+00.00
SEE SHEET 3



CONSTRUCTION NOTES

1. PLACE 2", 1/2" TYPE "A" HMA PAVING SEE DRAWING NO. 7 FOR ADDITIONAL INFORMATION
2. PLACE 2" OF CLASS II AGGREGATE BASE BACKING, 12" WIDE (144 L.F. ± TOTAL)
3. PLACE BLUE REFLECTIVE MARKER AT CENTERLINE OF ROAD AT FIRE HYDRANT LOCATION (2 TOTAL)

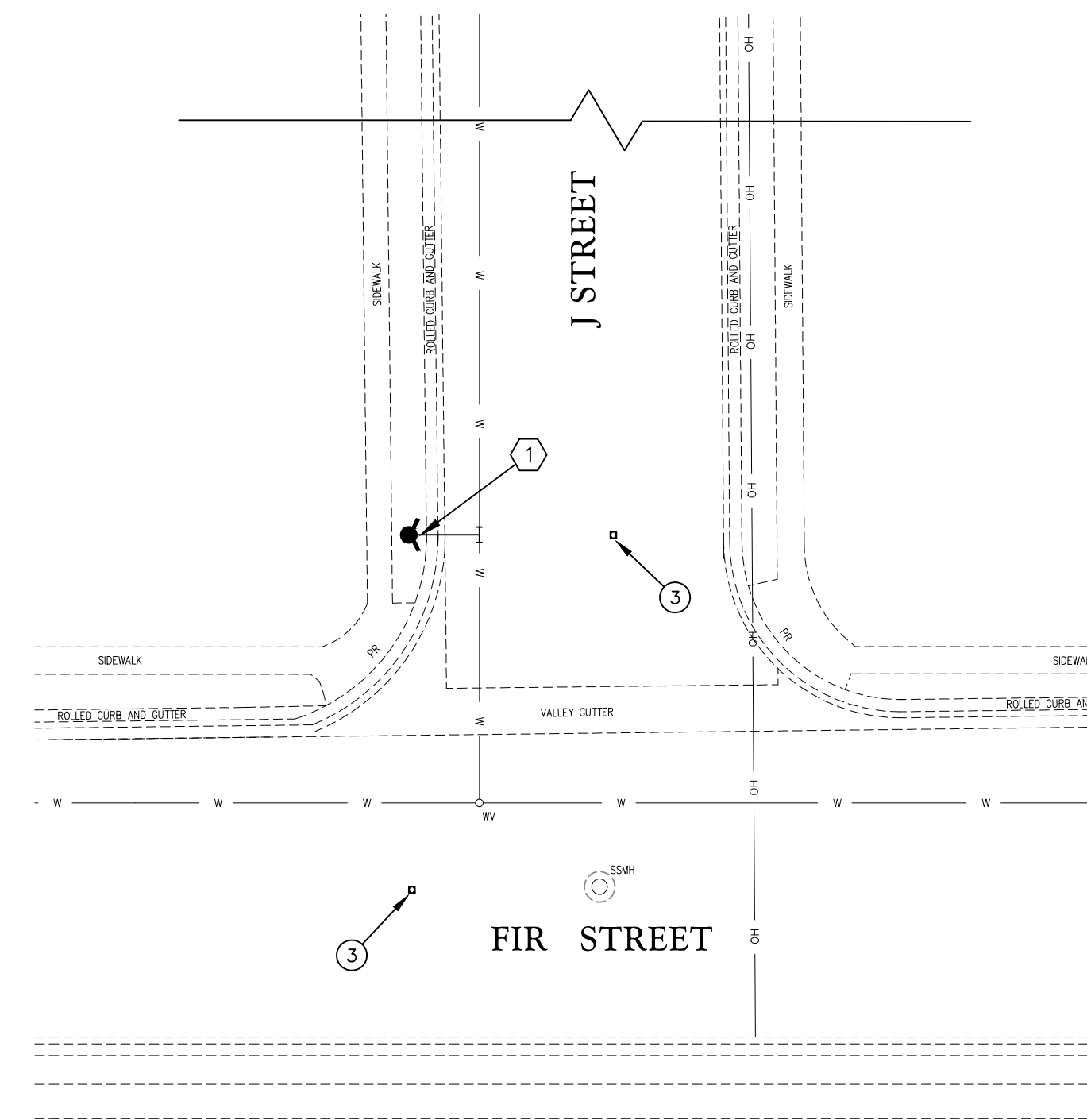
GENERAL NOTES

1. SEE TITLE SHEET FOR LEGEND.
2. THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.
3. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 800-227-2800 AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION.

WATER CONSTRUCTION NOTES

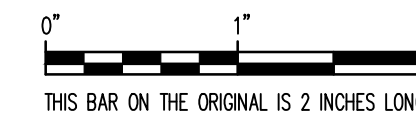
1. INSTALL CITY OF LIVE OAK STD. 301 RESIDENTIAL FIRE HYDRANT PER FIRE HYDRANT DETAIL ON THIS DRAWING

PENNINGTON ROAD

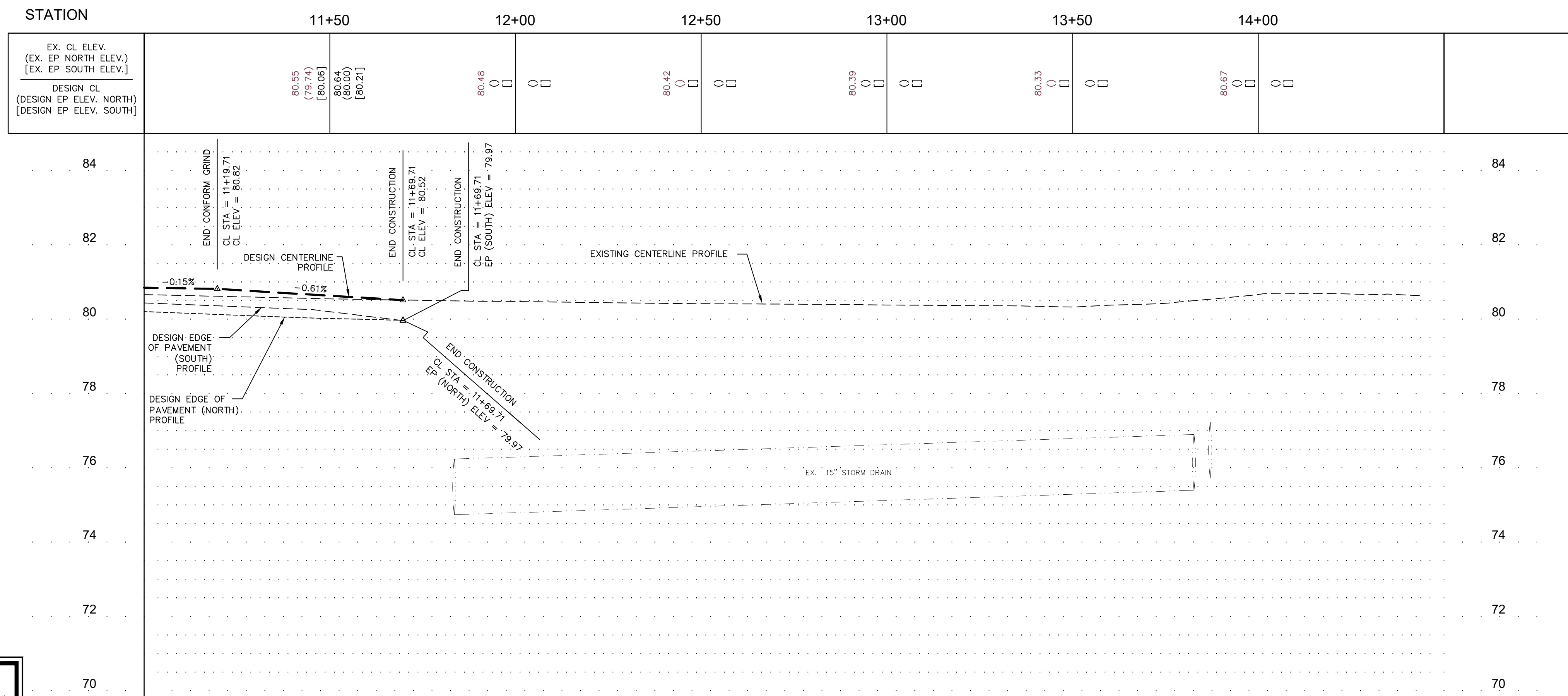


FIRE HYDRANT DETAIL

SCALE: 1" = 20'



SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 2'



APPROVED

DATE

OCTOBER, 2023

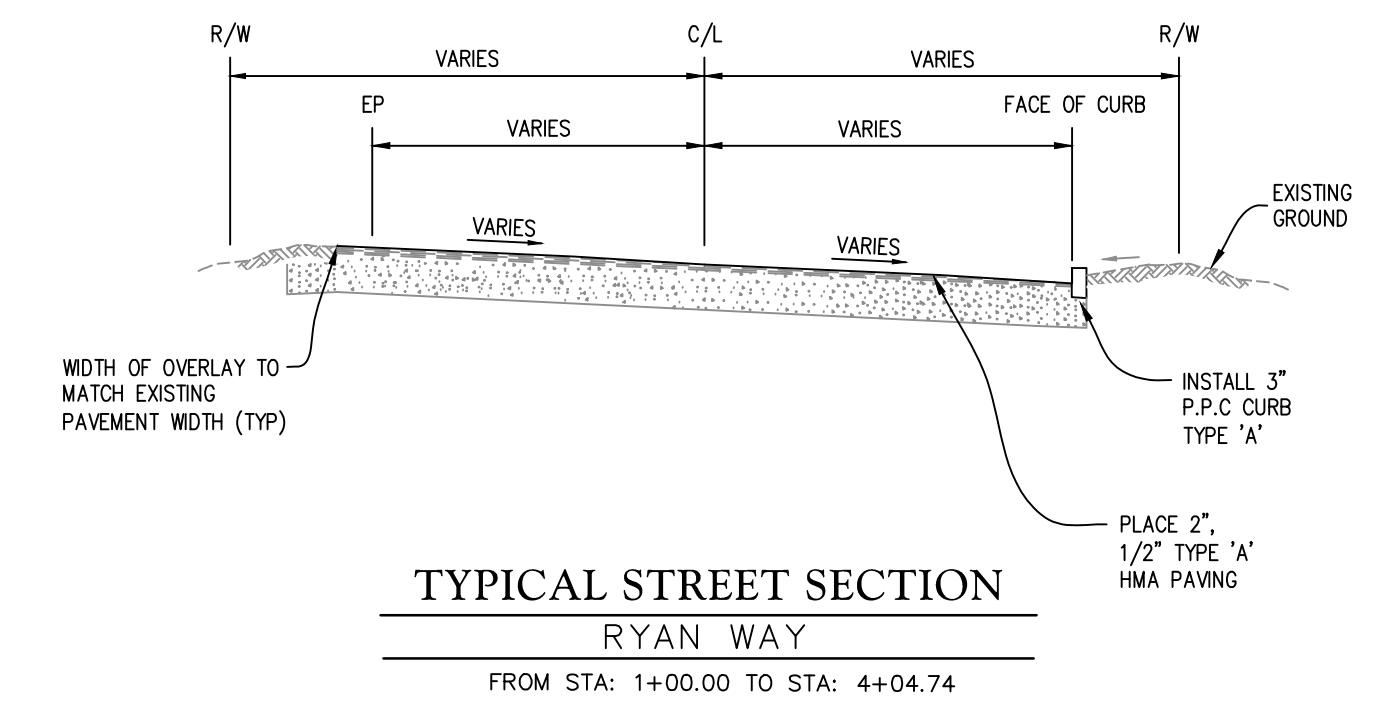
PREPARED FOR :

CITY OF LIVE OAK

RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT - EAST
PLAN AND PROFILE - STA: 11+00 TO STA 14+50

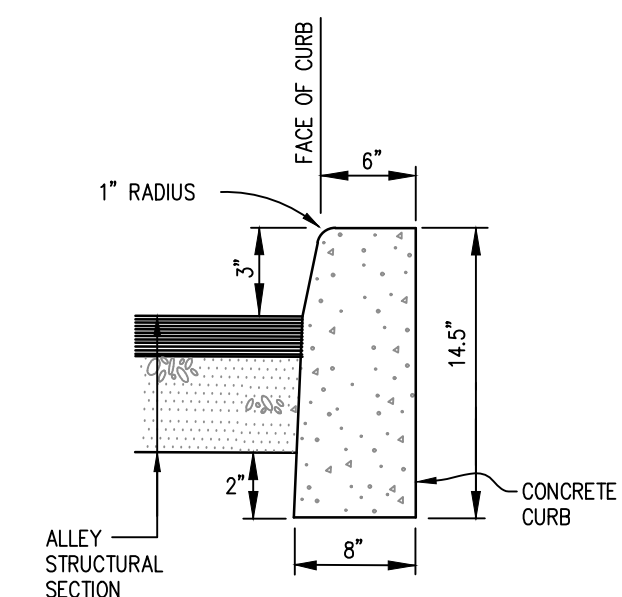
DESIGNED	DJB
DRAWN	DLP
CHECKED	SRR
DRAWING NO.	4 OF 15
JOB NO.	22033



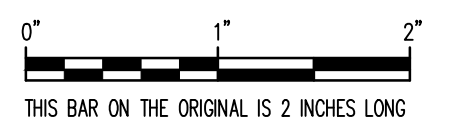
WATER CONSTRUCTION NOTES

- ① ADJUST WATER VALVE FRAME AND COVER TO FINISH GRADE (1 TOTAL)
- ② PROTECT EXISTING FIRE HYDRANT IN PLACE
- ③ PROTECT EXISTING WATER VALVE IN PLACE

1. THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.
2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 800-227-2600 AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION.



DETAIL 'A'
CONCRETE CURB DETAIL
NO SCALE

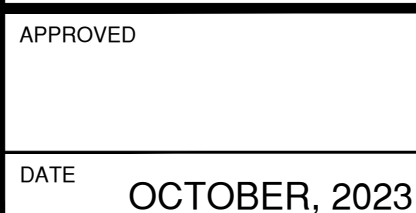


SCALE: HORIZONTAL 1" = 20'
VERTICAL 1" = 2'

Profile view of the proposed road showing elevation (72 to 82) versus stationing. The profile includes a dashed line for the existing ground centerline, a solid line for the design centerline, and a solid line for the design edge of pavement. Key features include grade breaks, design edge of pavement (north and south) profiles, and existing ground centerline profile. Data points for stationing, elevation, and slope are provided for each segment.

Station	CL Elev (N)	EP Elev (S)	Slope (%)
1+00.00	77.47	77.44	0.51%
1+20.00	77.57	77.51	0.39%
1+60.33	77.73	77.69	0.16%
1+92.27	77.72	77.63	0.39%
2+02.22	77.80	77.86	-0.23%
2+41.90	77.81	77.79	-0.20%
2+51.87	77.71	77.64	-0.28%
3+11.81	77.54	77.46	0.36%
3+31.19	77.47	77.40	-0.32%
3+84.79	77.30	77.35	-0.66%
4+04.83	77.12	77.20	-0.86%

NAVD 88 DATUM



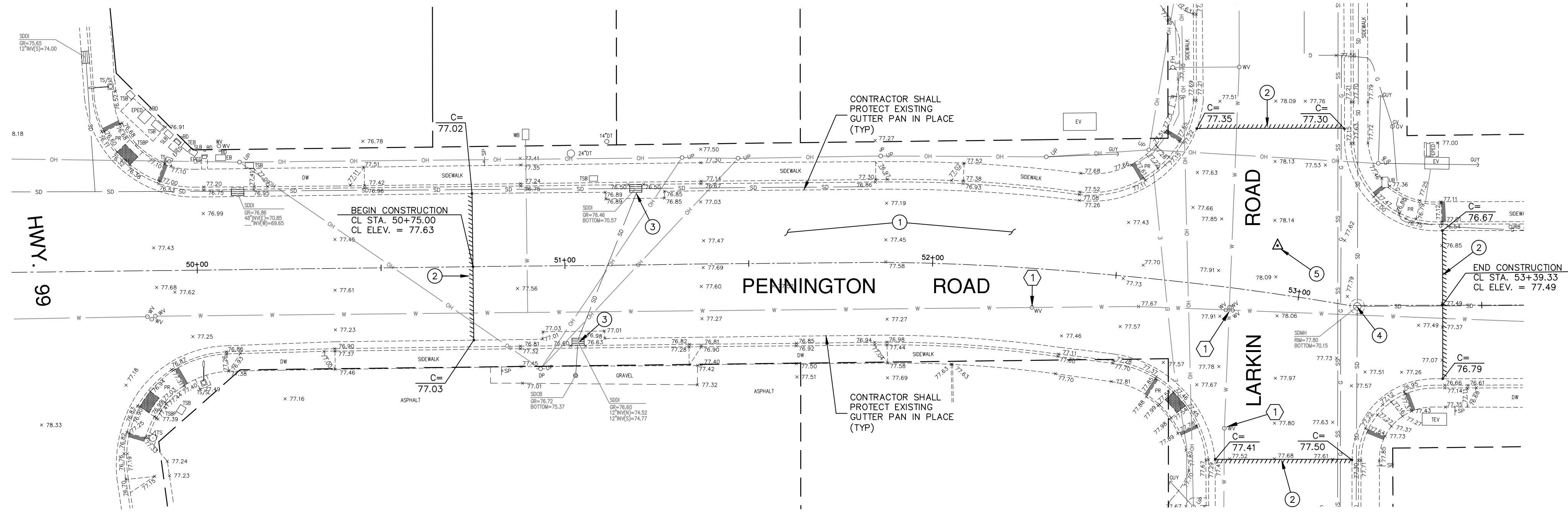
CITY OF LIVE OAK



PENNINGTON ROAD OVERLAY PROJECT - EAST

PLAN AND PROFILE - RYAN WAY

DESIGNED	DJB
DRAWN	DLP
CHECKED	SRR
DRAWING NO.	5 OF 15
JOB NO.	22033



CONSTRUCTION NOTES

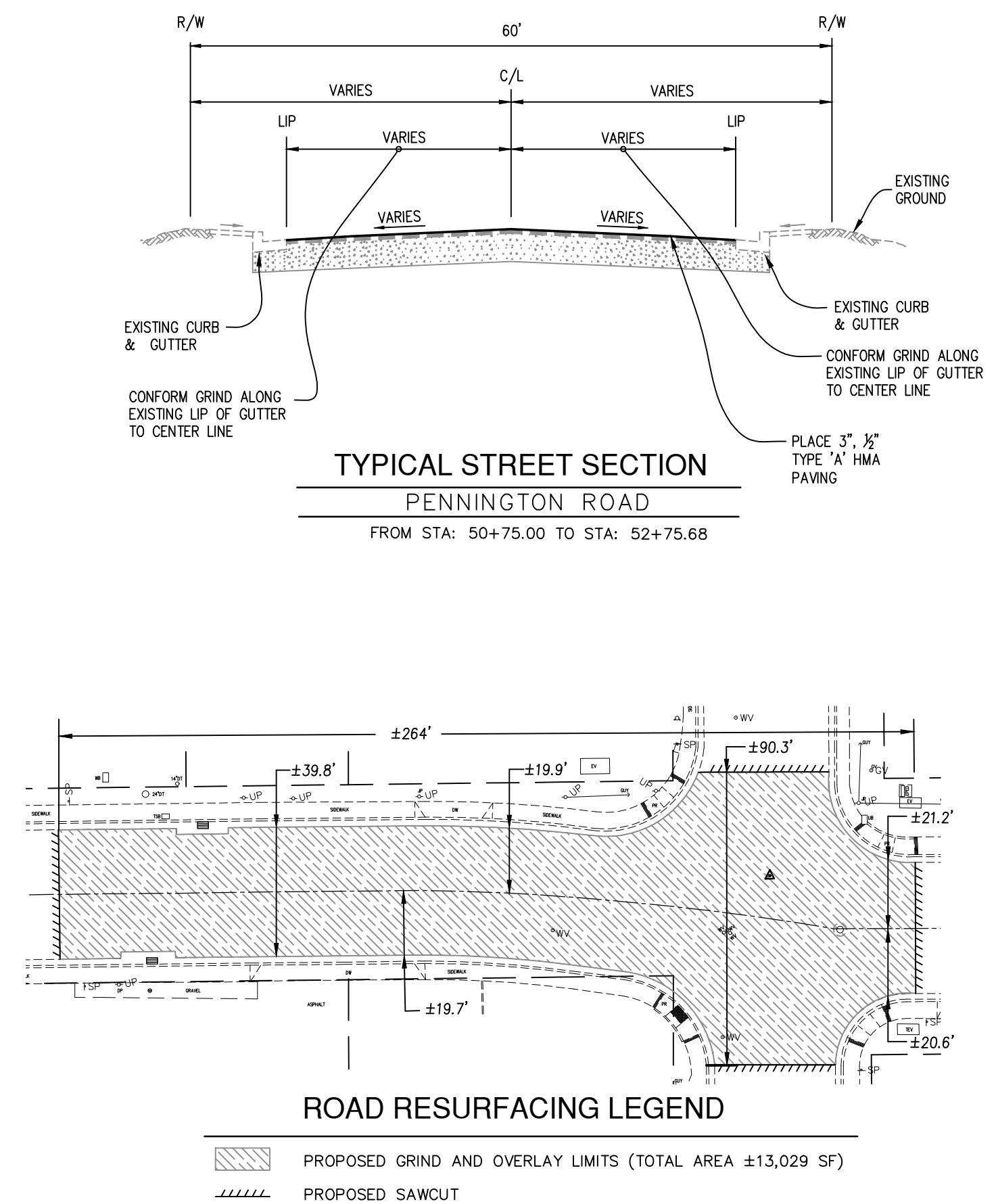
- GRIND EXISTING ASPHALT PAVEMENT, PLACE 3", 1/2" TYPE 'A' HMA (13,029 S.F. ± TOTAL)
- PERFORM NEAT SAWCUT AND REMOVE AND DISPOSE OF EXISTING MATERIALS AS NECESSARY
- PROTECT EXISTING STORM DRAIN DROP INLET IN PLACE
- ADJUST EXISTING MANHOLE FRAME AND COVER TO FINISH GRADE (1 TOTAL)
- ADJUST EXISTING MONUMENT FRAME AND COVER TO FINISH GRADE (1 TOTAL)

WATER CONSTRUCTION NOTES

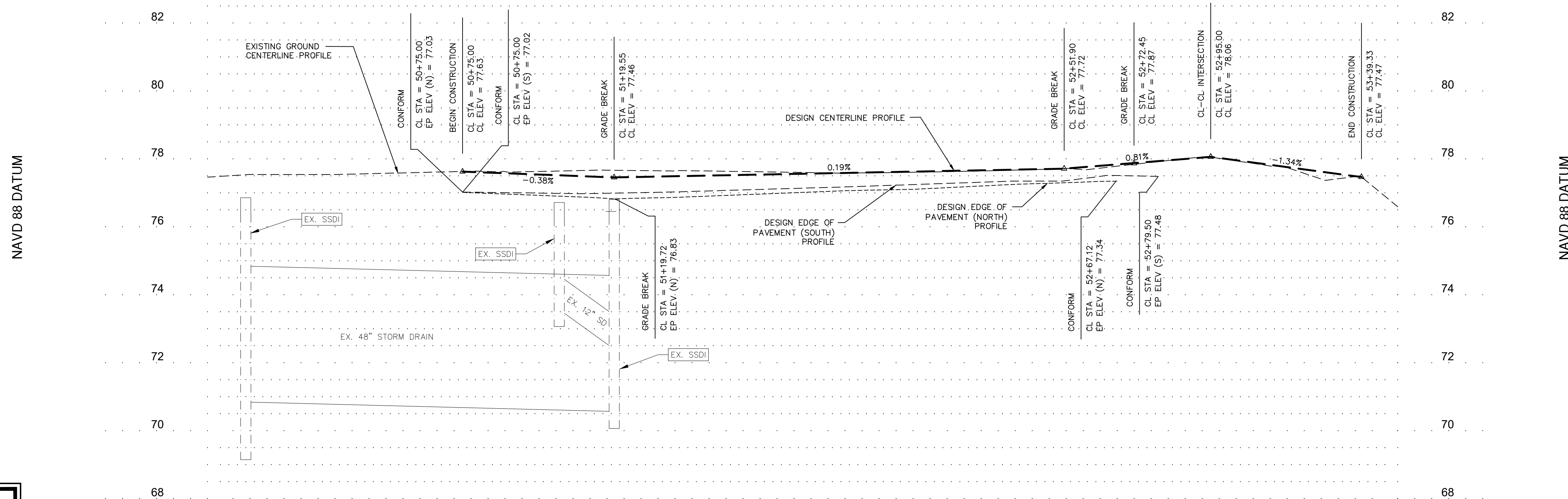
- ADJUST WATER VALVE FRAME AND COVER TO FINISH GRADE (5 TOTAL)

GENERAL NOTES

- THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXISTENCE, LOCATION AND DEPTH PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 800-227-2600 AT LEAST 2 WORKING DAYS PRIOR TO CONSTRUCTION.



STATION	50+50	51+00	51+50	52+00	52+50	53+00
EX. CL ELEV. (EX. EP NORTH ELEV.) (EX. EP SOUTH ELEV.)						
DESIGN CL (DESIGN EP ELEV. NORTH) (DESIGN EP ELEV. SOUTH)	77.58 (77.11) [77.06]	77.64 (76.93) [77.02] 77.53 (76.92) [76.99]	77.64 (76.93) [77.02] 77.53 (76.92) [77.07]	77.60 (77.00) [77.24] 77.65 (77.05) [77.22]	77.71 (77.25) [77.35] 77.71 (77.00) [77.35]	77.98 (77.00) [77.00] 78.00 (77.00) [77.00]



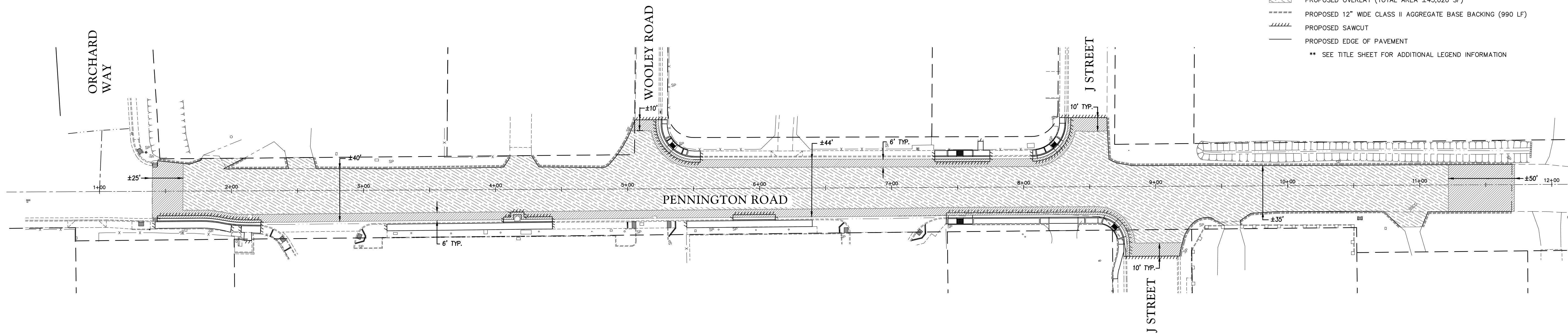
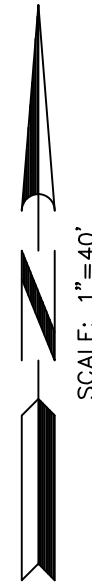
APPROVED
DATE
OCTOBER, 2023

PREPARED FOR :
CITY OF LIVE OAK

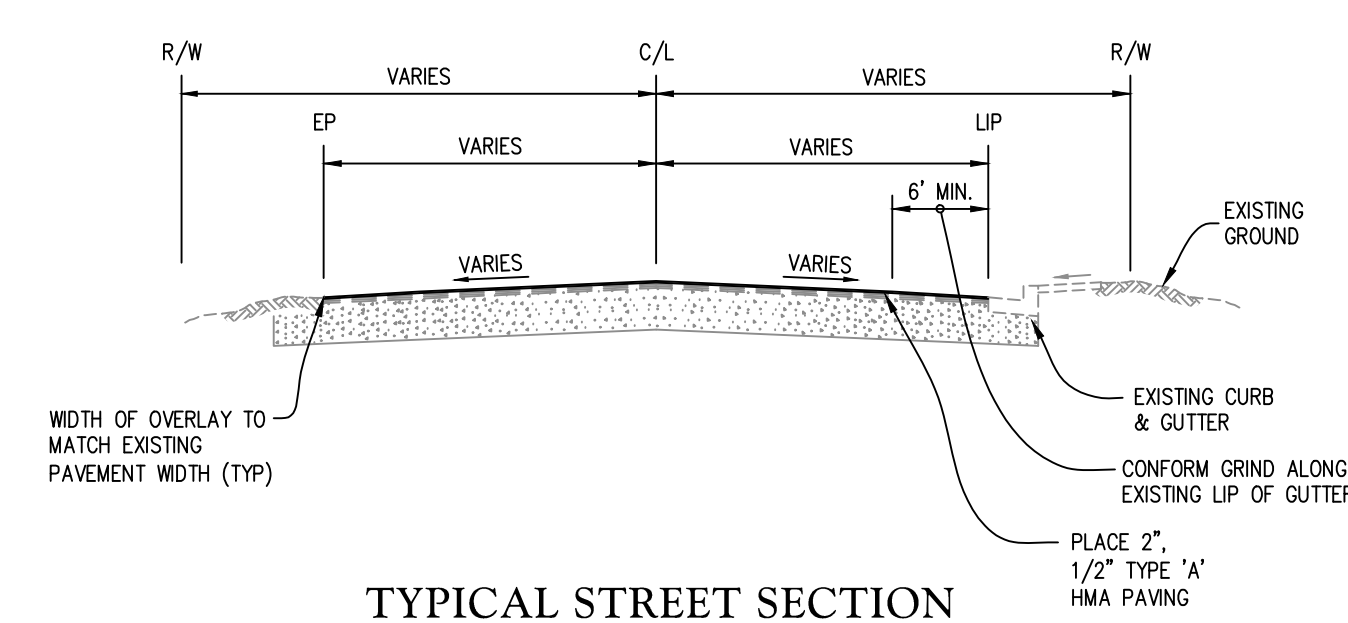
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ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT - EAST
PLAN AND PROFILE - STA. 50+00 TO STA. 53+00

DESIGNED	DJB
DRAWN	CAD
CHECKED	SRR
DRAWING NO.	6 OF 15
JOB NO.	22033

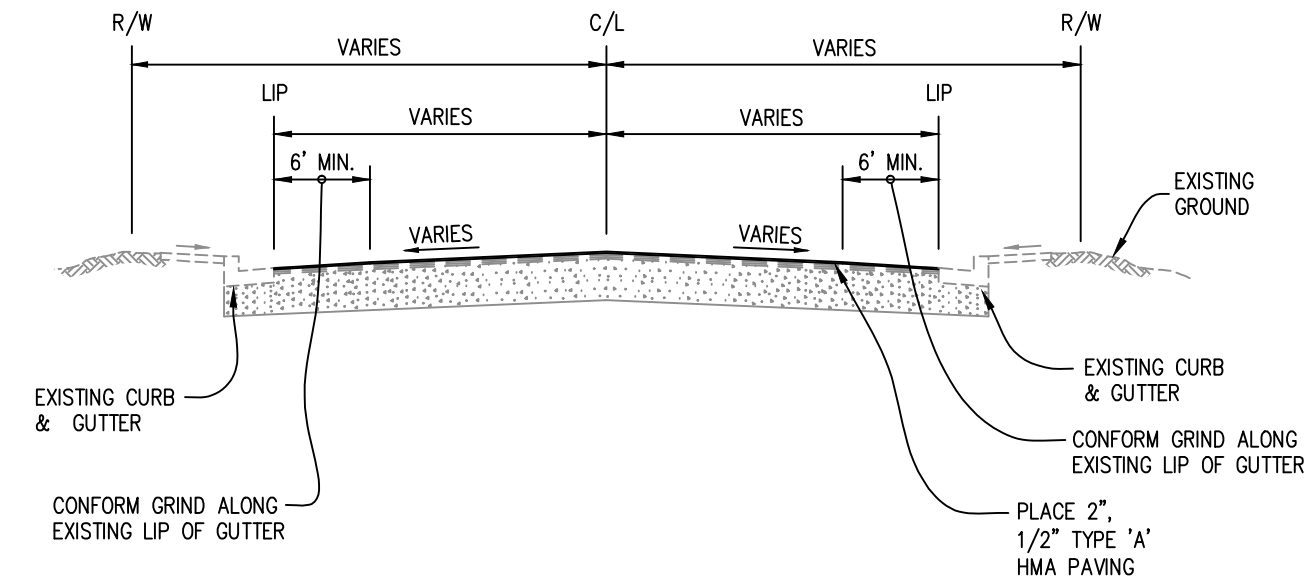


- ROAD RESURFACING LEGEND**
- PROPOSED CONFORM GRIND (TOTAL AREA ±9528 SF)
 - PROPOSED OVERLAY (TOTAL AREA ±45,020 SF)
 - PROPOSED 12" WIDE CLASS II AGGREGATE BASE BACKING (990 LF)
 - PROPOSED SAWCUT
 - PROPOSED EDGE OF PAVEMENT
 - ** SEE TITLE SHEET FOR ADDITIONAL LEGEND INFORMATION



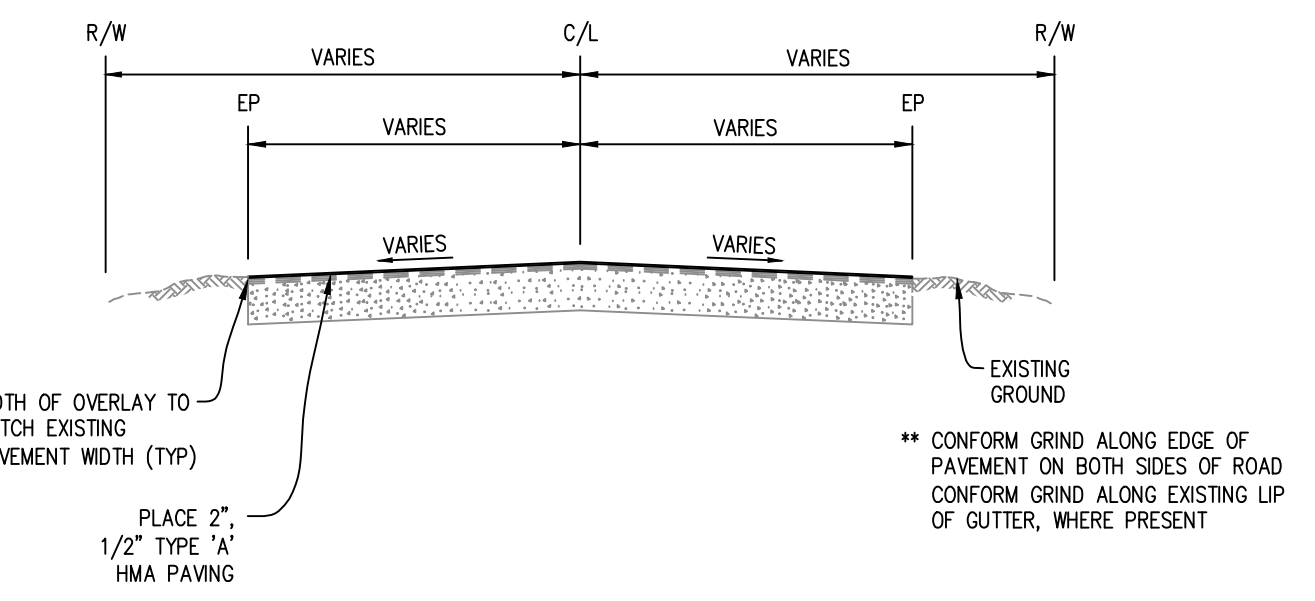
NOTE: CONFORM GRIND AT THE BEGINNING AND ENDING OF EACH STREET. SEE DETAIL BELOW.

TYPICAL STREET SECTION
PENNINGTON ROAD
FROM STA: 1+38.22 TO STA: 5+18.10
&
FROM STA: 8+39.32 TO STA: 8+84.07



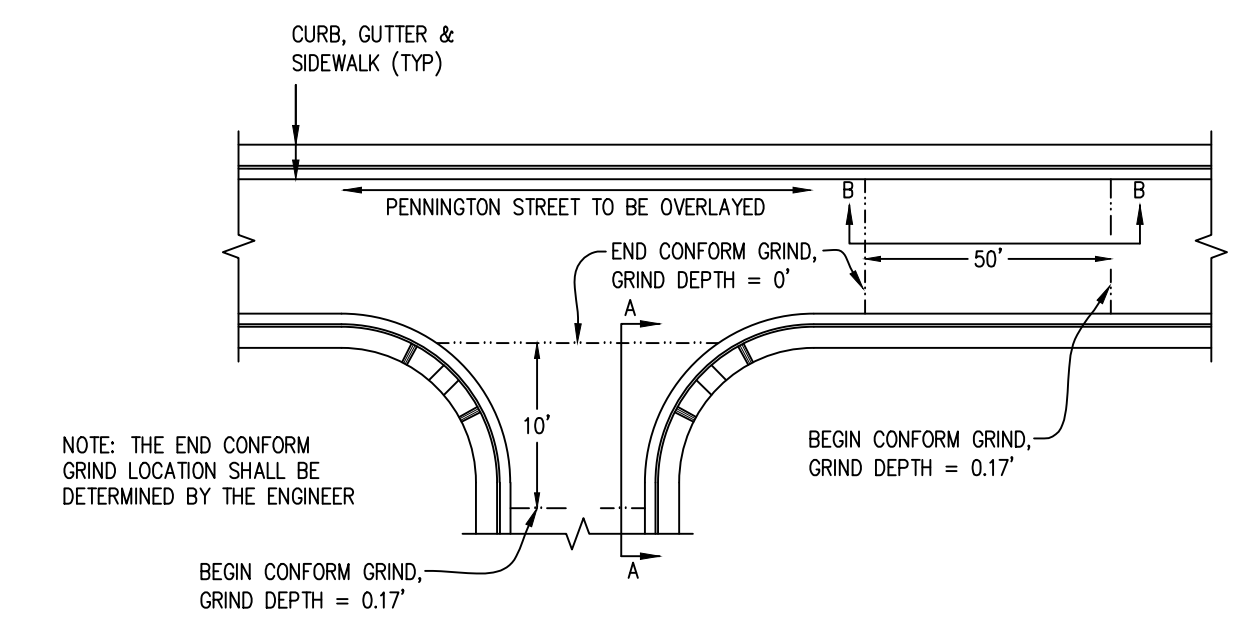
NOTE: CONFORM GRIND AT THE BEGINNING AND ENDING OF EACH STREET. SEE DETAIL BELOW.

TYPICAL STREET SECTION
PENNINGTON ROAD
FROM STA: 5+18.10 TO STA: 8+39.32

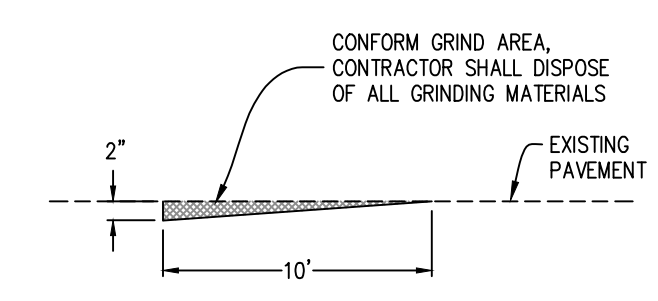


NOTE: CONFORM GRIND AT THE BEGINNING AND ENDING OF EACH STREET. SEE DETAIL BELOW.

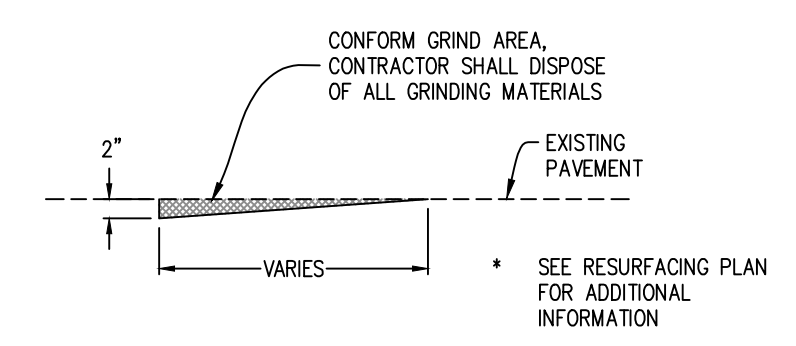
TYPICAL STREET SECTION
PENNINGTON ROAD
FROM STA: 8+84.07 TO STA: 11+71.77



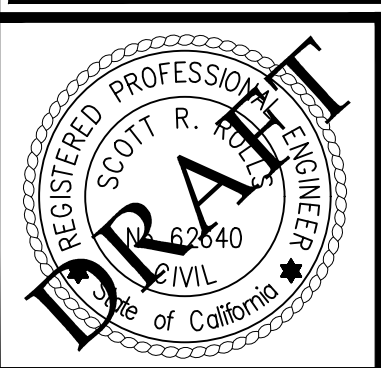
CONFORM GRIND DETAIL
NO SCALE



CONFORM GRIND SECTION
SECTION A-A
NO SCALE



CONFORM GRIND SECTION
SECTION B-B
NO SCALE



APPROVED
DATE
OCTOBER, 2023

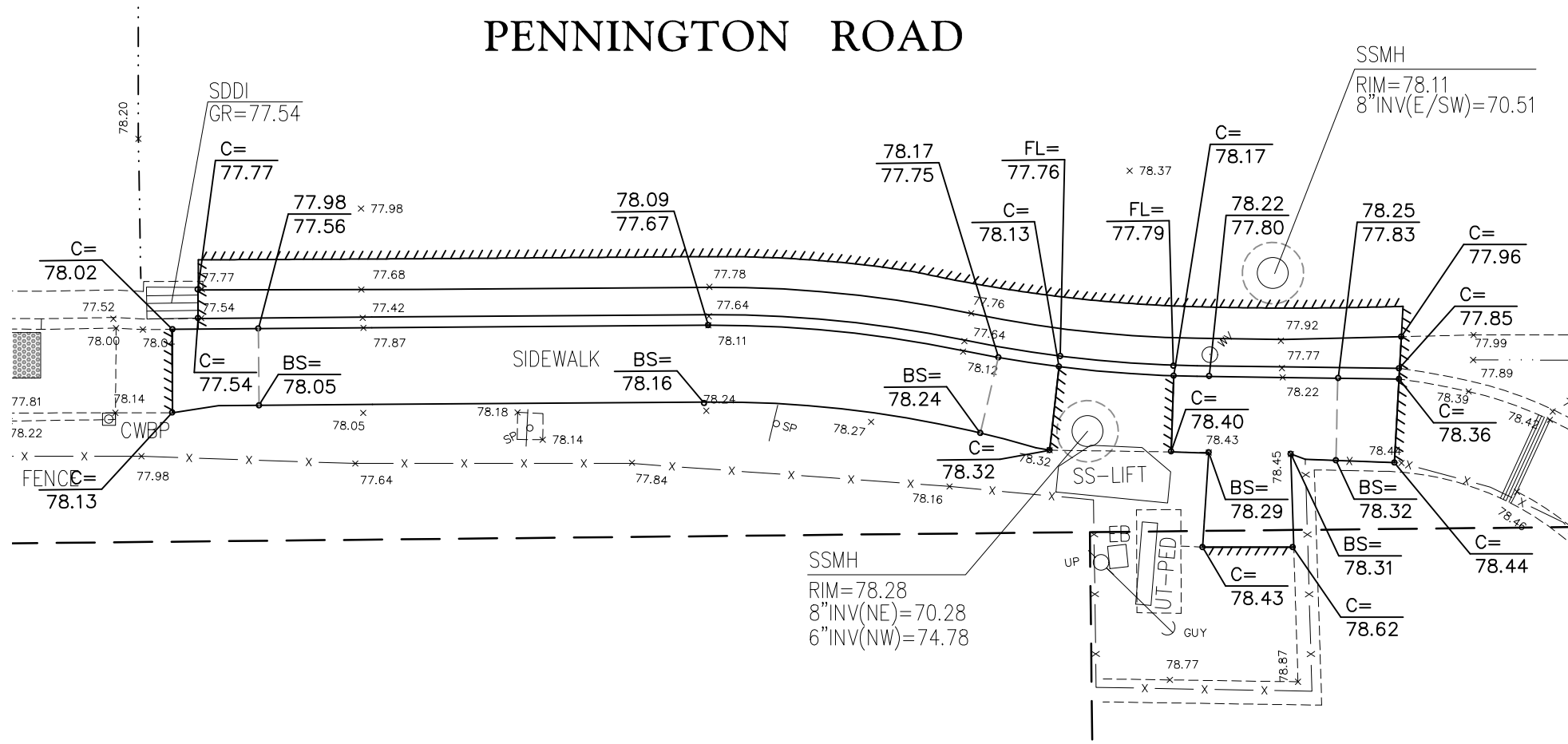
PREPARED FOR:
CITY OF LIVE OAK

RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

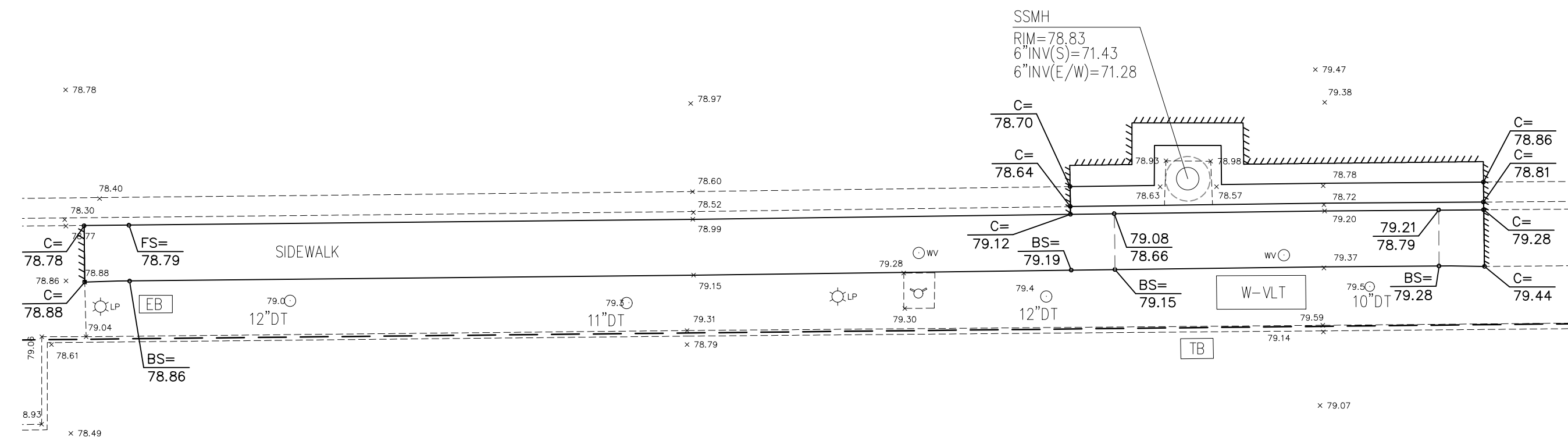
PENNINGTON ROAD OVERLAY PROJECT - EAST
ROAD RESURFACING PLAN - STA. 1+00 TO STA. 14+50

DESIGNED	DJB
DRAWN	CAD
CHECKED	SRR
DRAWING NO.	7 OF 15
JOB NO.	22033

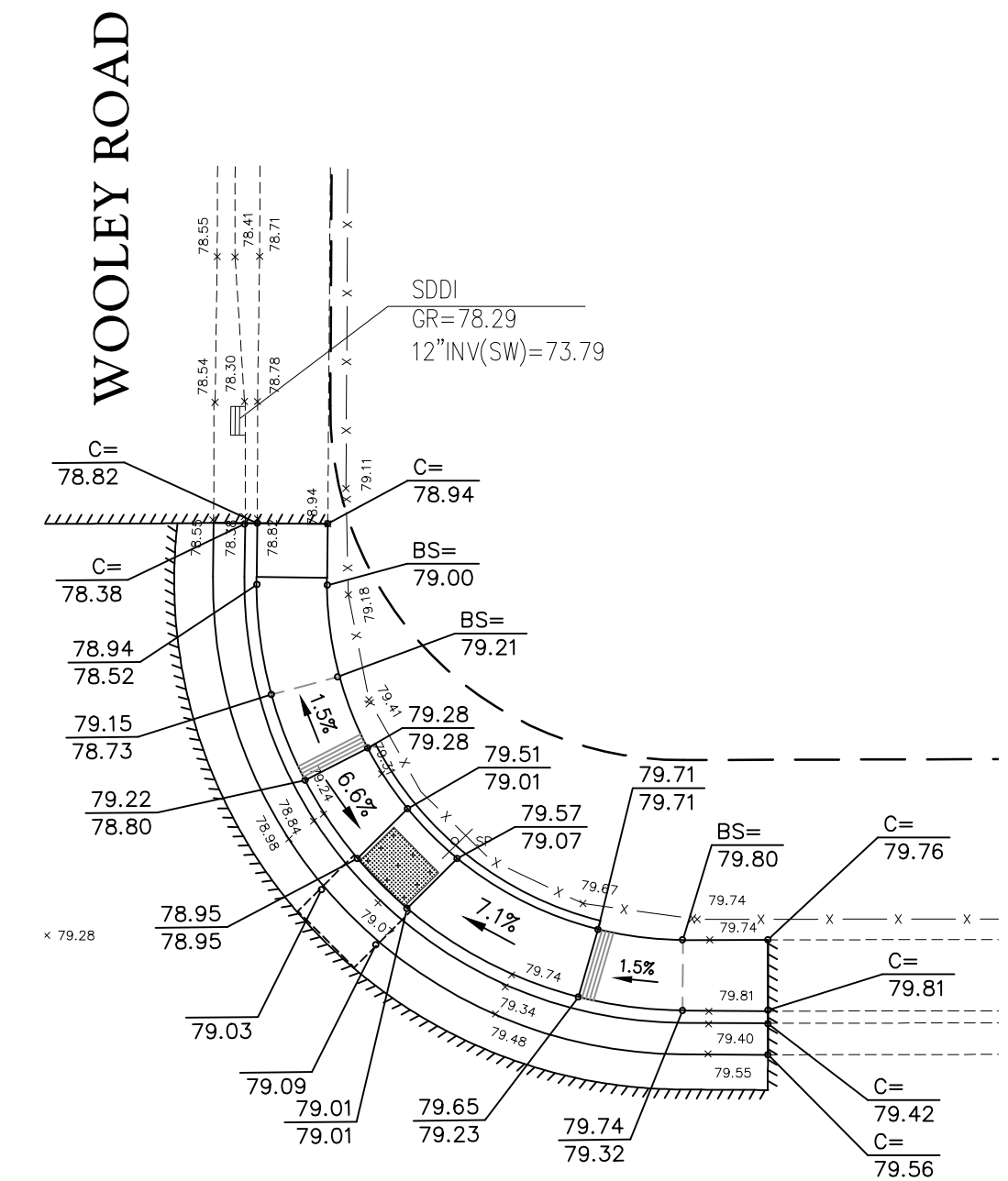
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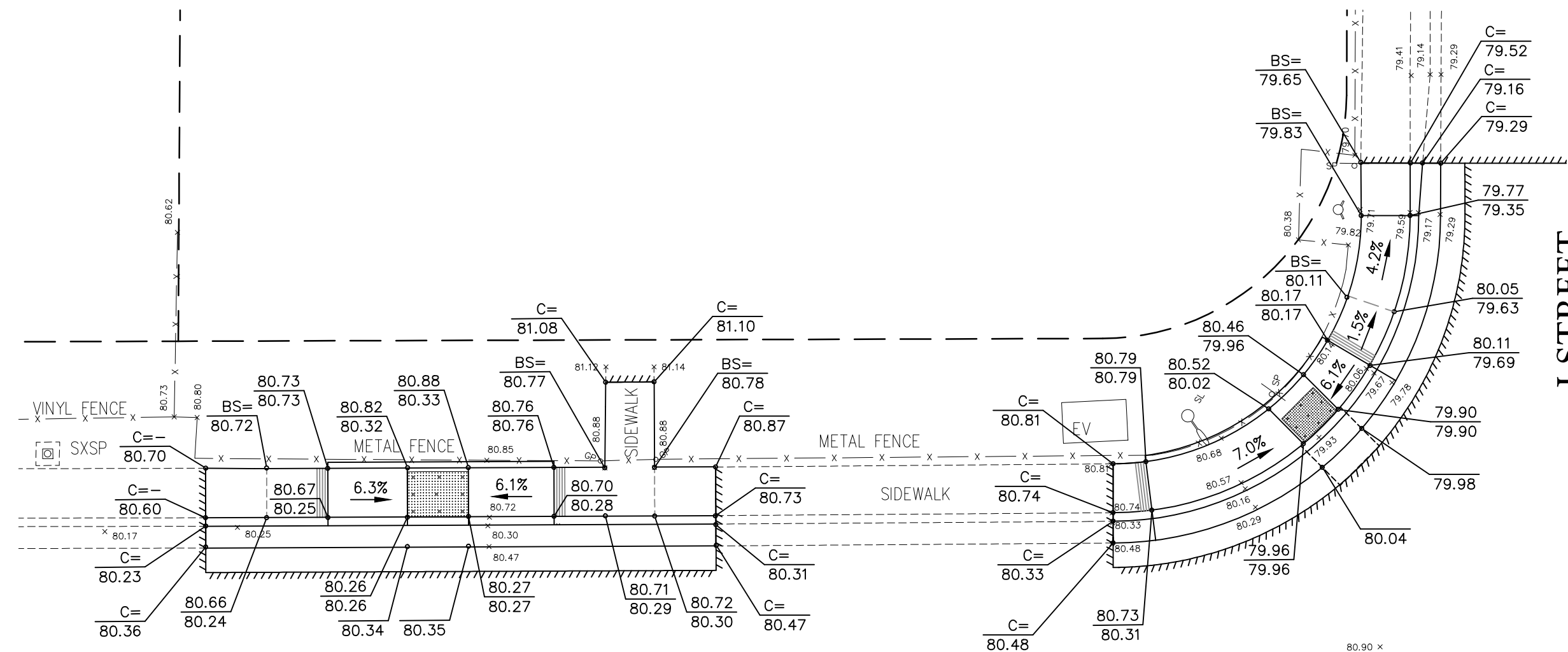
CURB, GUTTER AND SIDEWALK GRADING DETAIL
STA: 01+42.02 TO STA: 02+22.05
SCALE 1"=10'



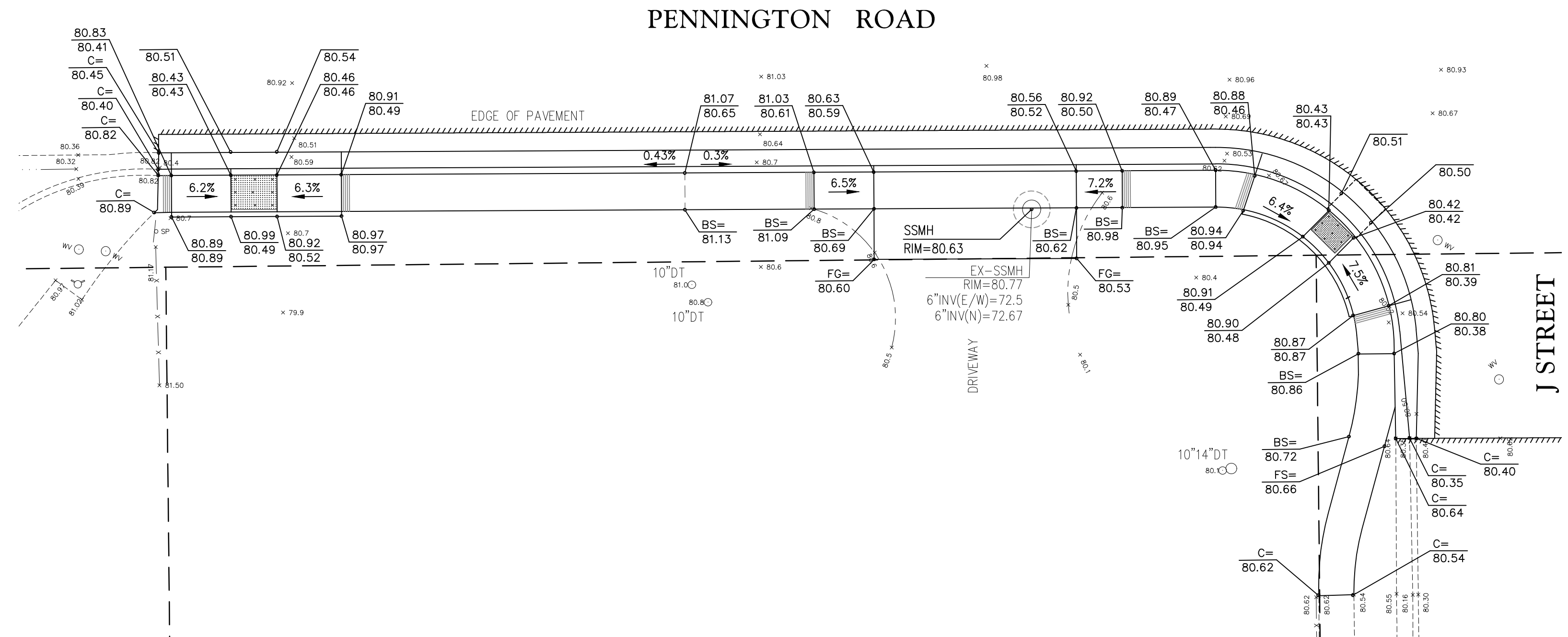
CURB, GUTTER AND SIDEWALK GRADING DETAIL
STA: 03+17.58 TO STA: 04+42.91
SCALE 1"=10'



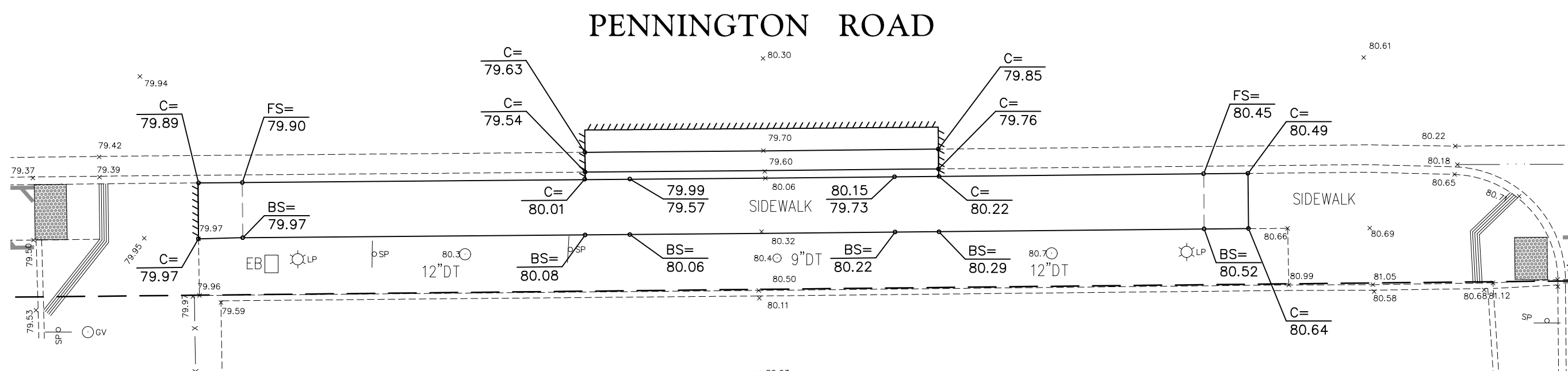
CURB RAMP GRADING DETAIL
STA: 05+23.85 TO STA: 05+55.18
SCALE 1"=10'



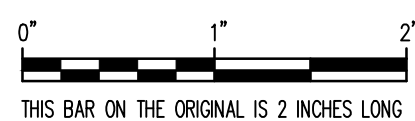
CURB RAMP GRADING DETAIL
STA: 07+32.76 TO STA: 08+33.89
SCALE 1"=10'



CURB RAMP, RESIDENTIAL DRIVEWAY, CURB, GUTTER AND SIDEWALK GRADING DETAIL
STA: 07+41.46 TO STA: 08+78.06
SCALE 1"=10'



CURB, GUTTER AND SIDEWALK GRADING DETAIL
STA: 05+48.70 TO STA: 06+39.74
SCALE 1"=10'



APPROVED
DATE OCTOBER, 2023

PREPARED FOR :

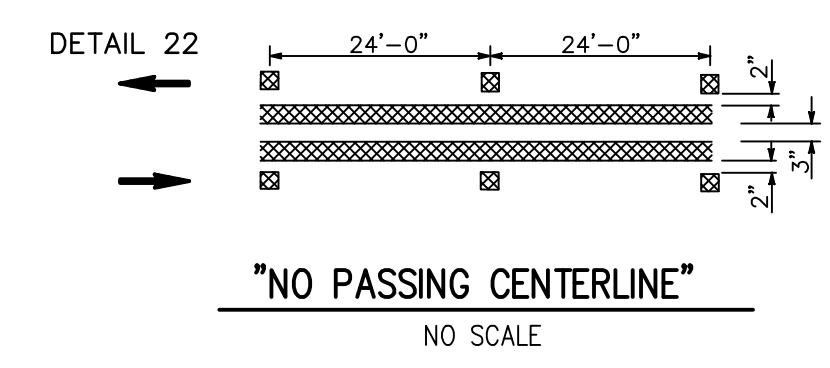
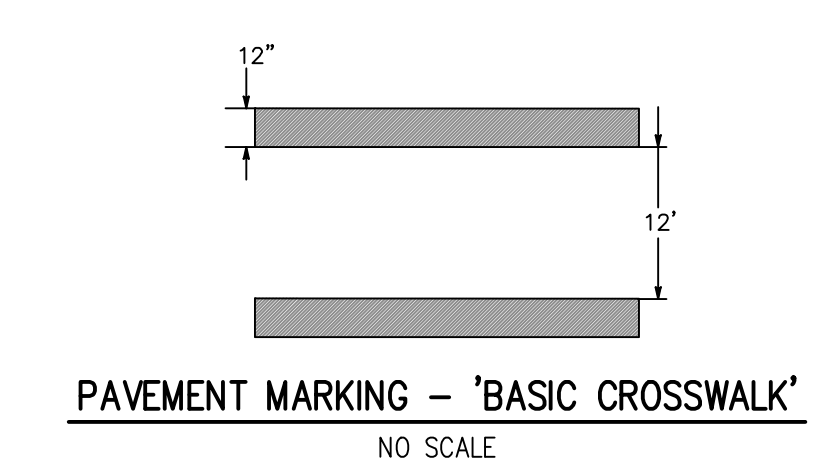
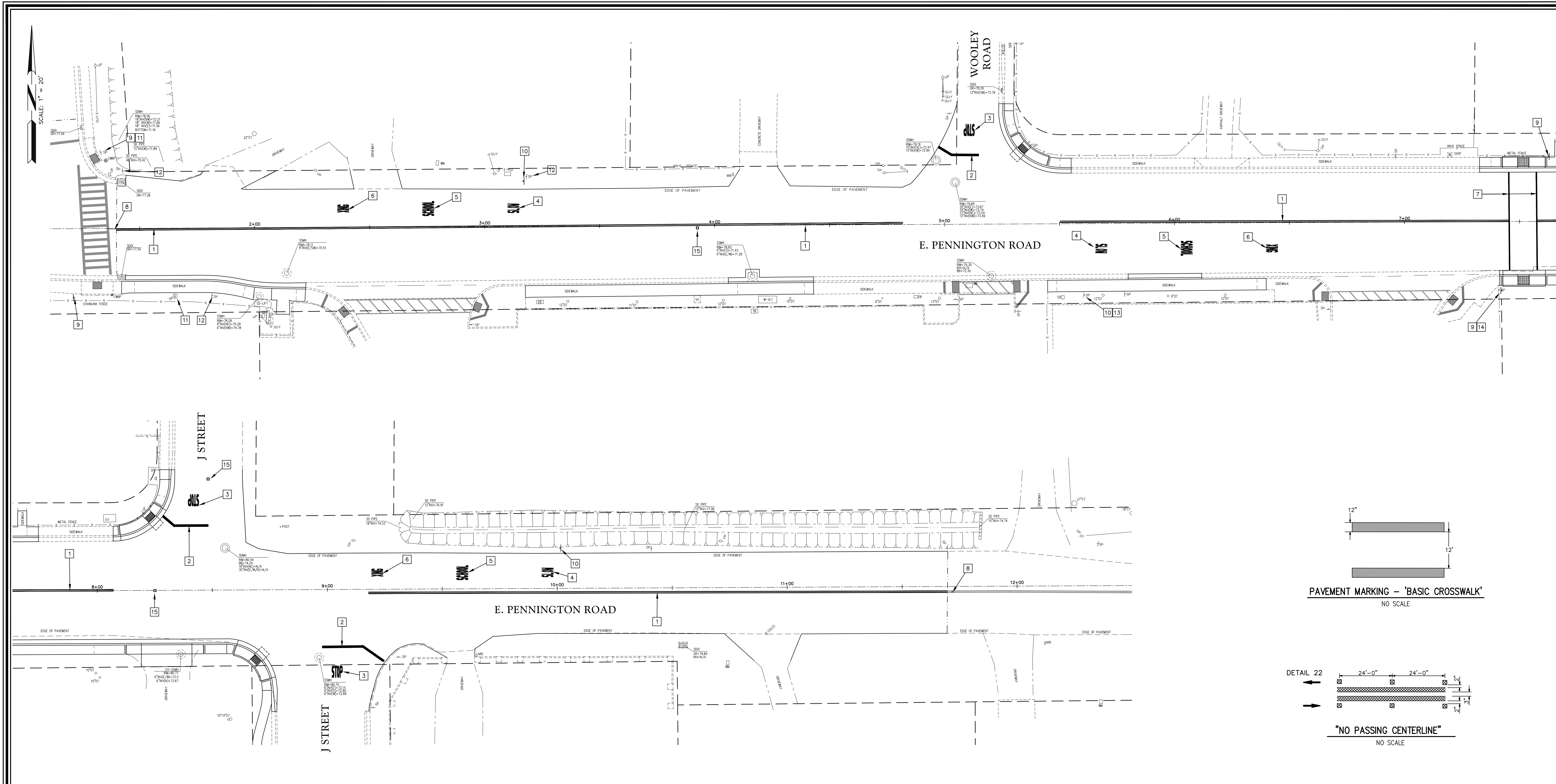
CITY OF LIVE OAK

RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT - EAST
GRADING DETAIL - STA. 1+00 TO STA. 14+50

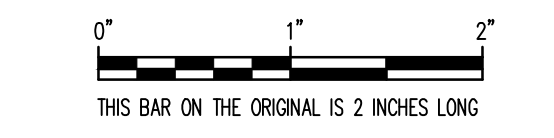
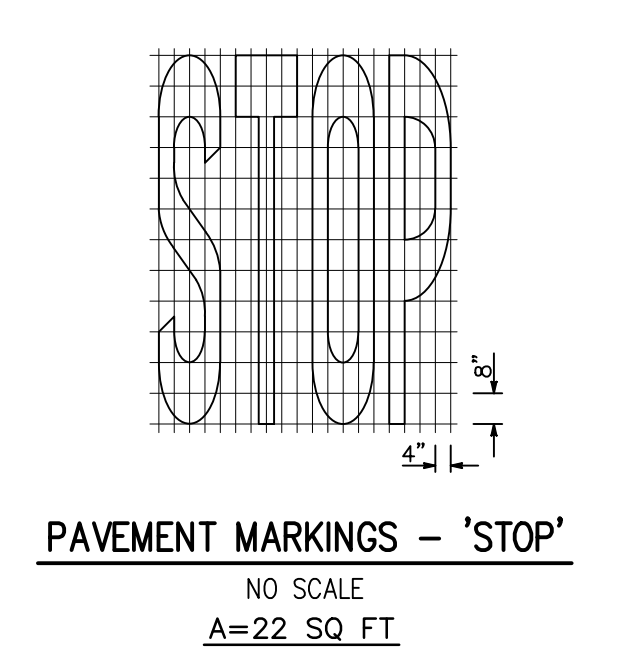
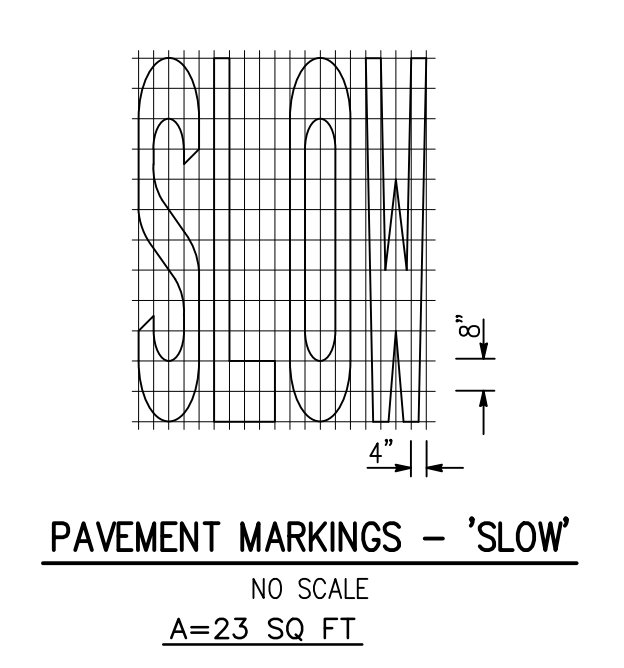
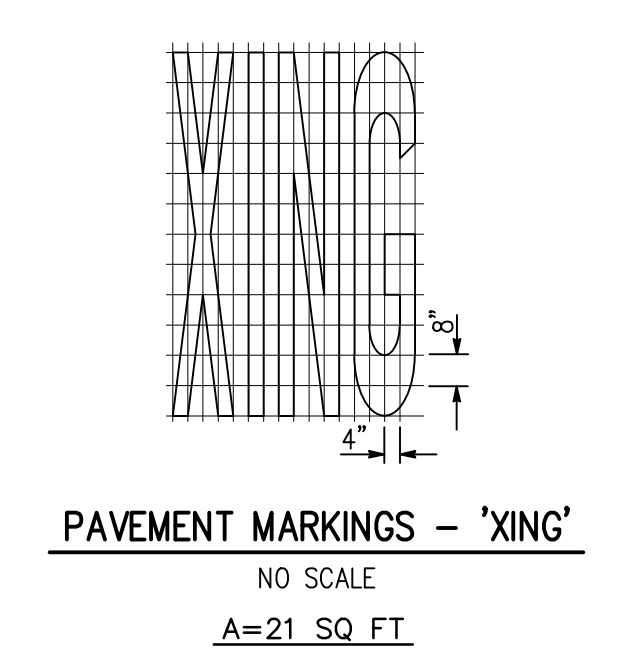
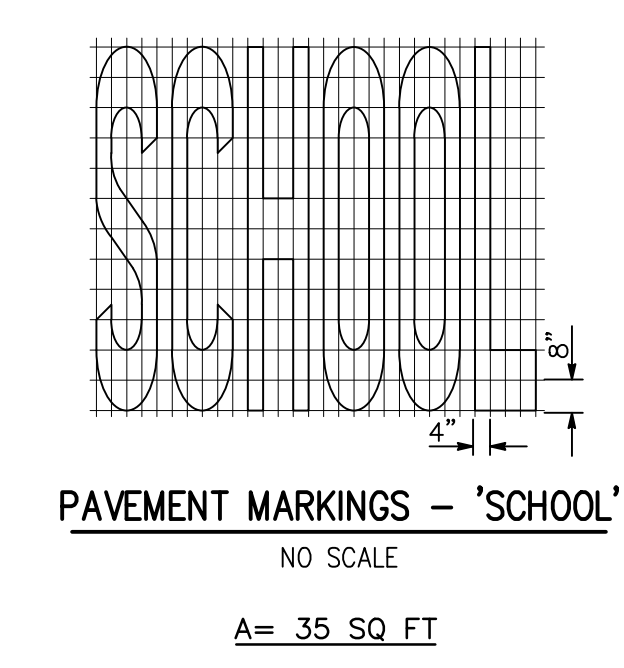
DESIGNED	DJB
DRAWN	CAD
CHECKED	SRR
DRAWING NO.	8 OF 15
JOB NO.	22033

S:\LIVE_OAK_2022\PROJECTS\2023_10 - Pennington East\2023_10 Pennington East\10/17/23 8:17:16 AM



STRIPING AND SIGNAGE PLAN NOTES

- | | | | |
|---|---|----|---|
| 1 | INSTALL "NO PASSING CENTERLINE" PER CAL TRANS STD. A20A DETAIL 22 (838 L.F. ± TOTAL THIS DRAWING) | 9 | INSTALL CITY OF LIVE OAK STD. 601 SCHOOL AREA SIGN SW24-2(CA) (4 TOTAL) |
| 2 | INSTALL "LIMIT LINE" PER CAL TRANS STD. A24E (69 L.F. ± TOTAL THIS DRAWING) | 10 | INSTALL CITY OF LIVE OAK STD. 601 SCHOOL AREA SIGN SW24-1(CA) (3 TOTAL) |
| 3 | INSTALL "STOP" PAVEMENT MARKING PER CALTRANS STD. A24D (3 TOTAL, 66 S.F. ± TOTAL THIS DRAWING) | 11 | PROTECT EXISTING SIGN POST IN PLACE AND REMOVE AND DISPOSE OF EXISTING SIGN |
| 4 | INSTALL "SLOW" PAVEMENT MARKING PER CALTRANS STD. A24D (3 TOTAL, 66 S.F. ± TOTAL THIS DRAWING) | 12 | REMOVE AND DISPOSE OF EXISTING SIGN AND POST |
| 5 | INSTALL "SCHOOL" PAVEMENT MARKING PER CALTRANS STD. A24D (3 TOTAL, 105 S.F. ± TOTAL THIS DRAWING) | 13 | PROTECT EXISTING SIGN POST IN PLACE |
| 6 | INSTALL "XING" PAVEMENT MARKING PER CALTRANS STD. A24D (3 TOTAL, 63 S.F. ± TOTAL THIS DRAWING) | 14 | REMOVE AND DISPOSE OF EXISTING SIGN POST AND RELOCATE EXISTING SIGN |
| 7 | INSTALL "BASIC CROSSWALK" PAVEMENT MARKING PER CAL TRANS STD. A24F (86 L.F. ± TOTAL THIS DRAWING) | 15 | PLACE BLUE REFLECTIVE MARKER AT CENTERLINE OF ROAD AT FIRE HYDRANT LOCATION (3 TOTAL) |
| 8 | CONFORM TO EXISTING STRIPING | | |



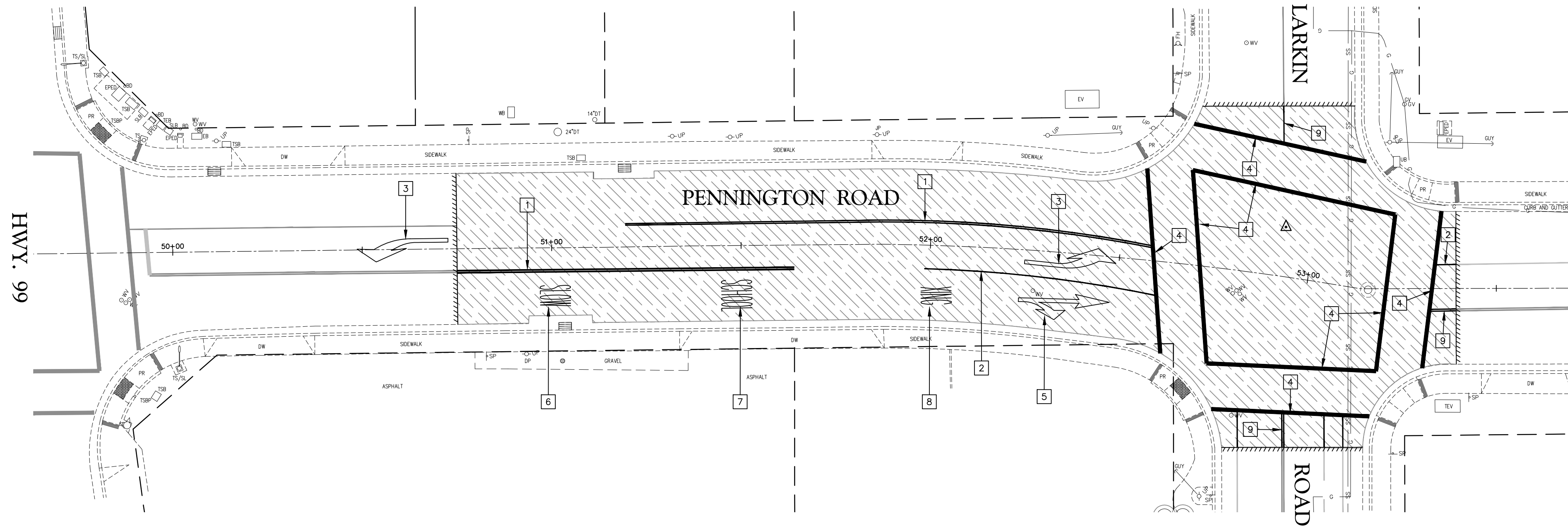
APPROVED
DATE
OCTOBER, 2023

PREPARED FOR:
CITY OF LIVE OAK

RAR
ROLLS ANDERSON & ROLL
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

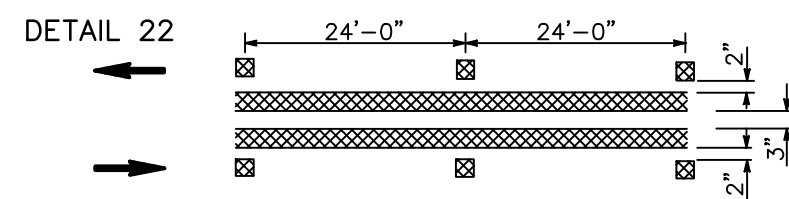
PENNINGTON ROAD OVERLAY PROJECT - EAST
STRIPING AND SIGNAGE PLAN - STA: 1+00 TO STA. 14+50

DESIGNED	SRR
DRAWN	DLP
CHECKED	SRR
DRAWING NO.	9 OF 15
JOB NO.	22033

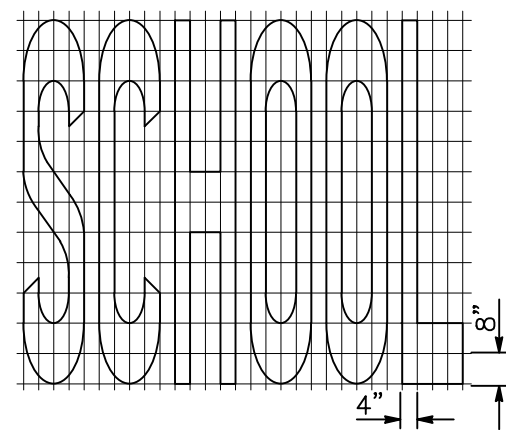


STRIPING PLAN NOTES

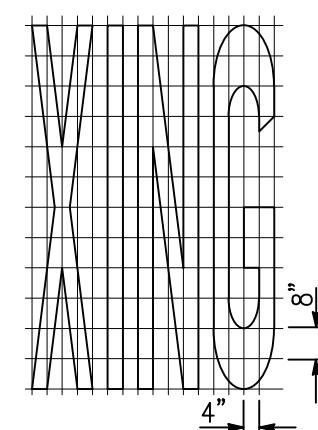
- | | | | |
|---|---|---|---|
| 1 | INSTALL "NO PASSING CENTERLINE" PER CAL TRANS STD. A20A DETAIL 22 (229 L.F. ± TOTAL THIS DRAWING) | 7 | INSTALL "SCHOOL" PAVEMENT MARKING PER CALTRANS STD. A24D (1 TOTAL THIS DRAWING) |
| 2 | INSTALL "CHANNELIZING LINE" PER CAL TRANS STD. A20D DETAIL 38 (66 L.F. ± TOTAL THIS DRAWING) | 8 | INSTALL "XING" PAVEMENT MARKING PER CALTRANS STD. A24D (1 TOTAL THIS DRAWING) |
| 3 | INSTALL TYPE III (L) ARROW PER CALTRANS STD. A24A (2 TOTAL THIS DRAWING) | 9 | MATCH EXISTING CENTERLINE (42 LF TOTAL THIS DRAWING) |
| 4 | INSTALL BASIC CROSSWALK MARKING PER CAL TRANS STD. A24F (372 L.F. ± TOTAL THIS DRAWING) | | |
| 5 | INSTALL TYPE II (R) ARROW PER CALTRANS STD. A24B (1 TOTAL THIS DRAWING) | | |
| 6 | INSTALL "SLOW" PAVEMENT MARKING PER CALTRANS STD. A24D (1 TOTAL THIS DRAWING) | | |



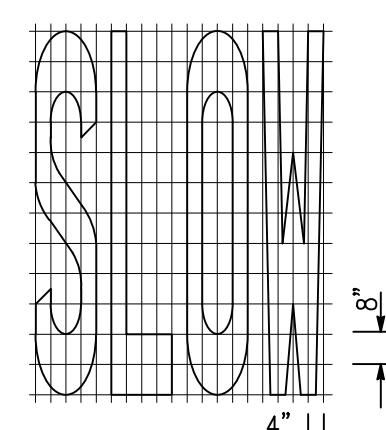
"NO PASSING CENTERLINE"
NO SCALE



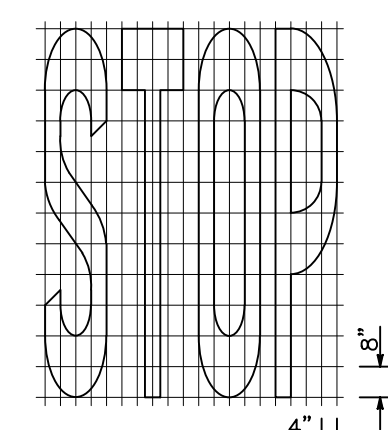
PAVEMENT MARKINGS - 'SCHOOL'
NO SCALE
A= 35 SQ FT



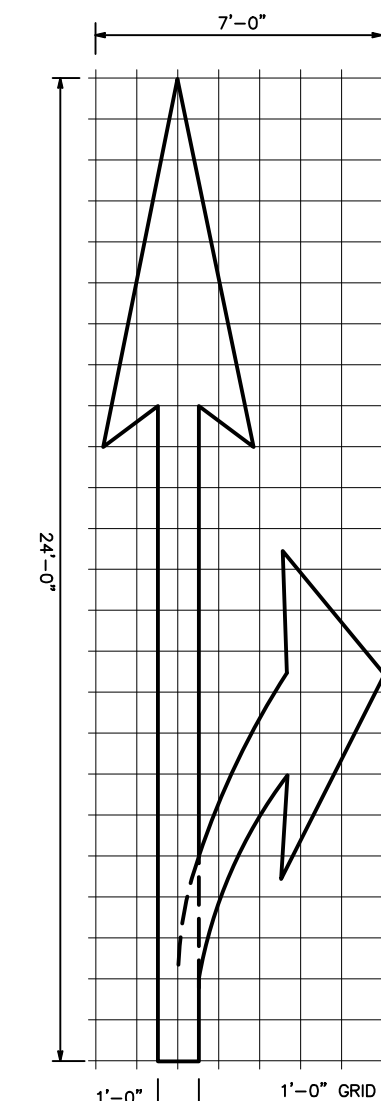
PAVEMENT MARKINGS - 'XING'
NO SCALE
A=21 SQ FT



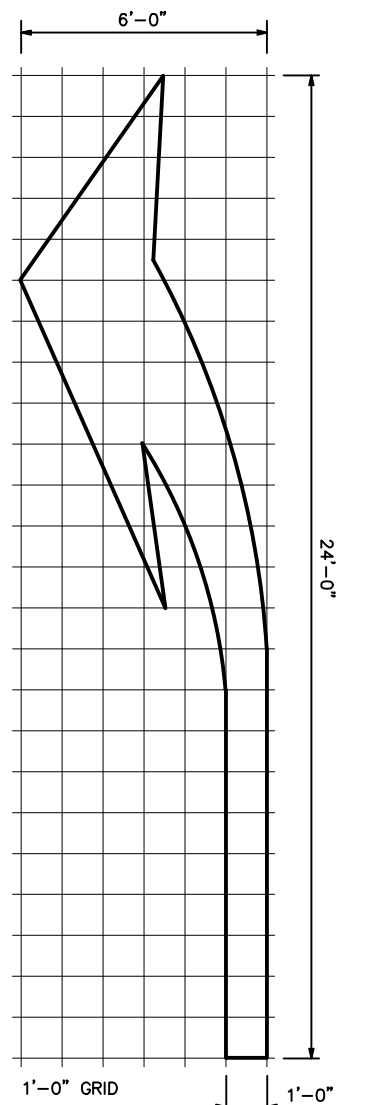
PAVEMENT MARKINGS - 'SLOW'
NO SCALE
A=23 SQ FT



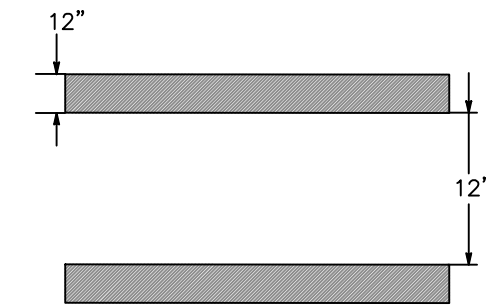
PAVEMENT MARKINGS - 'STOP'
NO SCALE
A=22 SQ FT



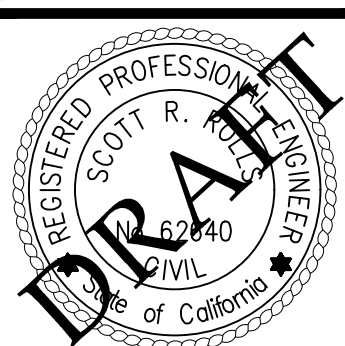
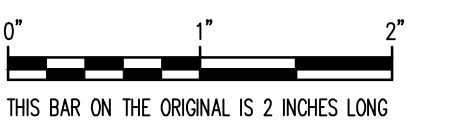
PAVEMENT MARKINGS - TYPE II (R) ARROW
NO SCALE



PAVEMENT MARKINGS - TYPE III (L) ARROW



PAVEMENT MARKING - 'BASIC CROSSWALK'
NO SCALE



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DATE
OCTOBER, 2023

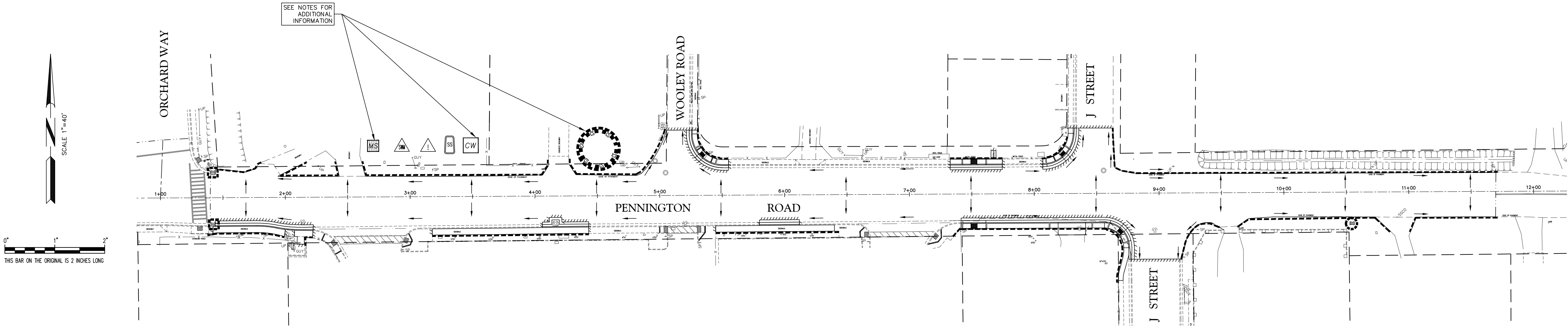
PREPARED FOR :

CITY OF LIVE OAK

RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT - EAST
STRIPING PLAN STA: 50+00 TO STA: 53+00

DESIGNED	DJB
DRAWN	CAD
CHECKED	SRR
DRAWING NO.	10 OF 15
JOB NO.	22033



0" 1" 2"
THIS BAR ON THE ORIGINAL IS 2 INCHES LONG

ORCHARD WAY

WOOLEY ROAD

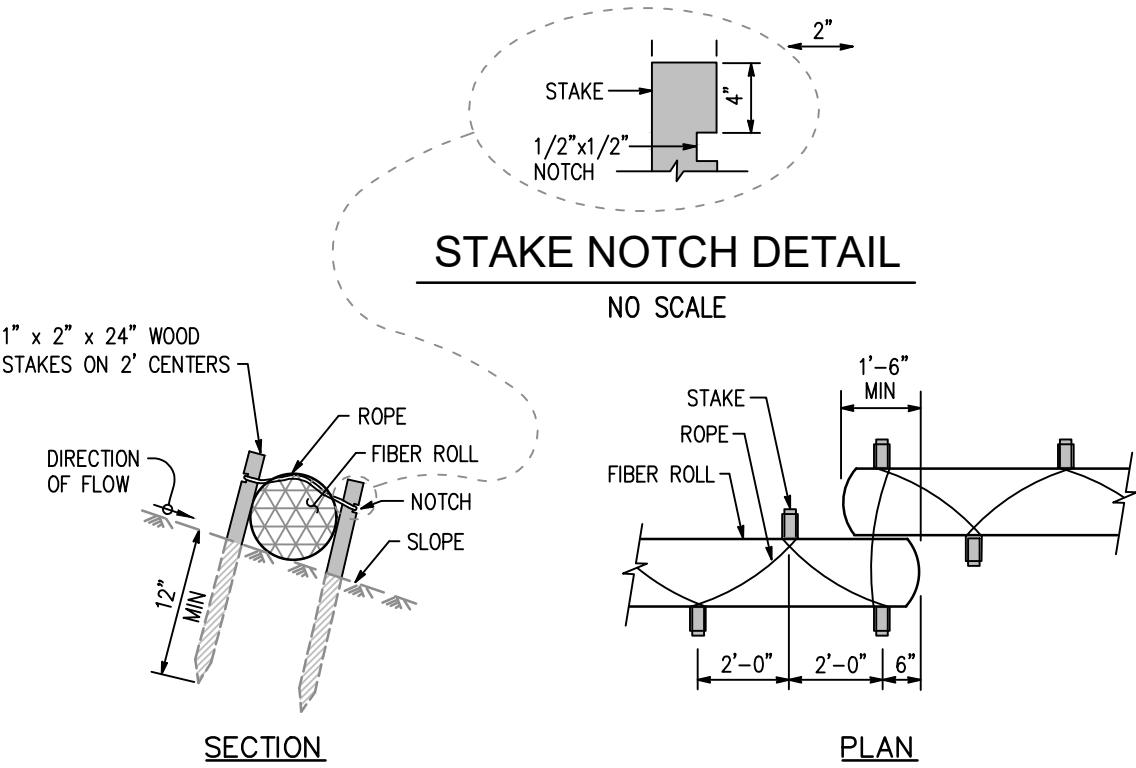
J STREET

J STREET

PENNINGTON ROAD

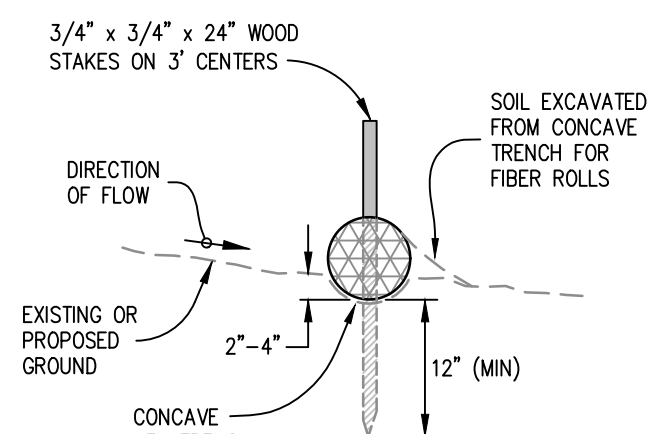
STAKE NOTCH DETAIL

NO SCALE



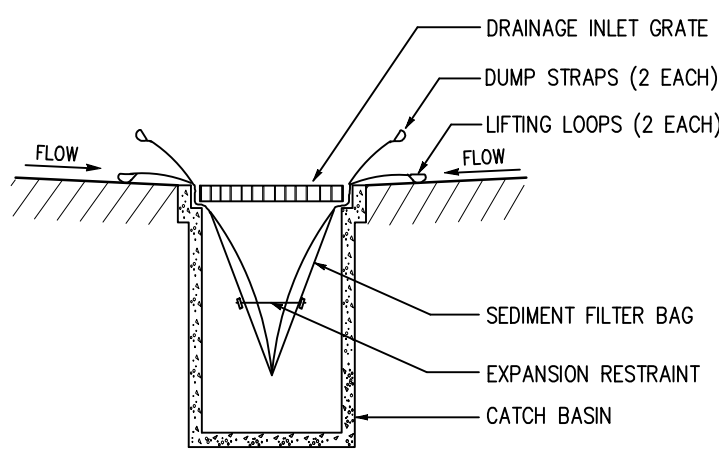
FIBER ROLL DETAIL (TYPE 2)

NO SCALE



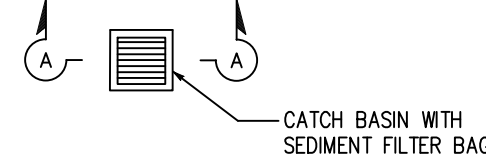
FIBER ROLL DETAIL (TYPE 1)

NO SCALE



SECTION A-A

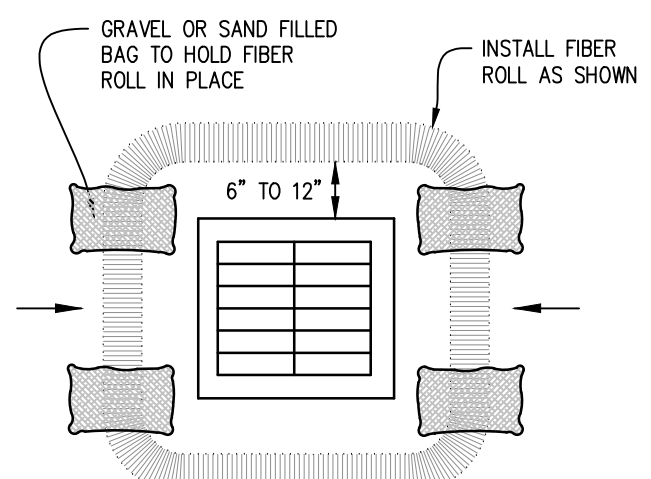
NOTE: PROVIDE OVERFLOW OPENINGS NEAR TOP OF SEDIMENT FILTER BAG



PLAN VIEW

DETAIL 2

NO SCALE



DETAIL 1

NO SCALE

NOTES

1. THE LOCATION AND EXTENT OF EROSION CONTROL FACILITIES SHOWN ON THIS PLAN SHALL BE ADJUSTED AND MODIFIED BY THE CONTRACTOR TO ADAPT TO CHANGING SITE CONDITIONS AND THE PHASING OF VARIOUS CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMISSIONS FOR THE USE OF PROPERTY AS A TEMPORARY STAGING YARD DURING THE PROJECT CONSTRUCTION, AND SHALL SUBMIT AN EROSION SEDIMENT PLAN LAYOUT THAT IDENTIFIES THE LOCATION OF THE CRUSHED ROCK ENTRANCE, TO THE CITY PRIOR TO BEGINNING CONSTRUCTION AND THE DELIVERY OF MATERIALS.

ALL DISTURBED SOIL AREAS THAT WILL NOT BE LANDSCAPED SHALL BE SEEDED AND WATERED UNTIL VEGETATION HAS BEEN ESTABLISHED.

ALL AREAS THAT ARE USED TO STOCKPILE SOIL OR MATERIALS SHALL BE COVERED WITH PLASTIC AND PROTECTED WITH A TEMPORARY PERIMETER SEDIMENT BARRIER WHEN NOT ACTIVELY BEING USED, AT THE END OF EACH DAY, AND PRIOR TO THE ONSET OF PRECIPITATION.

ESCP NOTES

1. NO SOIL DISTURBANCE SHALL OCCUR PRIOR TO OBTAINING A BUILDING OR GRADING PERMIT.
2. PERSON RESPONSIBLE FOR EROSION CONTROL: TBD
3. EROSION CONTROL MEASURES SHALL BE IN PLACE BETWEEN OCTOBER 15TH AND APRIL 15TH, OR WHEN RAIN IS FORECASTED.
4. SOILS TRACKED OFF SITE INTO STREETS SHALL BE CLEANED UP AT THE END OF EACH WORK DAY.
5. ALL STOCKPILE MATERIALS SHALL BE COVERED AND PROTECTED WITH A TEMPORARY PERIMETER SEDIMENT BARRIER WHEN NOT ACTIVELY BEING USED, AT THE END OF EACH DAY AND PRIOR TO THE ONSET OF PRECIPITATION.
6. THE EROSION CONTROL PLAN SHALL BE RE-EVALUATED AND ADJUSTED ACCORDINGLY AS THE SITE CHANGES AND AFTER RAIN EVENTS.
7. EROSION CONTROL MEASURES SHALL BE MAINTAINED.
8. RESIDUE FROM PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE GRINDING/SAWCUTTING OPERATIONS SHALL BE PICKED UP BY MEANS OF A VACUUM SYSTEM OR SWEEPING AND SHALL NOT BE ALLOWED TO FLOW INTO THE STORM DRAINAGE SYSTEM.
9. ON-SITE VEHICLE AND EQUIPMENT MAINTENANCE, CLEANING, AND FUELING IS DISCOURAGED. WHEN ONE OF THESE ACTIVITIES MUST OCCUR ON-SITE THE WORK SHALL TAKE PLACE WITHIN A BERMED AREA PROTECTED FROM RUNOFF AT LEAST 50 FEET FROM DRAINAGE FACILITIES. SPILL CLEAN-UP MATERIALS SHALL BE AVAILABLE PRIOR TO ANY OF THESE ACTIVITIES TAKING PLACE.
10. VEHICLES AND EQUIPMENT STORED ON-SITE SHALL BE PLACED WITHIN A BERMED AREA PROTECTED FROM RUNOFF AT LEAST 50 FEET FROM DRAINAGE FACILITIES.
11. ALL MATERIAL EXCAVATED OR GRADED SHALL BE SUFFICIENTLY WATERED TO PREVENT EXCESSIVE AMOUNTS OF DUST. WATERING, WITH COMPLETE COVERAGE, SHALL OCCUR AS NECESSARY.
12. ACCESS TO THE SITE SHALL BE LIMITED TO ONE LOCATION. THE ACCESS POINT AND ADJACENT ROADWAY SHALL BE CLEANED DAILY TO PREVENT THE OFFSITE TRACKING OF SEDIMENT AND/OR MUD. THE CONTRACTOR SHALL CONSTRUCT A 12" THICK CRUSHED STONE (3"-6") DRIVEWAY ON GEOTEXTILE FABRIC AND TIRE WASH IF VEHICLES AND EQUIPMENT ARE ALLOWED TO ACCESS NON-PAVED AREAS. THE CONTRACTOR SHALL CLEAN AND/OR REPLACE THE DRIVEWAY AS NEEDED TO PREVENT THE OFFSITE TRACKING OF SEDIMENT AND/OR MUD.

ESCP LEGEND

- PROPOSED DIRECTION OF SURFACE FLOW
- INSTALL INLET PROTECTION PER DETAIL 1
- INSTALL INLET PROTECTION PER DETAIL 2
- PROPOSED SAWCUT LINE, REFER TO NOTE 8
- PROPOSED MATERIAL DELIVERY AND STORAGE AREA
- PROPOSED SOLID WASTE MANAGEMENT AREA
- PROPOSED HAZARDOUS WASTE MANAGEMENT AREA
- PROPOSED PORTABLE RESTROOM LOCATION
- DESIGNATES A 15' X 15' AREA WITH A 2 FOOT HIGH BERM ON ALL FOUR SIDES LINED WITH 10 MIL PLASTIC TO BE CONSTRUCTED BY THE CONTRACTOR PER DETAIL WM-8 (SEE SWPPP) FOR WASHOUT OF CONCRETE TRUCKS LEAVING THE SITE. CONTRACTOR SHALL CLEANOUT RESIDUE ON A REGULAR BASIS AND MAINTAIN PERIMETER BERMS. IF NECESSARY FOR CONSTRUCTION PURPOSES, THE DESIGNATED AREA MAY BE RELOCATED TO OTHER AREAS AWAY FROM CONCENTRATED RUNOFF.
- INSTALL 8" ROUND "FIBER ROLL" TO CONTROL AND FILTER SEDIMENT FROM STORM WATER RUNOFF. MAY BE REMOVED AFTER SITE HAS BEEN STABILIZED AND THERE IS NO POTENTIAL FOR CONSTRUCTION RELATED STORM WATER POLLUTION.
- INSTALL CRUSHED ROCK ENTRANCE



APPROVED
DATE
OCTOBER, 2023

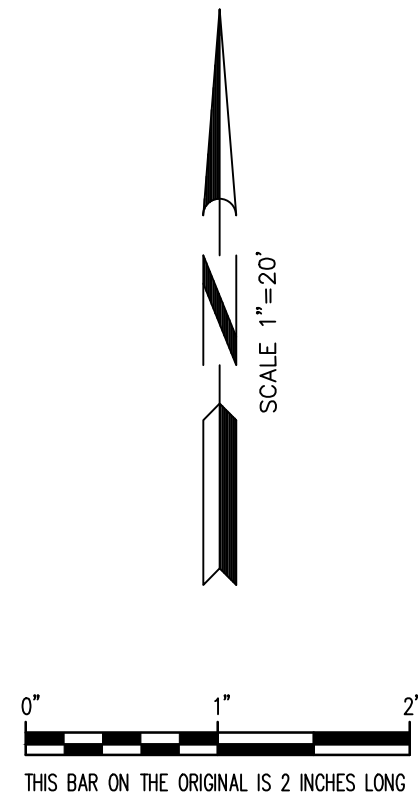
PREPARED FOR :

CITY OF LIVE OAK

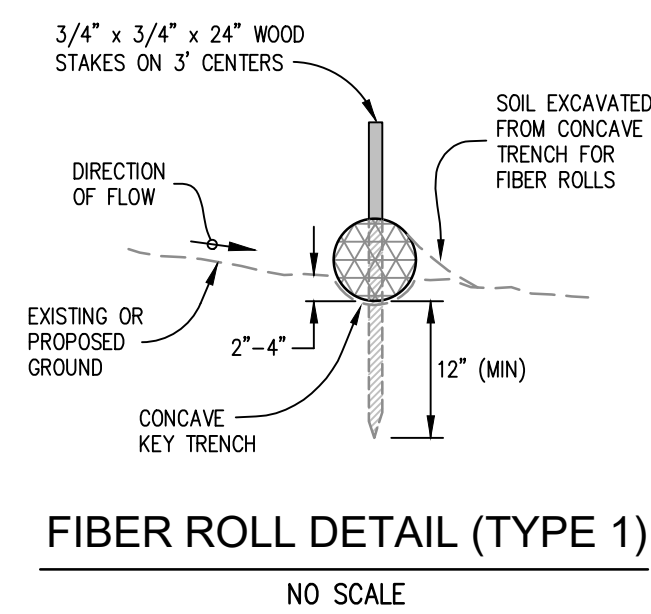
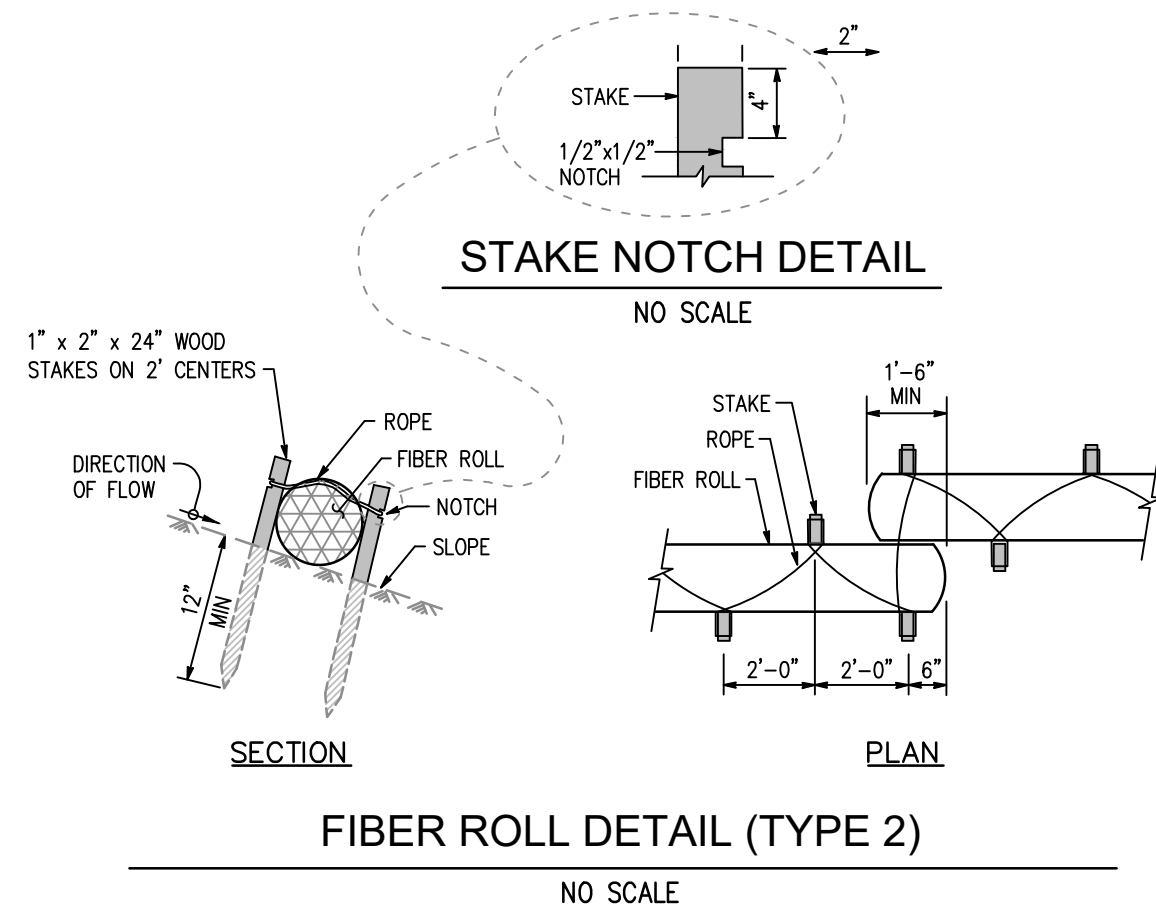
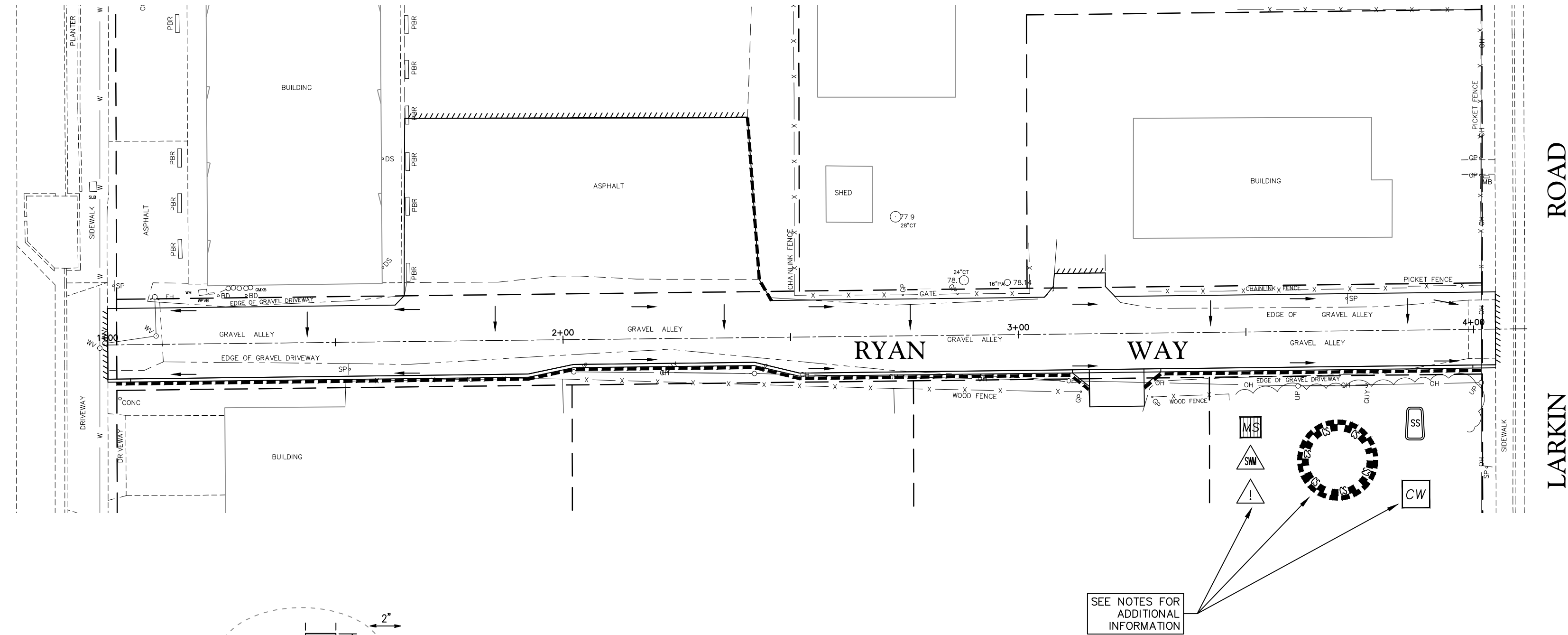
RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT-EAST
EROSION AND SEDIMENT CONTROL PLAN - STA. 1+00 TO STA. 14+50

DESIGNED	DJB
DRAWN	CAD
CHECKED	SRR
DRAWING NO.	11 OF 15
JOB NO.	22033



HWY. 99



ESCP NOTES

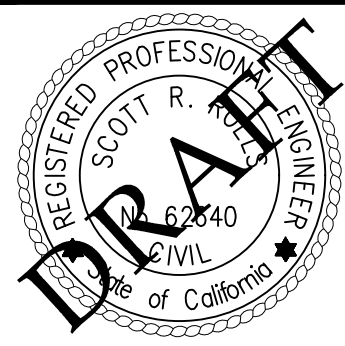
- NO SOIL DISTURBANCE SHALL OCCUR PRIOR TO OBTAINING A BUILDING OR GRADING PERMIT.
- PERSON RESPONSIBLE FOR EROSION CONTROL: TBD
- EROSION CONTROL MEASURES SHALL BE IN PLACE BETWEEN OCTOBER 15TH AND APRIL 15TH, OR WHEN RAIN IS FORECASTED.
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- ALL STOCKPILE MATERIALS SHALL BE COVERED AND PROTECTED WITH A TEMPORARY PERIMETER SEDIMENT BARRIER WHEN NOT ACTIVELY BEING USED, AT THE END OF EACH DAY AND PRIOR TO THE ONSET OF PRECIPITATION.
- THE EROSION CONTROL PLAN SHALL BE RE-EVALUATED AND ADJUSTED ACCORDINGLY AS THE SITE CHANGES AND AFTER RAIN EVENTS.
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- RESIDUE FROM PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE GRINDING/SAWCUTTING OPERATIONS SHALL BE PICKED UP BY MEANS OF A VACUUM SYSTEM OR SWEEPING AND SHALL NOT BE ALLOWED TO FLOW INTO THE STORM DRAINAGE SYSTEM.
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- VEHICLES AND EQUIPMENT STORED ON-SITE SHALL BE PLACED WITHIN A BERMED AREA PROTECTED FROM RUNOFF AT LEAST 50 FEET FROM DRAINAGE FACILITIES.
- ALL MATERIAL EXCAVATED OR GRADED SHALL BE SUFFICIENTLY WATERED TO PREVENT EXCESSIVE AMOUNTS OF DUST. WATERING, WITH COMPLETE COVERAGE, SHALL OCCUR AS NECESSARY.
- ACCESS TO THE SITE SHALL BE LIMITED TO ONE LOCATION. THE ACCESS POINT AND ADJACENT ROADWAY SHALL BE CLEANED DAILY TO PREVENT THE OFFSITE TRACKING OF SEDIMENT AND/OR MUD. THE CONTRACTOR SHALL CONSTRUCT A 12" THICK CRUSHED STONE (3"-6") DRIVEWAY ON GEOTEXTILE FABRIC AND TIRE WASH IF VEHICLES AND EQUIPMENT ARE ALLOWED TO ACCESS NON-PAVED AREAS. THE CONTRACTOR SHALL CLEAN AND/OR REPLACE THE DRIVEWAY AS NEEDED TO PREVENT THE OFFSITE TRACKING OF SEDIMENT AND/OR MUD.

NOTES

- THE LOCATION AND EXTENT OF EROSION CONTROL FACILITIES SHOWN ON THIS PLAN SHALL BE ADJUSTED AND MODIFIED BY THE CONTRACTOR TO ADAPT TO CHANGING SITE CONDITIONS AND THE PHASING OF VARIOUS CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMISSIONS FOR THE USE OF PROPERTY AS A TEMPORARY STAGING YARD DURING THE PROJECT CONSTRUCTION, AND SHALL SUBMIT AN EROSION SEDIMENT PLAN LAYOUT THAT IDENTIFIES THE LOCATION OF THE CRUSHED ROCK ENTRANCE, TO THE CITY PRIOR TO BEGINNING CONSTRUCTION AND THE DELIVERY OF MATERIALS.

ALL DISTURBED SOIL AREAS THAT WILL NOT BE LANDSCAPED SHALL BE SEED AND WATERED UNTIL VEGETATION HAS BEEN ESTABLISHED.

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APPROVED

DATE OCTOBER, 2023

PREPARED FOR :

CITY OF LIVE OAK

RAR
ROLLS ANDERSON & ROLLS
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT - EAST
EROSION AND SEDIMENT CONTROL PLAN - RYAN WAY

DESIGNED	DJB
DRAWN	CAD
CHECKED	SRR
DRAWING NO.	12 OF 15
JOB NO.	22033

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APPROVED
DATE
OCTOBER, 2023

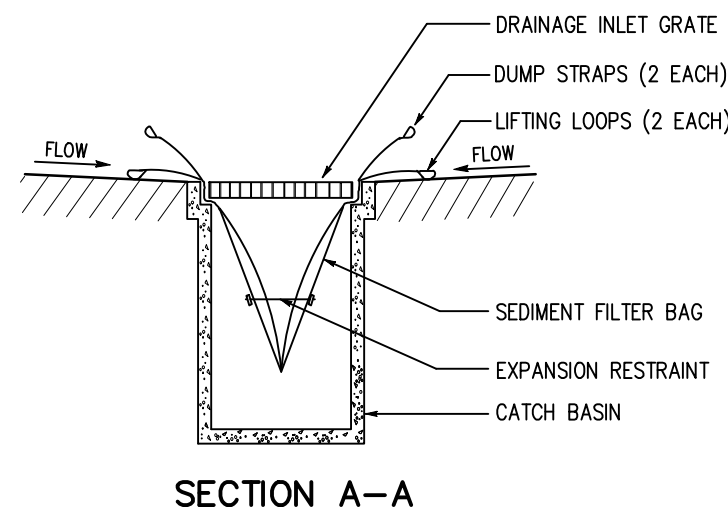
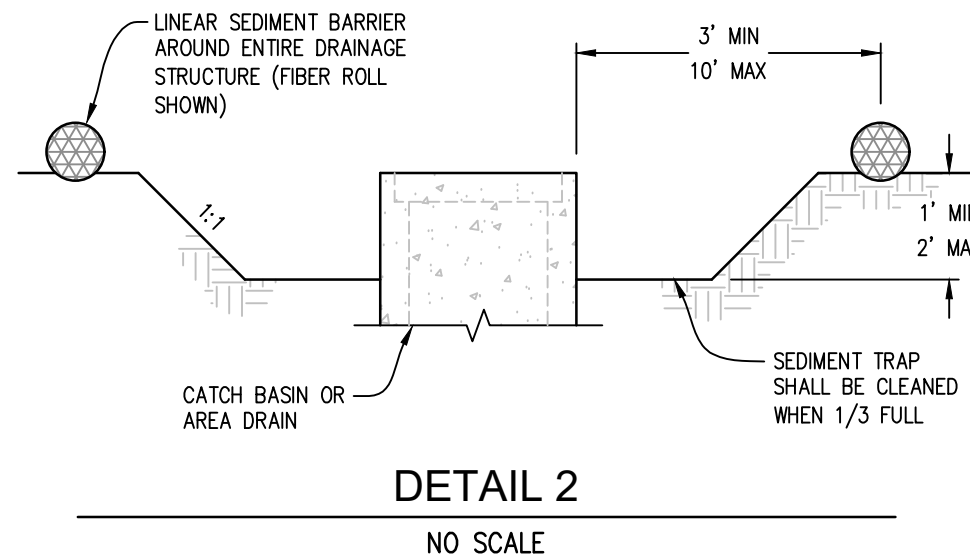
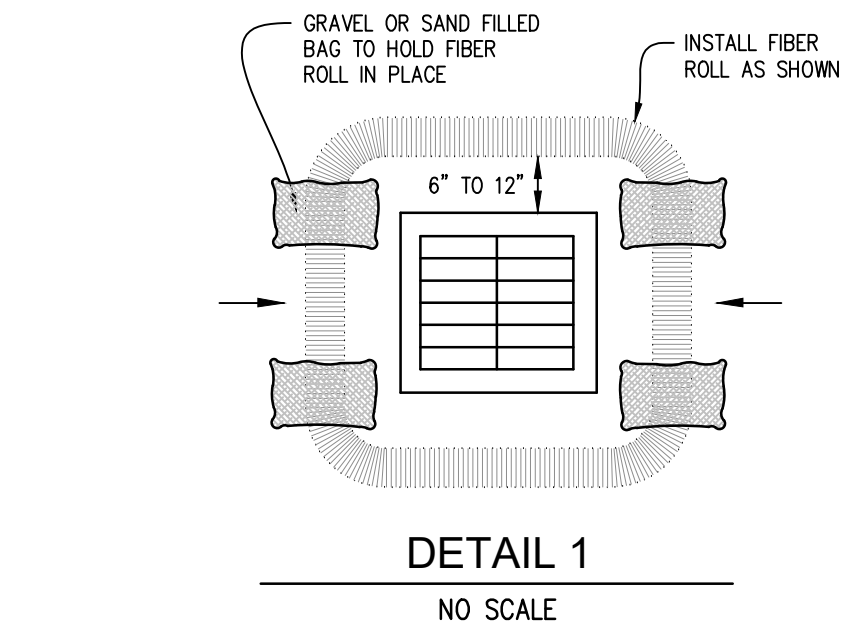
PREPARED FOR :

CITY OF LIVE OAK

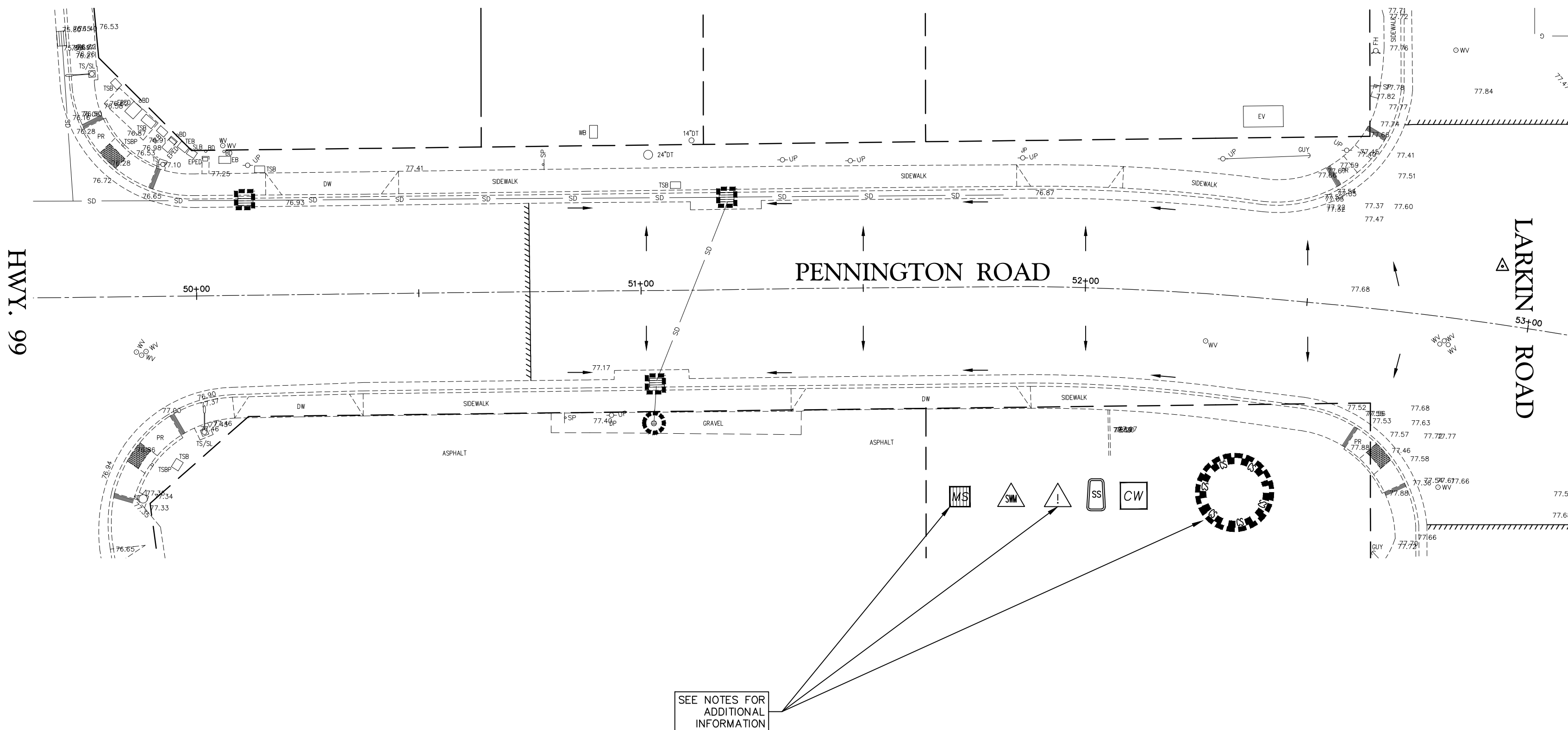
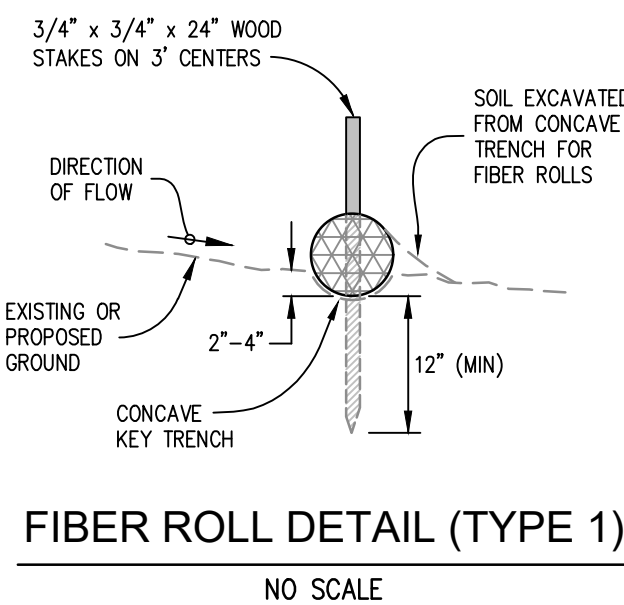
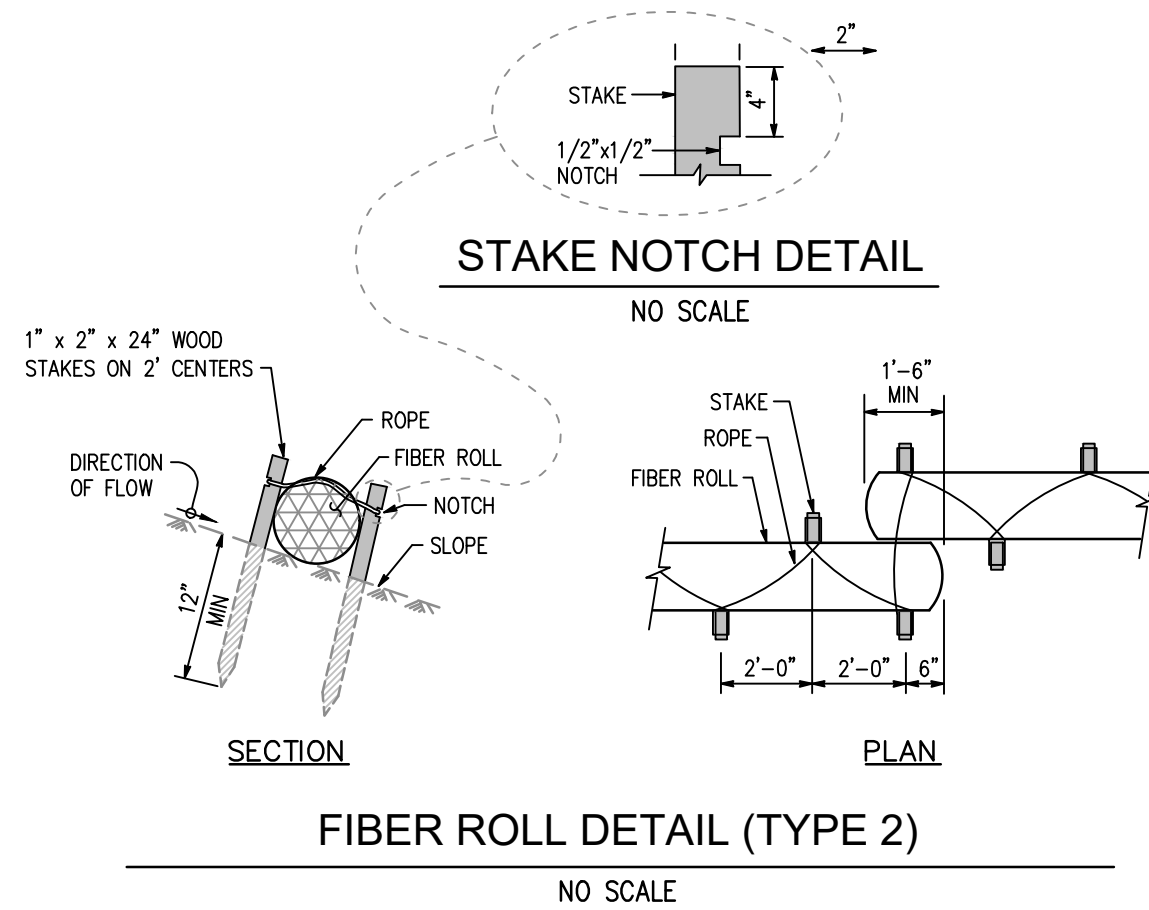
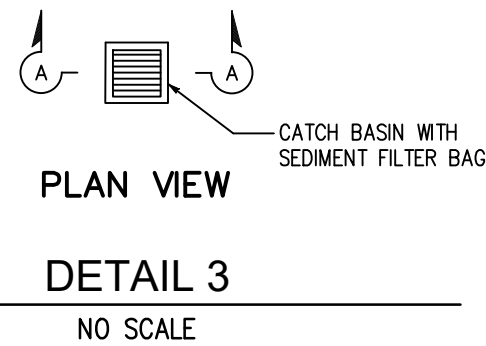
RAR
ROLLS ANDERSON & ROLL
CIVIL ENGINEERS
115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT - EAST
EROSION AND SEDIMENT CONTROL PLAN - STA: 50+00 TO STA: 53+00

DESIGNED	DJB
DRAWN	CAD
CHECKED	SRR
DRAWING NO.	13 OF 15
JOB NO.	22033



NOTE: PROVIDE OVERFLOW OPENINGS NEAR TOP OF SEDIMENT FILTER BAG



ESCP LEGEND

- PROPOSED DIRECTION OF SURFACE FLOW
- INSTALL INLET PROTECTION PER DETAIL 1 OR DETAIL 2
- INSTALL INLET PROTECTION PER DETAIL 3
- PROPOSED SAWCUT LINE, REFER TO NOTE 8
- PROPOSED MATERIAL DELIVERY AND STORAGE AREA
- PROPOSED SOLID WASTE MANAGEMENT AREA
- PROPOSED HAZARDOUS WASTE MANAGEMENT AREA
- PROPOSED PORTABLE RESTROOM LOCATION
- DESIGNATES A 15' X 15' AREA WITH A 2 FOOT HIGH BERM ON ALL FOUR SIDES LINED WITH 10 MIL PLASTIC TO BE CONSTRUCTED BY THE CONTRACTOR PER DETAIL WM-8 (SEE SWPPP) FOR WASHOUT OF CONCRETE TRUCKS LEAVING THE SITE. CONTRACTOR SHALL CLEANOUT RESIDUE ON A REGULAR BASIS AND MAINTAIN PERIMETER BERMS. IF NECESSARY FOR CONSTRUCTION PURPOSES, THE DESIGNATED AREA MAY BE RELOCATED TO OTHER AREAS AWAY FROM CONCENTRATED RUNOFF.

ALL DISTURBED SOIL AREAS THAT WILL NOT BE LANDSCAPED SHALL BE SEEDED AND WATERED UNTIL VEGETATION HAS BEEN ESTABLISHED.

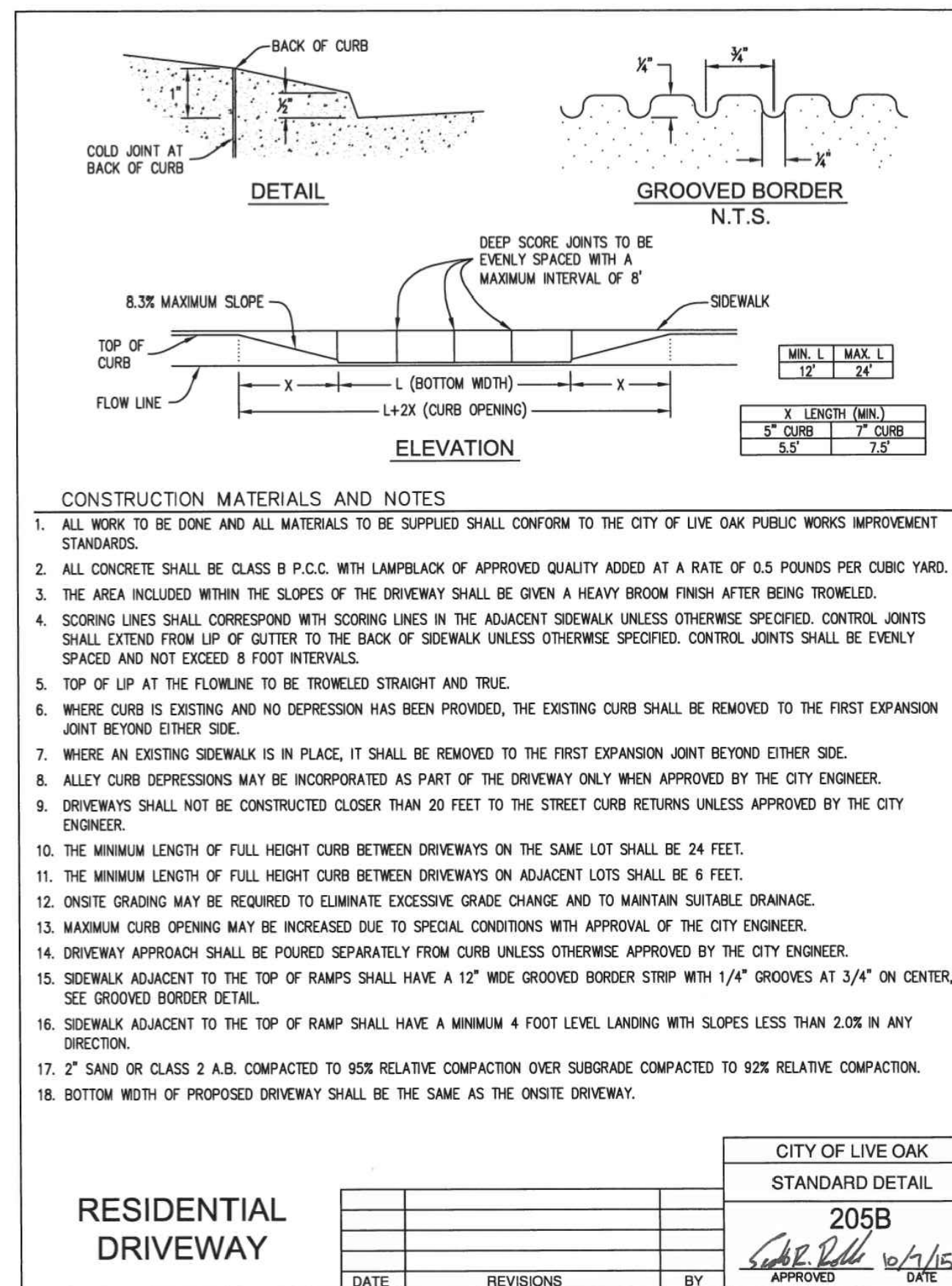
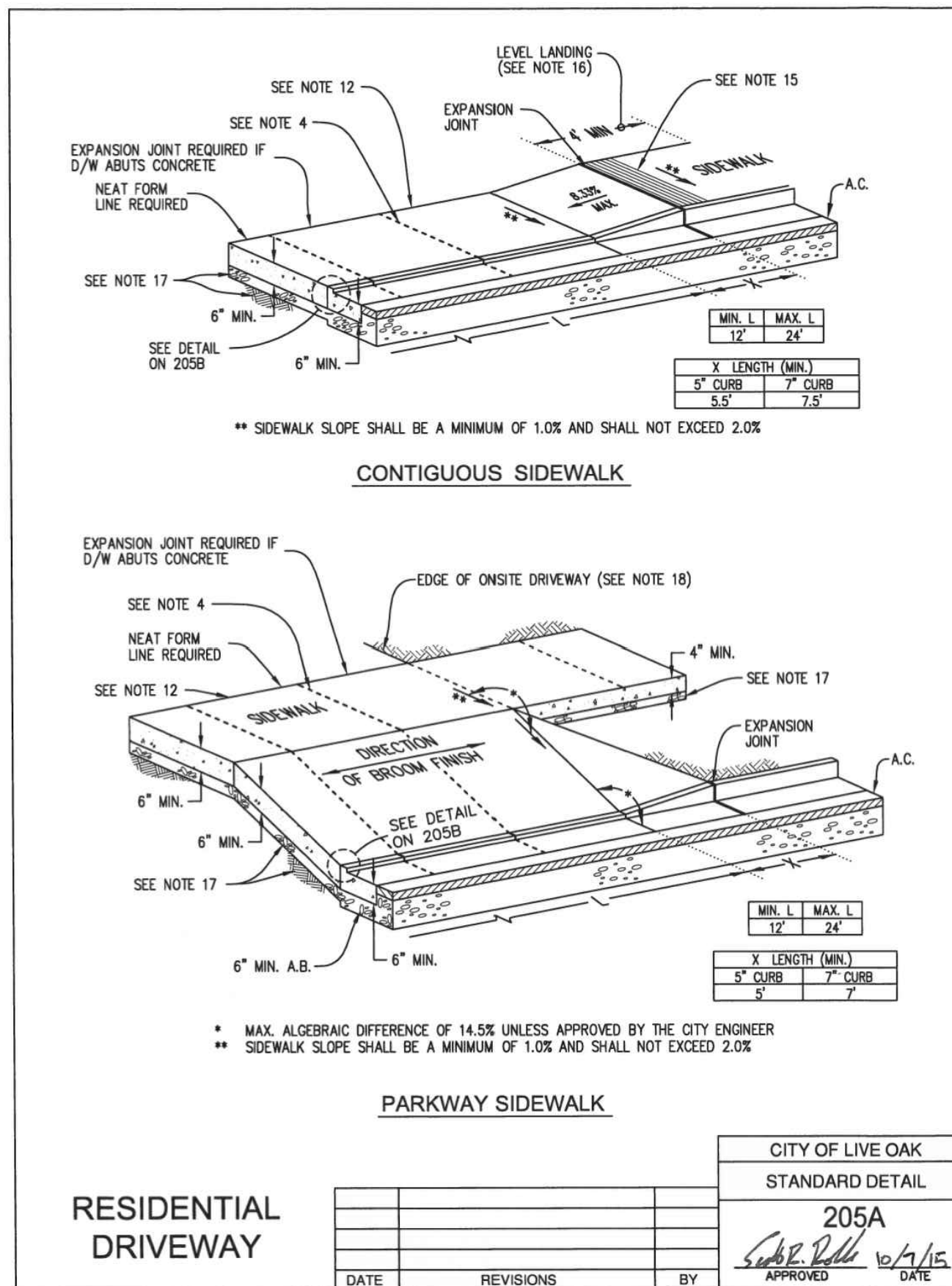
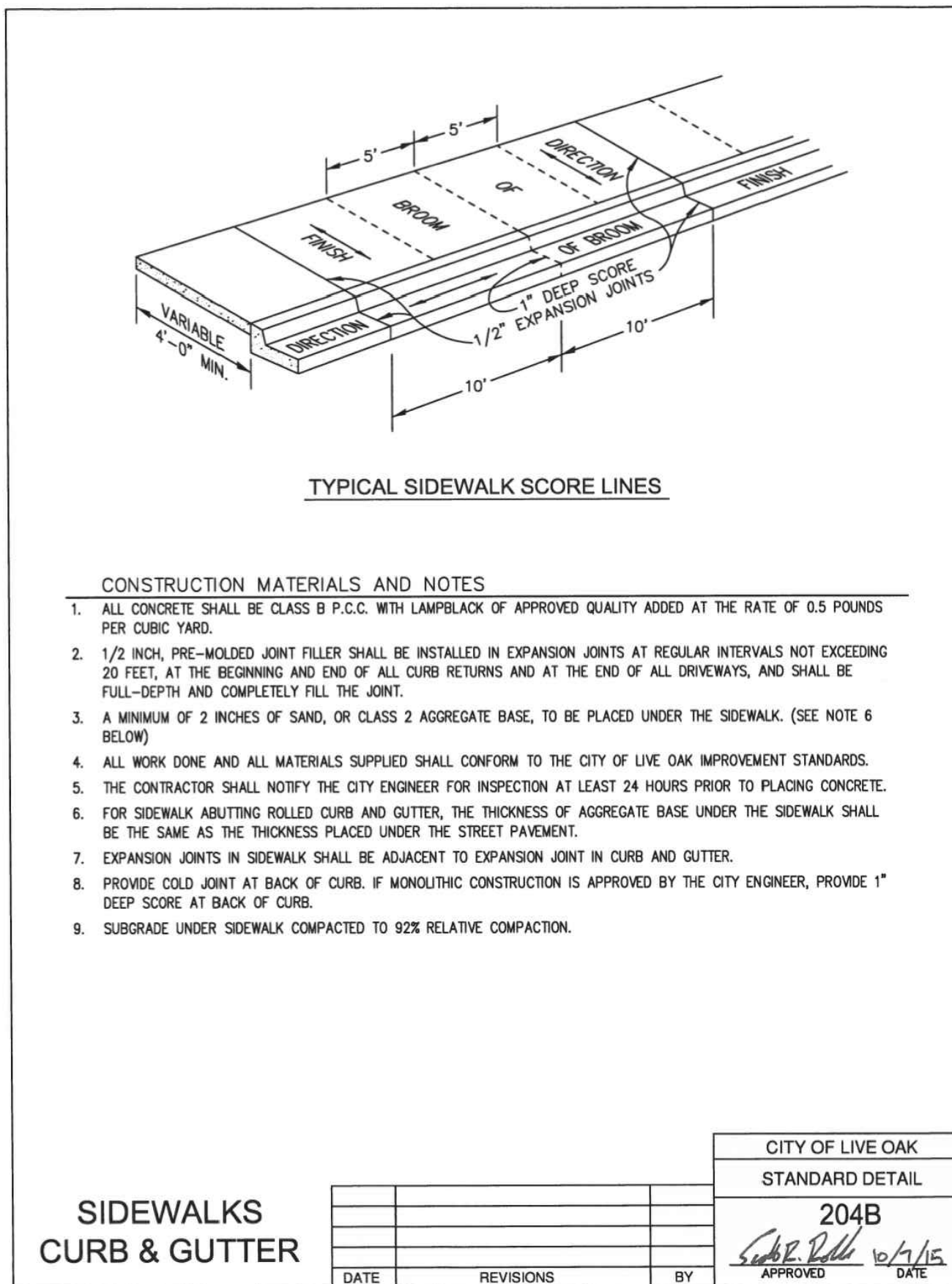
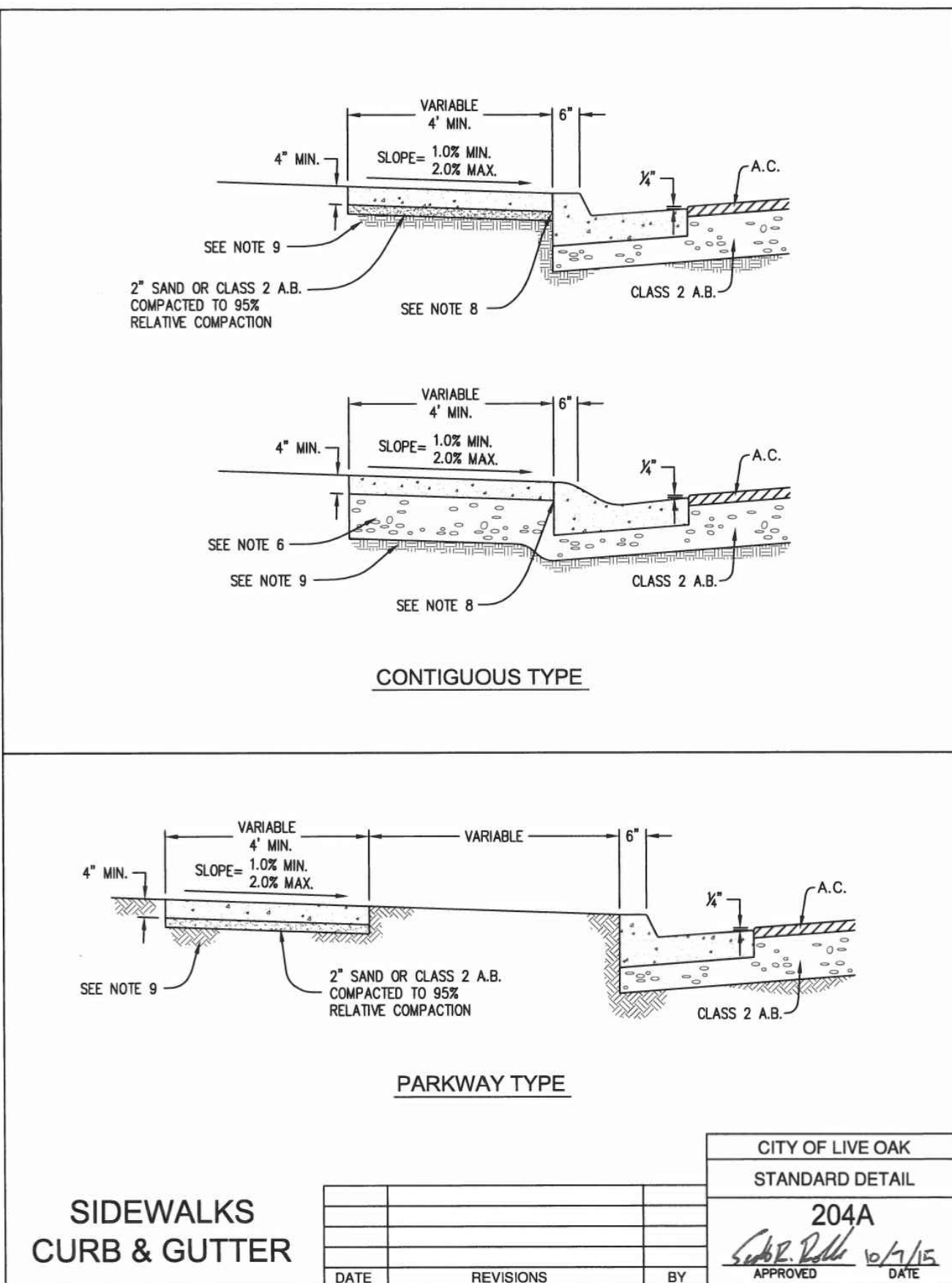
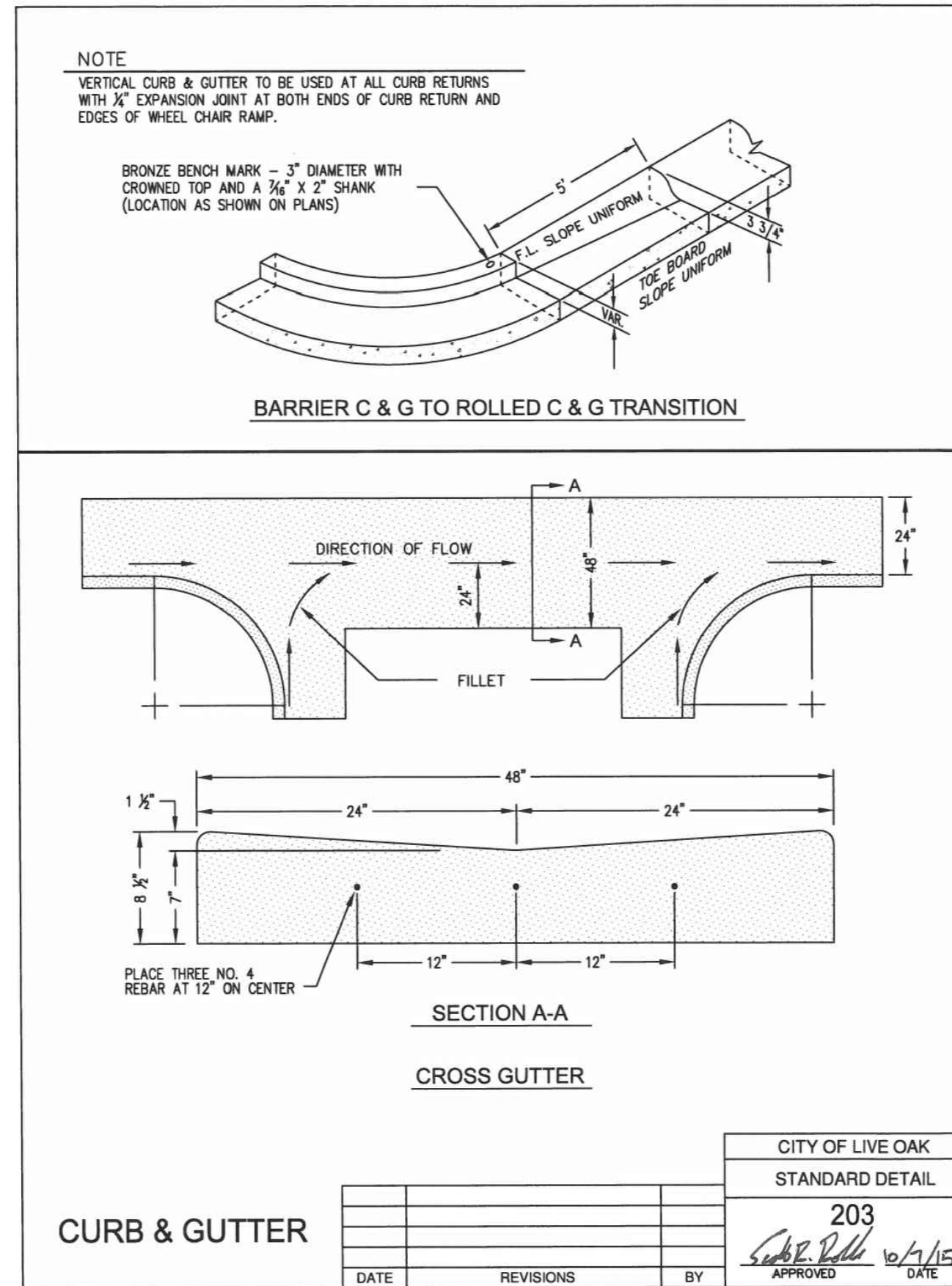
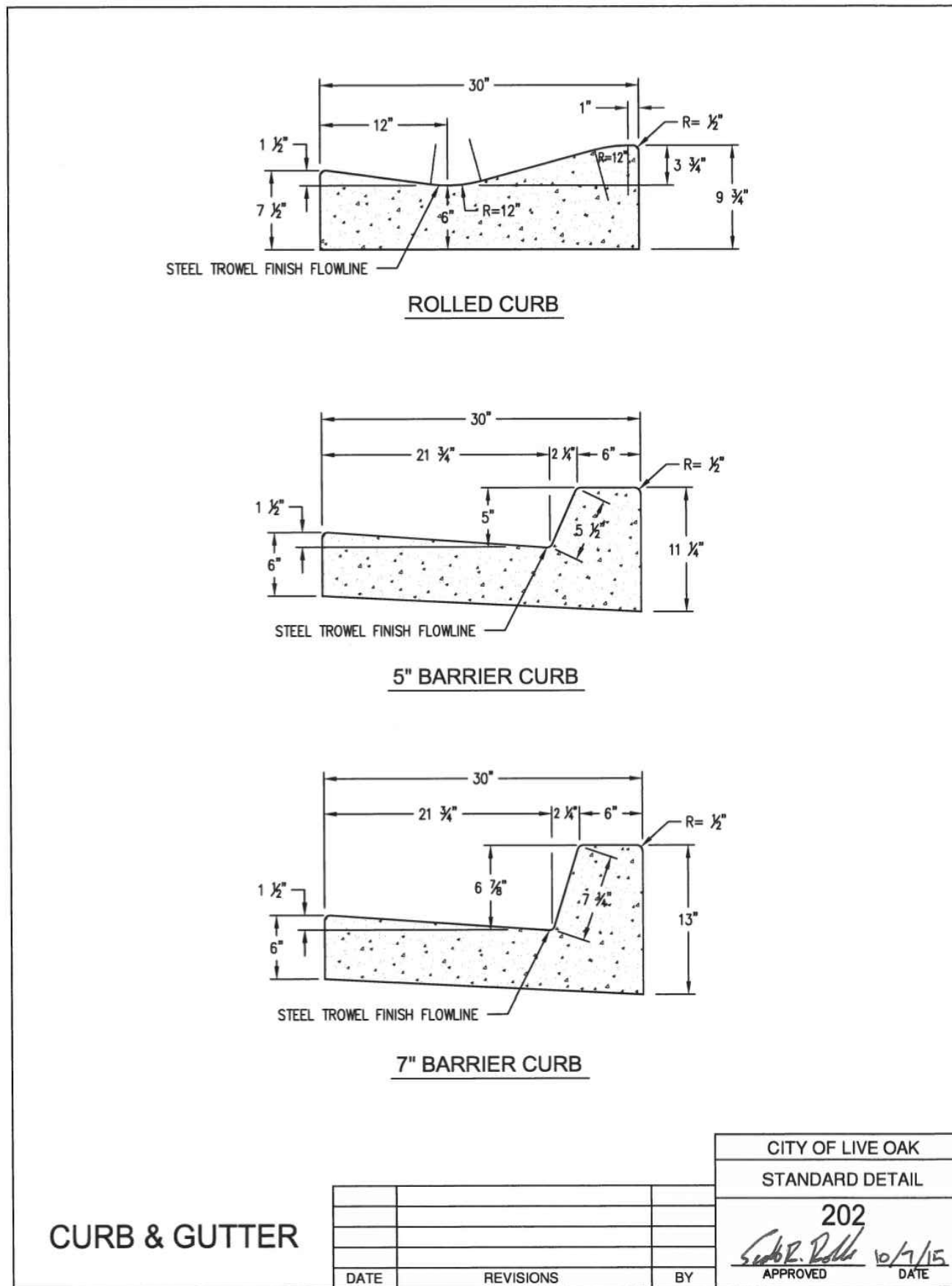
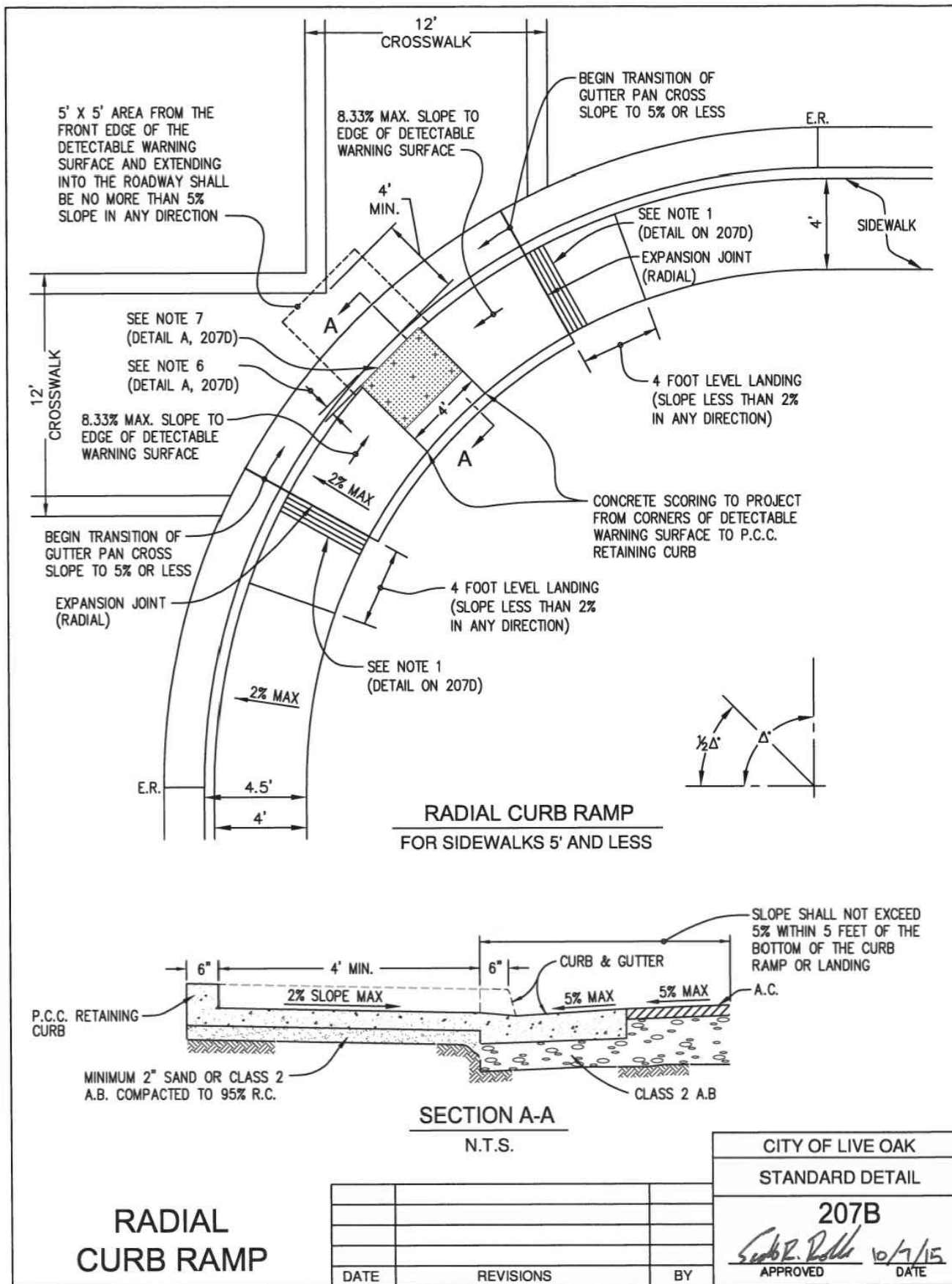
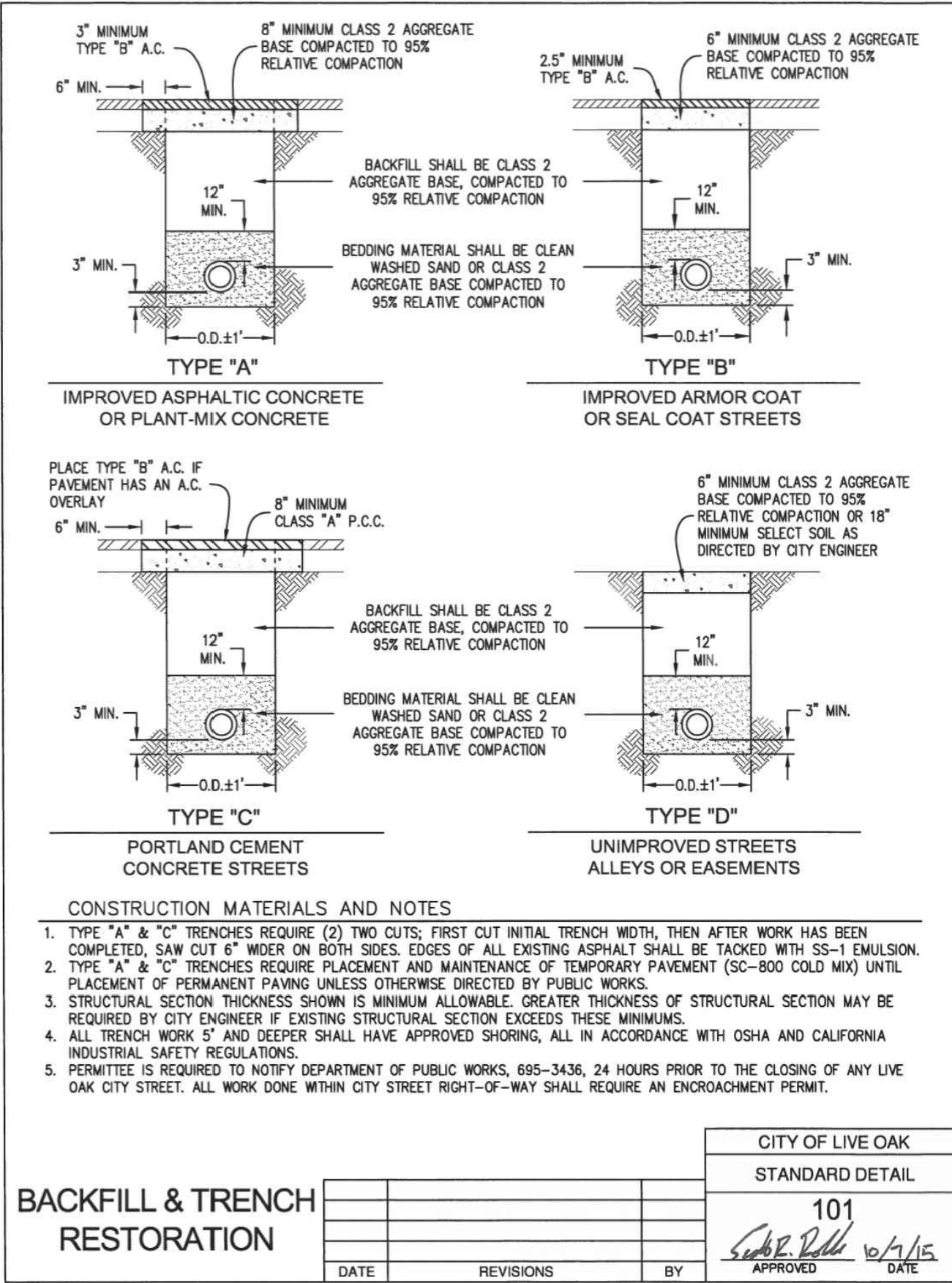
ALL AREAS THAT ARE USED TO STOCKPILE SOIL OR MATERIALS SHALL BE COVERED WITH PLASTIC AND PROTECTED WITH A TEMPORARY PERIMETER SEDIMENT BARRIER WHEN NOT ACTIVELY BEING USED, AT THE END OF EACH DAY, AND PRIOR TO THE ONSET OF PRECIPITATION.

NOTES

- THE LOCATION AND EXTENT OF EROSION CONTROL FACILITIES SHOWN ON THIS PLAN SHALL BE ADJUSTED AND MODIFIED BY THE CONTRACTOR TO ADAPT TO CHANGING SITE CONDITIONS AND THE PHASING OF VARIOUS CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMISSIONS FOR THE USE OF PROPERTY AS A TEMPORARY STAGING YARD DURING THE PROJECT CONSTRUCTION, AND SHALL SUBMIT AN EROSION SEDIMENT PLAN LAYOUT THAT IDENTIFIES THE LOCATION OF THE CRUSHED ROCK ENTRANCE, TO THE CITY PRIOR TO BEGINNING CONSTRUCTION AND THE DELIVERY OF MATERIALS.

ESCP NOTES

- NO SOIL DISTURBANCE SHALL OCCUR PRIOR TO OBTAINING A BUILDING OR GRADING PERMIT.
- PERSON RESPONSIBLE FOR EROSION CONTROL: TBD
- EROSION CONTROL MEASURES SHALL BE IN PLACE BETWEEN OCTOBER 15TH AND APRIL 15TH, OR WHEN RAIN IS FORECASTED.
- SOILS TRACKED OFF SITE INTO STREETS SHALL BE CLEANED UP AT THE END OF EACH WORK DAY.
- ALL STOCKPILE MATERIALS SHALL BE COVERED AND PROTECTED WITH A TEMPORARY PERIMETER SEDIMENT BARRIER WHEN NOT ACTIVELY BEING USED, AT THE END OF EACH DAY AND PRIOR TO THE ONSET OF PRECIPITATION.
- THE EROSION CONTROL PLAN SHALL BE RE-EVALUATED AND ADJUSTED ACCORDINGLY AS THE SITE CHANGES AND AFTER RAIN EVENTS.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED.
- RESIDUE FROM PORTLAND CEMENT CONCRETE OR ASPHALT CONCRETE GRINDING/SAWCUTTING OPERATIONS SHALL BE PICKED UP BY MEANS OF A VACUUM SYSTEM OR SWEEPING AND SHALL NOT BE ALLOWED TO FLOW INTO THE STORM DRAINAGE SYSTEM.
- ONSITE VEHICLE AND EQUIPMENT MAINTENANCE, CLEANING, AND FUELING IS DISCOURAGED. WHEN ONE OF THESE ACTIVITIES MUST OCCUR ONSITE THE WORK SHALL TAKE PLACE WITHIN A BERMED AREA PROTECTED FROM RUNOFF AT LEAST 50 FEET FROM DRAINAGE FACILITIES. SPILL CLEAN-UP MATERIALS SHALL BE AVAILABLE PRIOR TO ANY OF THESE ACTIVITIES TAKING PLACE.
- VEHICLES AND EQUIPMENT STORED ONSITE SHALL BE PLACED WITHIN A BERMED AREA PROTECTED FROM RUNOFF AT LEAST 50 FEET FROM DRAINAGE FACILITIES.
- ALL MATERIAL EXCAVATED OR GRADED SHALL BE SUFFICIENTLY WATERED TO PREVENT EXCESSIVE AMOUNTS OF DUST. WATERING, WITH COMPLETE COVERAGE, SHALL OCCUR AS NECESSARY.
- ACCESS TO THE SITE SHALL BE LIMITED TO ONE LOCATION. THE ACCESS POINT AND ADJACENT ROADWAY SHALL BE CLEANED DAILY TO PREVENT THE OFFSITE TRACKING OF SEDIMENT AND/OR MUD. THE CONTRACTOR SHALL CONSTRUCT A 12" THICK CRUSHED STONE (3"-6") DRIVEWAY ON GEOTEXTILE FABRIC AND TIRE WASH IF VEHICLES AND EQUIPMENT ARE ALLOWED TO ACCESS NON-PAVED AREAS. THE CONTRACTOR SHALL CLEAN AND/OR REPLACE THE DRIVEWAY AS NEEDED TO PREVENT THE OFFSITE TRACKING OF SEDIMENT AND/OR MUD.



APPROVED
DATE
OCTOBER, 2023

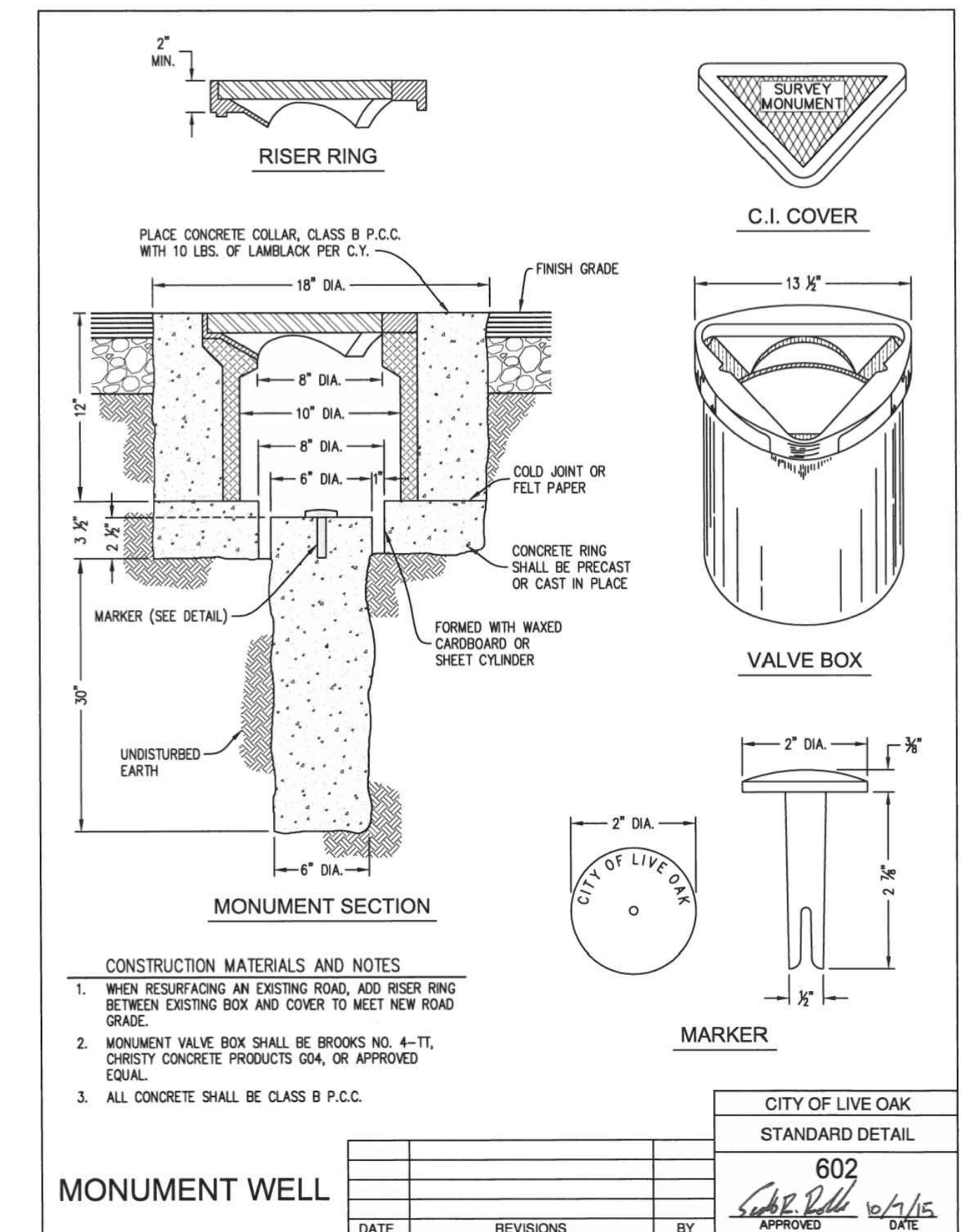
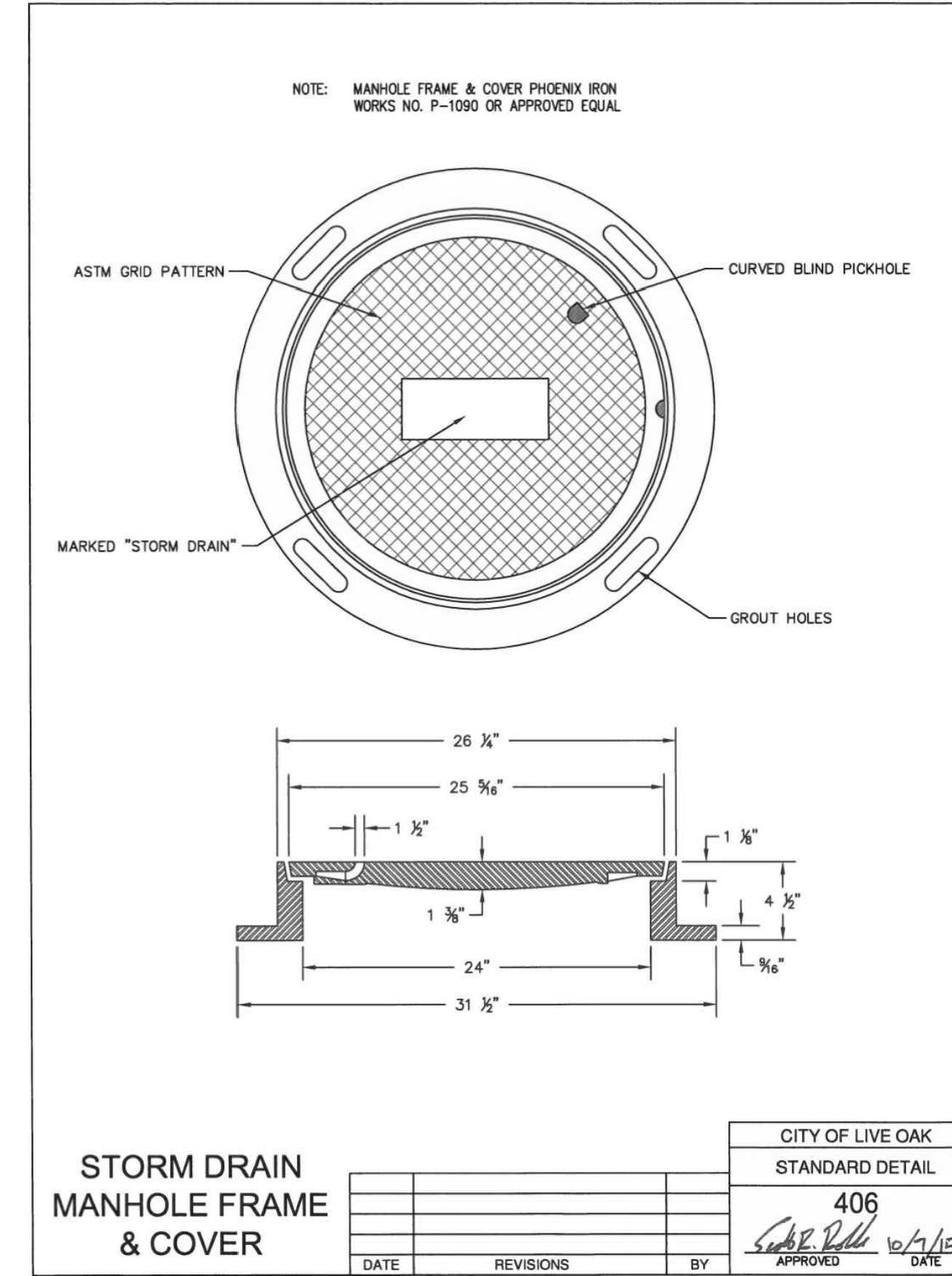
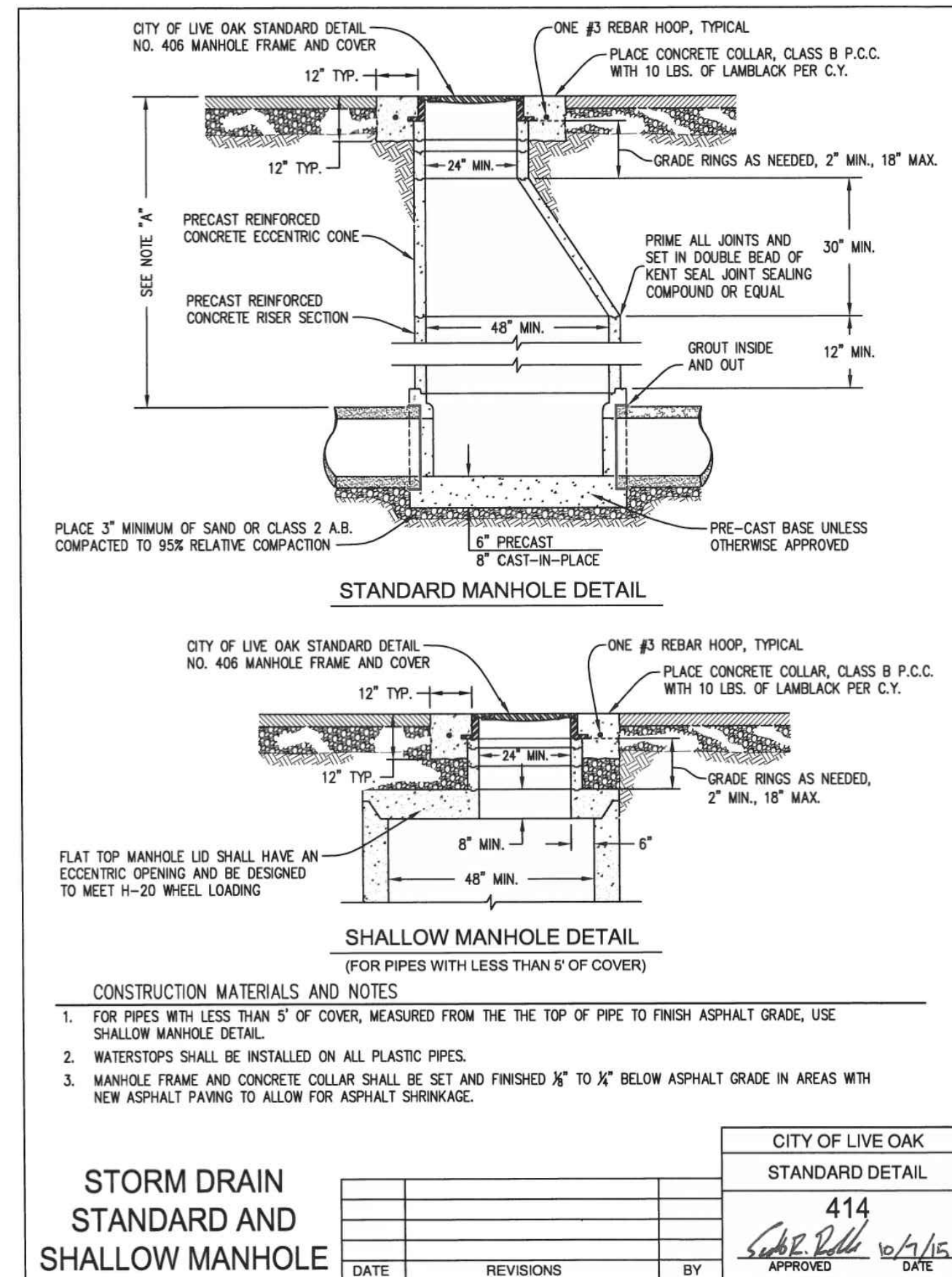
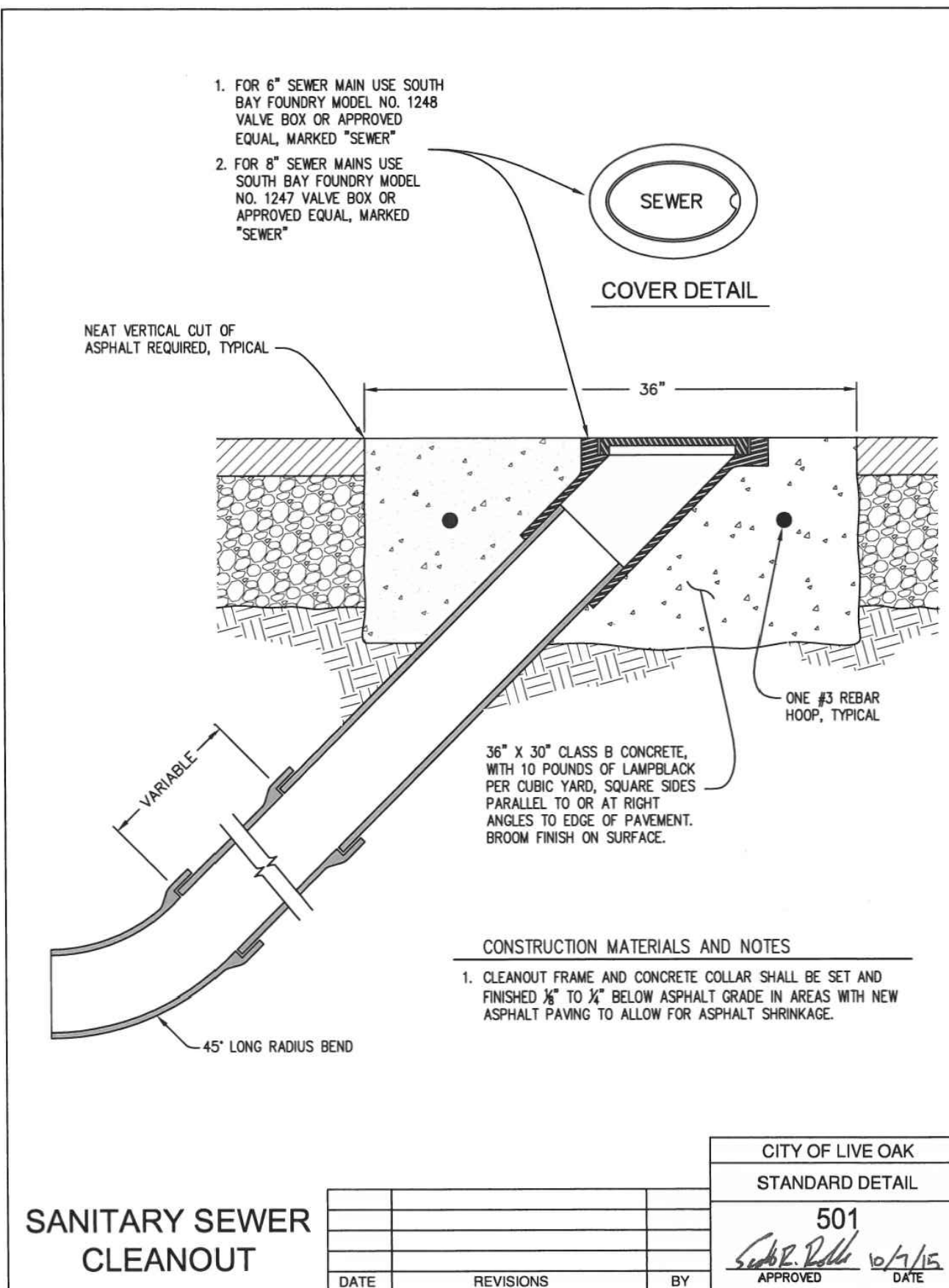
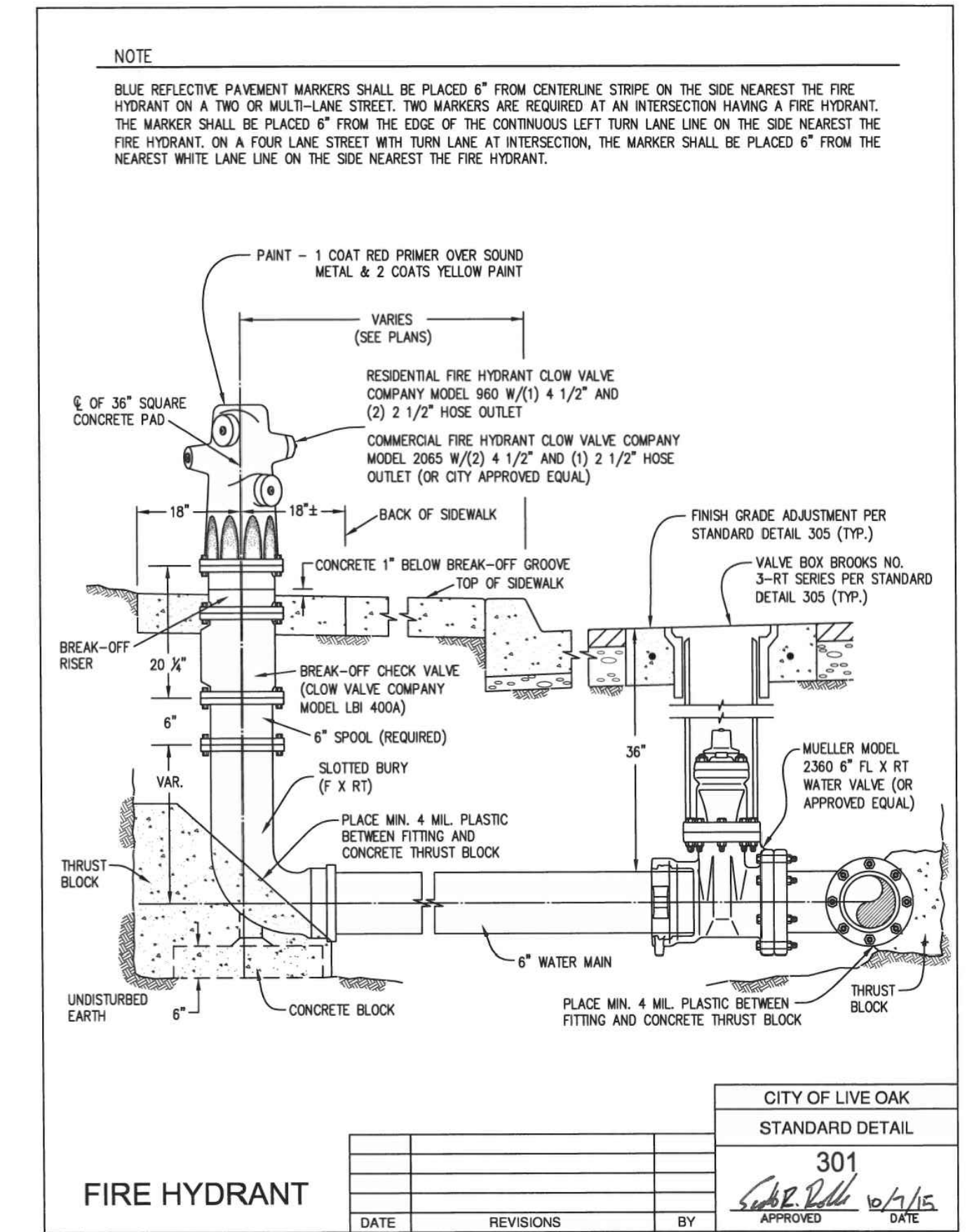
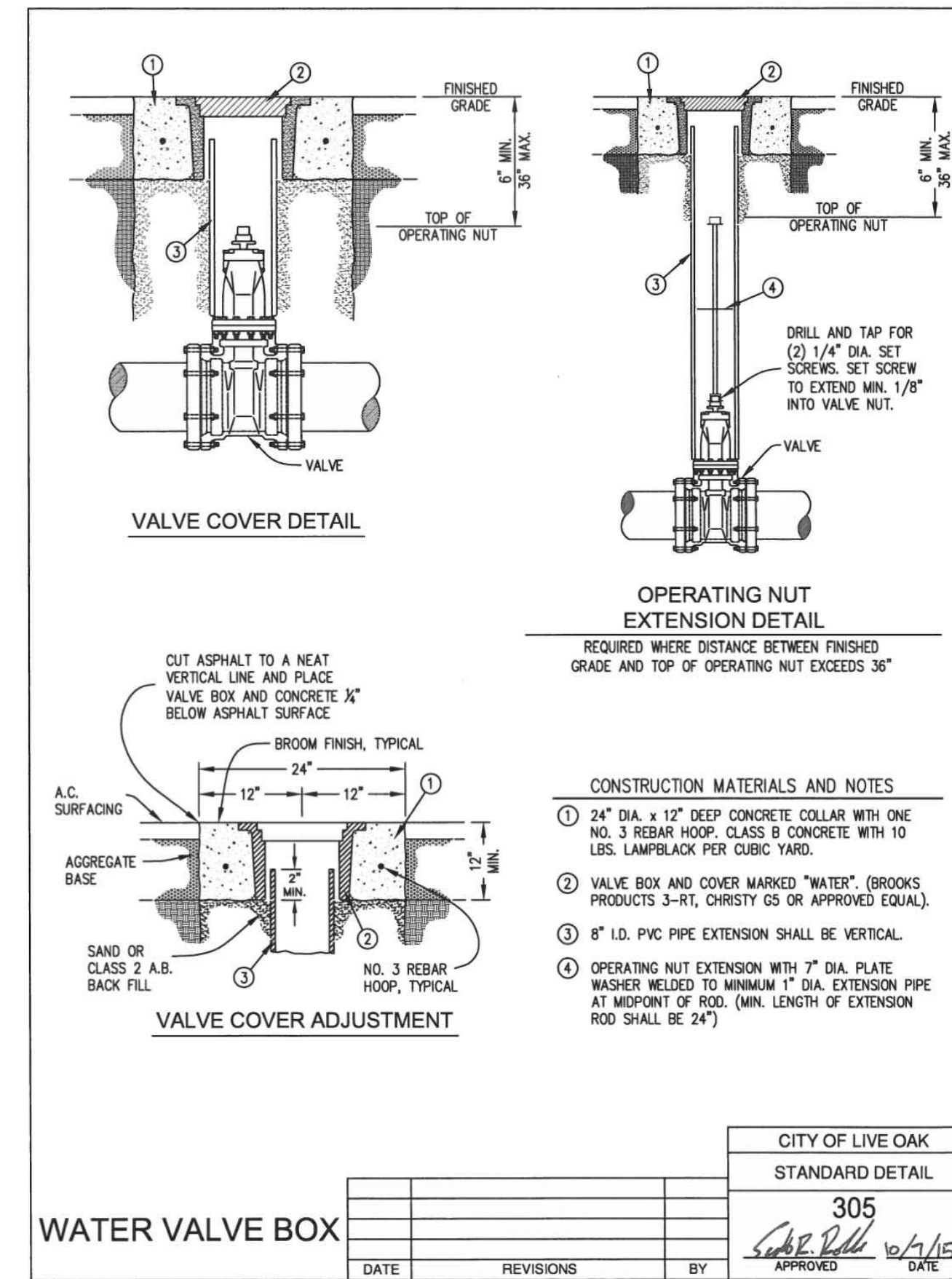
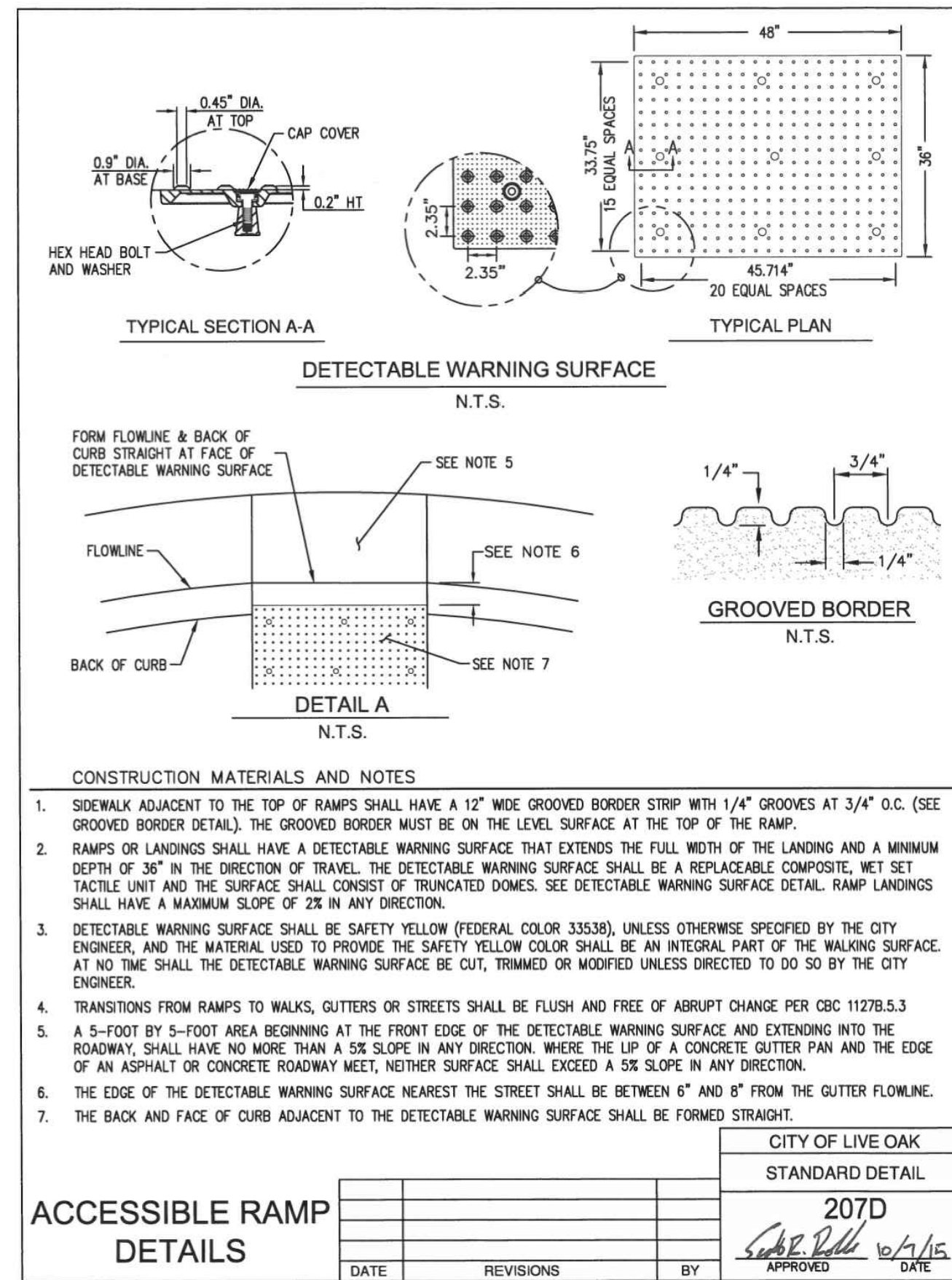
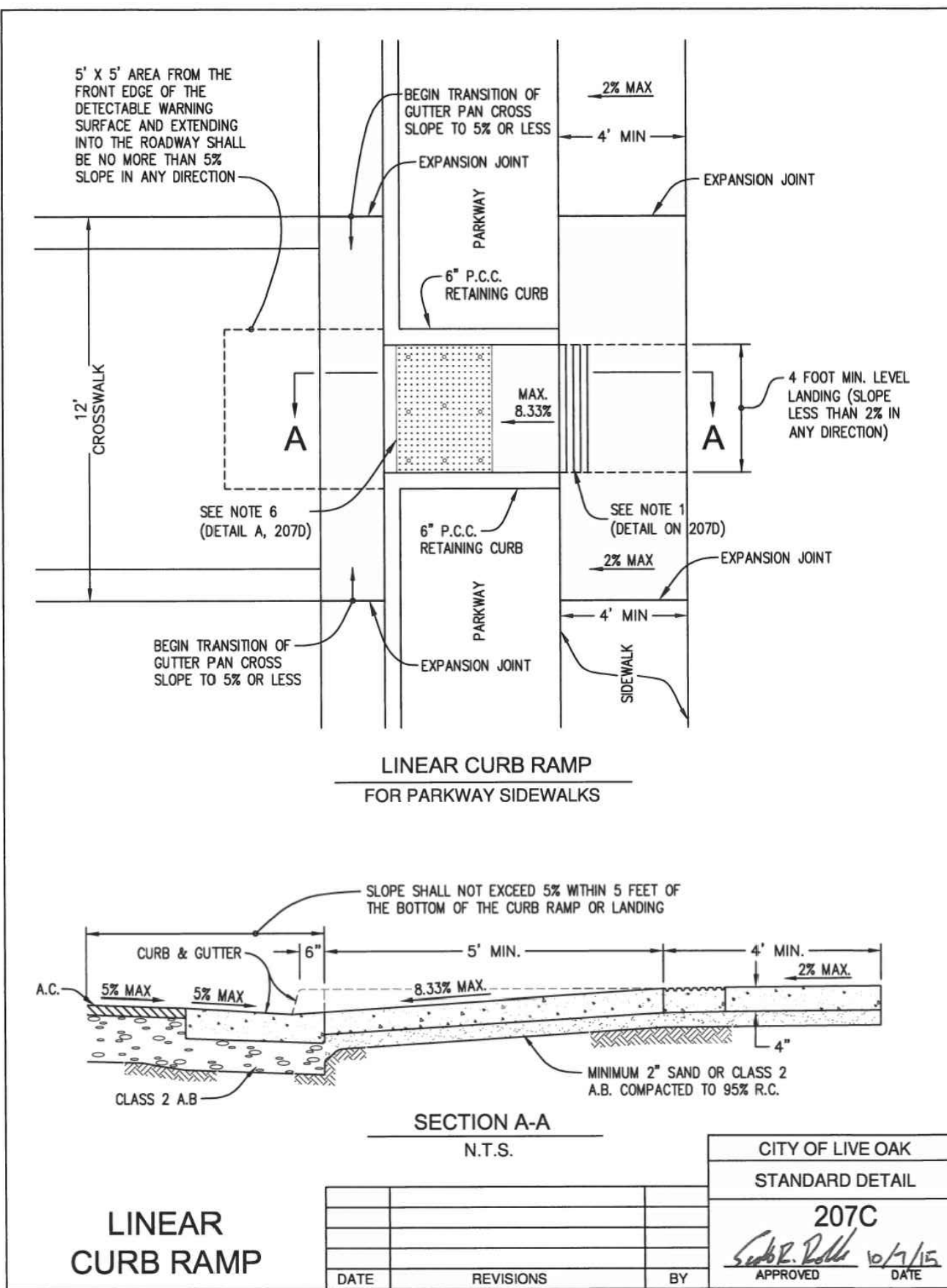
PREPARED FOR :

CITY OF LIVE OAK

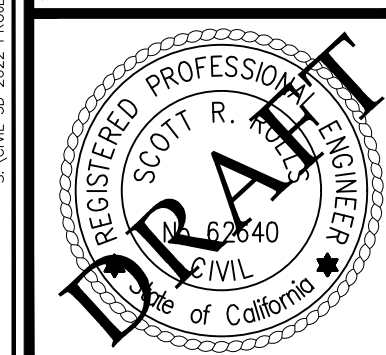
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PENNINGTON ROAD OVERLAY PROJECT - EAST
DETAILS

DESIGNED	DJB
DRAWN	CAD
CHECKED	SRR
DRAWING NO.	14 OF 15
JOB NO.	22033



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APPROVED
DATE
OCTOBER, 2023

PREPARED FOR:

CITY OF LIVE OAK

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ROLLS ANDERSON & ROLL
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115 YELLOWSTONE DRIVE • CHICO, CALIFORNIA 95973-5811 • TELEPHONE 530-895-1422

PENNINGTON ROAD OVERLAY PROJECT - EAST
DETAILS

DESIGNED: DJB
DRAWN: CAD
CHECKED: SRR
DRAWING NO.: 15 OF 15
JOB NO.: 22033



City of Live Oak Report to City Council

Meeting Date:	October 18, 2023
Title:	Approval of Contracts with Eco Green Solutions
Contact Information:	Anthony Mitchell anthony.m@ecogreen-solutions.net 1-949-702-8431 Luis Cibrian, Parks and Recreation Director Ron Walker, Public Works Director
Location:	City wide
Background:	Eco Green Solutions has helped thousands of companies save energy and cut cost by converting their lighting to LED. \$0 out of pocket. Eco Green Solutions is an energy services company and Trade Professional and Authorized agent with SCE, SDGE & PG&E specializing in helping companies leverage the utility company programs to take advantage of all the rebates and incentives available.
Fiscal Impacts:	PG&E Financing supplement to the energy efficient retrofit program application. -Payback through the bill. Dramatically reduce energy bills with 60-90% energy savings on lighting portion of the bill. LED lights produce little to no heat (compared to other bulbs), so you save on cooling cost. Eliminates high cost of light bulb replacement and maintenance. Increased safety due to improved light levels & quality of light. Enhanced value of your property and curbside appeal. No money out of pocket. Several substantial tax incentives available for upgrading lights. All paperwork taken care of by Eco Green Solutions. Helping to save the environment. Separate funds than prop 39 (school/districts)

Recommendation: Approve new contracts with Eco Green Solutions.

Attachments:

EcoGreen Statement of Work - City of Live Oak - City Hall

Quote 200477 - City of Live Oak - City Hall - AM - OBF - R3 11.15.22 - Audit

Quote 200477 - City of Live Oak - City Hall - AM - OBF - R3 11.15.22 - Quote

Quote 200477 - City of Live Oak - City Hall - AM - OBF - R4 1.17.23 - Audit Only

Quote 200477 - City of Live Oak - City Hall - AM - OBF - R4 1.17.23 - Quote Only

EcoGreen Statement of Work - City of Live Oak - MS 2 - Sheriff & Community

Quote 200480 - City of Live Oak - MS 2 - Sheriff & Community - AM - OBF - 10.21.22 - Audit

Quote 200480 - City of Live Oak - MS 2 - Sheriff & Community - AM - OBF - 10.21.22 - Quote

EcoGreen Statement of Work - City of Live Oak - WWTP

Quote 200479 - City of Live Oak - WWTP - AM - OBF - R4 1.16.23 - Audit

Quote 200479 - City of Live Oak - WWTP - AM - OBF - R4 1.16.23 - Quote

Quote 200479 - City of Live Oak - WWTP - AM - OBF - R5 1.27.23 - Audit Only

Quote 200479 - City of Live Oak - WWTP - AM - OBF - R5 1.27.23 - Quote Only

14007 - OBF Agreement - City of Live Oak - MS 1 - Not Signed - 1.30.23

14010 - OBF Agreement - City of Live Oak - MS 2 - Sheriff & Community - Not Signed - 1.9.23

14013 - OBF Agreement - City of Live Oak - WWTP - Not Signed - 1.19.23



Statement of Work

1. **SCOPE OF WORK:** EcoGreen Solutions shall furnish all the materials and perform all of the work shown and/or described in the Energy Audit and Quote. EcoGreen Solutions is not responsible for touch up work i.e. – paint where replacement fixtures don't exactly match existing fixtures, ceiling tiles, etc...

a. **VFD/VSD installation:** If the project includes a VFD/VSD, standard installation costs include – VFD, startup, card, programming, installation of any conduit, running power, concrete footing (if needed), VFD mounting and interconnect to SCADA panel. Installation costs that are not included and would be an additional cost – wiring diagrams, fencing, gates, enclosures, relay box, controls.

2. **PROJECT COST:** The amount due for material and labor to be performed is \$35,749.12, subject to additions and deductions pursuant to authorized change orders/adjustment letters.

3. **PAYMENT & UTILITY FINANCING:** EcoGreen Solutions has worked with Customer to secure Utility financing on behalf of the Customer to fund payment of this project, of which, terms and payback periods are detailed in the Utility On-Bill Financing (OBF) documentation – PGE Project #/TIF # 14006.

Payment of the project shall be paid in the manner following:

Project Cost	\$35,749.12
Estimated Tax Benefit	\$0
Estimated Utility OBF	\$35,749.12
SUBTOTAL	\$0
Estimated Customer Out of Pocket Contribution	\$0

a. Customer understands that final utility rebate and OBF amounts issued may vary based on final installation counts and subject to additions and deductions pursuant to authorized change orders/adjustment letters.

b. Customer understands that should utility determine that OBF loan proceeds shall not be

issued due to customer's credit standing or has otherwise placed customer's repayment of the loan at risk, Customer shall be liable for payment of any product, labor, and installation due. This includes any product demos that aren't returned to EcoGreen Solutions.

c. **Notice to Proceed:** Once Utility On-Bill Financing is approved, if required, EcoGreen Solutions will provide LED demo fixture/lamps to assure proper light levels, color and aesthetics. Written confirmation from the Customer that demos are approved and approval to move forward with the ordering of product and installation will serve as formal Notice To Proceed.

4. GENERAL TERMS AND CONDITIONS

a. All work shall be completed in a workmanlike manner and in compliance with all building codes and other applicable laws.

b. To the extent required by law all work shall be performed by individuals duly licensed and authorized by law to perform the work.

c. EcoGreen Solutions may at its discretion engage subcontractors to perform work hereunder, provided EcoGreen Solutions shall fully pay said subcontractor and in all instances remain responsible for the proper completion of the project.

d. EcoGreen Solutions warrants it is adequately insured for injury to its employees and others incurring loss or injury as a result of the acts of EcoGreen Solutions or its employees and subcontractors.

e. Customer shall at its own expense obtain all permits necessary for the work to be performed.

f. EcoGreen Solutions agrees to remove all debris and leave the premises in clean condition unless instructed by Customer to do otherwise.

g. EcoGreen Solutions shall dispose of all hazardous lamps and tubes utilizing a proper recycling program unless instructed by Customer to do otherwise.

h. EcoGreen Solutions shall not be liable for any delay due to circumstances beyond its control including strikes, casualty or general unavailability of materials.

i. Customer is responsible for verification of fixture counts and hours of operation reflected in the Energy Audit.

5. HAZARDOUS CONDITIONS: In the event that EcoGreen Solutions discovers existing or developing spore or mold growth, asbestos or other potentially hazardous conditions at the Project location, EcoGreen Solutions will stop work and will not attempt to test, repair or remediate such conditions. At Customer's sole expense, Customer must arrange to have the hazardous condition removed by a third party in compliance with applicable laws within a reasonable period of time, or EcoGreen Solutions may cancel this project. If the project is canceled, Customer agrees to pay EcoGreen Solutions the costs of materials, labor and services provided through the date of cancellation.

6. WARRANTIES:

a. MANUFACTURER WARRANTIES. Products installed as part of the scope of work are covered by separate manufacturers' warranties (hereinafter, "Manufacturer Warranties"). EcoGreen Solutions will assign to Customer any Manufacturer Warranties in effect upon installation. EcoGreen Solutions will also provide Customer reasonable assistance in contacting manufacturers. If manufacturer files for bankruptcy or goes out of business, EcoGreen Solutions is not liable or responsible for continued warranty support.

b. LIMITED WARRANTY. EcoGreen Solutions provides a limited warranty of 90 days (the "Limited Warranty Period"), after the date of invoice. For the avoidance of doubt, this Limited Warranty does not cover parts already covered by the Manufacturer Warranties set forth in above. During the Limited Warranty Period, EcoGreen Solutions will at its expense repair or replace any parts or labor covered by the Limited Warranty.

c. OBTAIN WARRANTY SERVICE. To obtain warranty service, you must notify EcoGreen Solutions in writing or via email at repairs@ecogreen-solutions.net of any defect. Provided that the Warranty has not expired, has otherwise voided, or is subject to an exclusion, EcoGreen Solutions will repair or replace the defect within a reasonable time after you notify EcoGreen Solutions.

If a fixture fails, please take a photo and send it to repairs@ecogreen-solutions.net, and include location information in your email. The photo should be close up so we can properly match the product with the replacement. We will order replacement products and schedule the installation. If a product is in stock, EcoGreen Solutions will ship the replacement immediately. If the product is not in stock EcoGreen Solutions will order the replacement parts from the factory. Please be aware that some of our suppliers require 6-8 weeks lead time. EcoGreen Solutions does not cover shipping and handling for fixtures.

If a fixture has failed and is past our 3 months parts and labor period, EcoGreen Solutions will work with the factory to get the replacement material for you. We do not cover the cost of shipping and handling from the factory to our warehouse or to your location. If you do not have a qualified electrician to install the replacement product, please contact us at the email address above. A quote for the labor to install the product will be provided in 1-2 business days.

If a lamp fails, please follow the same procedure as for fixtures. EcoGreen Solutions will send Customer the replacement lamp. Labor is not covered for lamps. Shipping and handling also is not covered on warranty claims for lamps.

Warranty claims will not apply for:

- Product that has been modified by the customer.
- Product that was subject to misuse, vandalism or negligence.

IMPORTANT EcoGreen Solutions must receive the fixture/lamp/driver back once your product has been replaced. We can receive credit for the replacement product only if the factory receives the failed unit back. Failure to return the failed product to EcoGreen Solutions within 30 days will result in an invoice for the full retail price of the product.

If the failed product has been discontinued by the manufacturer and is no longer supported by a factory, EcoGreen Solutions will suggest a similar replacement LED fixture or lamp. EcoGreen Solutions cannot be held responsible for product lines that have been discontinued; however, we will make every effort to find a similarly performing product.

7. MAINTENANCE AND REPAIR: If the products require maintenance or repair that is not covered by the warranties set forth above, EcoGreen Solutions will not perform this work unless you enter into a separate agreement to perform these services at your expense.

ENERGY AUDIT

CITY OF LIVE OAK

CITY OF LIVE OAK - City Hall
9955 LIVE OAK BLVD
LIVE OAK, CA 95953
Acct: 9074702898; SAID: 9074702854

EcoGreen Sales Rep: Anthony Mitchell

Customer Contact: Aaron Plamer
Title of Contact: City manager
Customer Phone: 530-695-2112
Customer Email: apalmer@liveoakcity.org

Approx. Building Size 8,249 SF
Energy Rate \$ 0.30 /kWh
Interest Rate 0%



In Reference to Quote # 200477

EXISTING				Location		Suggested Replacements					Savings		
Existing	Watts/Fix	# of Fixtures	Existing Operating Hours/Day / Yr.	Building/Zone	Room/Area	Suggested Replacement	Watts/Fix	# of Fixtures	# of Lamps	Watts/bulbs Saved	Usage Saved	KWh Saved	Annual Savings
LED 11in Can w 1	w	13	11 7 / 4100	City Hall	Outside Perimeter	Skip	w	13		w			
LED 4ft deco linear w 2 T8	w	1	4 5 / 1043	City Hall	RR	Skip	w	1		w			
LED 4ft deco linear w 2 T8	w	1	4 5 / 1043	City Hall	RR	Skip	w	1		w			
LED 4ft wrap w 2 T8	w	2	4 5 / 1043	City Hall	Hallway by RR	Skip	w	2		w			
lowbay Jelly Jar w1 CFL	20 w	1	8 5 / 2086	City Hall	2nd Floor Exit Stairs	xbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, DI	14 w	1	1	6 w	30.0%	12.51	\$3.74
Incandescent Bulb	60 w	1	4 5 / 1043	City Hall	2nd Floor Closet	xbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, DI	14 w	1	1	46 w	76.7%	47.97	\$14.35
Flood w1 mh	190 w	1	11 7 / 4100	City Hall	Parking Lot	LED Flood Light, 3K, 4K, 5K, UNV, Yoke Mount	50 w	1	1	140 w	73.7%	573.96	\$171.71
4ft linear wrap w2 T8	59 w	2	4 5 / 1043	City Hall	2nd Floor Hallway	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	2	2	70 w	59.5%	73.21	\$21.90
4ft linear wrap w2 T8	59 w	1	4 5 / 1043	City Hall	2nd Floor RR	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	1	1	35 w	59.5%	36.60	\$10.95
4ft linear wrap w2 T8	59 w	1	4 5 / 1043	City Hall	2nd Floor RR	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	1	1	35 w	59.5%	36.60	\$10.95
4ft linear wrap w2 T8	59 w	1	4 5 / 1043	City Hall	2nd Floor Server Room	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	1	1	35 w	59.5%	36.60	\$10.95
6in can w1 incandescent	50 w	2	4 5 / 1043	City Hall	Printer Room	LED 6" Can Downlight, 3000K, 3500K, 4000K, REC	13 w	2	2	74 w	74.0%	77.17	\$23.09
7in Can w1 inc	50 w	3	11 7 / 4100	City Hall	Outside Perimeter	LED 6" Can Downlight, 3000K, 3500K, 4000K, REC	13 w	3	3	111 w	74.0%	455.06	\$136.14
2x2 w2 Utube T8	72 w	2	8 5 / 2086	City Hall	Main Floor	LED Troffer 2x2, Retrofit Kit, 4000K, UNV, REC	18 w	2	2	108 w	75.0%	225.26	\$67.39
2x4 box w2 T8	59 w	1	8 5 / 2086	City Hall	Uniform Room	LED Troffer 2x2, 35K, 4K, 5K, SMT Kit	39.1 w	1	1	20 w	33.7%	41.51	\$12.42
area light 1 hps	188 w	4	11 7 / 4100	City Hall	Parking Lot	LED Area Light, 5000K, UNV, PH w Square Pole Mount	70 w	4	4	472 w	62.8%	1,935.05	\$578.90
2x4 w2 T8	59 w	6	4 5 / 1043	City Hall	2nd Floor File Room	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	6	6	228 w	64.4%	237.77	\$71.13
2x4 w2 T8	59 w	4	8 5 / 2086	City Hall	2nd Floor Living Room Area	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	4	4	152 w	64.4%	317.03	\$94.84
2x4 w3 T8	89 w	3	8 5 / 2086	City Hall	City Hall Manger Office	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	3	3	204 w	76.4%	425.49	\$127.29
2x4 w3 T8	89 w	50	8 5 / 2086	City Hall	Main Floor	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	50	50	3,400 w	76.4%	7,091.43	\$2,121.50
2x4 w3 T8	89 w	2	8 5 / 2086	City Hall	Office	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	2	2	136 w	76.4%	283.66	\$84.88
2x4 w3 T8	89 w	3	8 5 / 2086	City Hall	Printer Room	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	3	3	204 w	76.4%	425.49	\$127.29
2x4 w3 T8	89 w	2	4 5 / 1043	City Hall	Storage Supplies	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	2	2	136 w	76.4%	141.83	\$42.43
3ft linear w 1 T12	26 w	4	8 5 / 2086	City Hall	2nd Floor Exit Stairs (1&2)	LED 3' Linear Fixture, 4000K, UNV	22.8 w	4	4	13 w	12.3%	26.70	\$7.99
3ft linear w1 T12	26 w	1	4 5 / 1043	City Hall	2nd Floor RR	LED 3' Linear Fixture, 4000K, UNV	22.8 w	1	1	3 w	12.3%	3.34	\$1.00
10in can w 1 CFL	33 w	4	8 5 / 2086	City Hall	Main Entrance (1)	ED 10" Can Downlight, 3000K,3500K,4000K,4100K, UNV, RE	30 w	4	4	12 w	9.1%	25.03	\$7.49
10in can w1 CFL	33 w	2	8 5 / 2086	City Hall	Main Entrance (2)	ED 10" Can Downlight, 3000K,3500K,4000K,4100K, UNV, RE	30 w	2	2	6 w	9.1%	12.51	\$3.74
4ft linear w1 T8	31 w	1	4 5 / 1043	City Hall	2nd Floor RR	LED 4' Linear Fixture, 4000K, UNV, SMT	18 w	1	1	13 w	41.9%	13.56	\$4.06
4ft linear w1 T12	46 w	2	4 5 / 1043	City Hall	Electrical Room	LED 4' Linear Fixture, 4000K, UNV, SMT	18 w	2	2	56 w	60.9%	58.40	\$17.47
8ft linear w 2 4ft T8	59 w	2	4 5 / 1043	City Hall	File Room	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w	2	2	42 w	35.6%	43.80	\$13.10
8ft linear w4 4ft T12	112 w	1	4 5 / 1043	City Hall	Storage Supplies	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w	1	1	74 w	66.1%	77.17	\$23.09
Coil CFL	17 w	3	8 5 / 2086	City Hall	2nd Floor Hallway	LED A19, 4100K, 120v	6 w	3	3	33 w	64.7%	68.83	\$20.59
Deco light w 4 Coil CFL	68 w	3	8 5 / 2086	City Hall	Main Floor	LED A19, 4100K, 120v	24 w	3	12	132 w	64.7%	275.31	\$82.38
wallpack w1 par	100 w	2	11 7 / 4100	City Hall	Outside Perimeter	LED PAR30, 5000K, Long Neck	10.5 w	2	2	179 w	89.5%	733.84	\$219.54
	w		/				w			w			
	w		/				w			w			
Totals		132	Ave: 2457				w	132		6,175 w	70.4%	13,812.69	\$4,132.27

6,175	Estimated Watts Saved	Total Project Cost	\$31,606.73	Approximate Energy Savings Per Month	\$344.36
13,813	Estimated Annual kWh Saved	Total After Rebate/Incentive Project Cost	\$31,606.73	Estimated Energy Savings Per Year	\$4,132.27
1.7	Estimated Avg Annual Res Powered by Savings	****Estimated Program Payback Period Yrs.	7.65	**Estimated Total Savings Over 5 Years	\$23,293.97
10	Estimated Annual CO2 Savings (MT)			** Estimated Total Savings After 10 Years	\$54,466.55
-	Estimated Btu Savings Per Month			Estimated Energy Rebate	\$0.00
70.4%	Estimated Average Electrical Savings			Estimated IRS Tax Deduction 179D Available	\$4,949.52
				***Estimated Federal Tax Savings	\$1,732.33
7.65	Estimated Payback Period Yrs. - No Rebates, Tax Deductions or Bulb Replacement Savings			Estimated Bulb Replacement Savings Per Year	\$169.24
6.95	Estimated Payback Period Yrs. Fully Comprehensive^			^^ Estimated Bulb Replacement Savings Per Avg. Est. Life of LED	\$16,670.73
				Estimated Loan Payment	\$339.86

*** Based on IRS 179D Deduction @ 35% federal tax rate

****Program Payback Period Yrs. = (Total Project Cost - Available Program Rebates or Incentives) / Estimated \$ Saved per Year

^Payback Period Yrs. = (Total Project Cost - Available Rebate or Incentive - Tax Savings) / (Estimated Savings Per Year + Bulb Replacement Savings Per Yr.)

^^Based on industry standard LED lifespan of 50,000 hrs.

NOTE: Attached calculations do not include depreciation deduction for project cost.

*Payment is based on a 7.65 year loan at 0% interest OAC, actual may vary.

** Reflects energy savings per year increasing at industry standard 6% per year + Bulb Replacement



CITY OF LIVE OAK
 CITY OF LIVE OAK - City Hall
 9955 LIVE OAK BLVD
 LIVE OAK, CA 95953

Acct: 9074702898; SAID: 9074702854

27671 La Paz Rd, Suite 100
 Laguna Niguel, CA. 92677
info@ecogreen-solutions.net
 (949) 364 - 6800

Quote
 Quote # 200477
 DATE 10/17/2022

Quotes are valid for 30 days from the above date.

Light EPN	INT/ EXT	DESCRIPTION	QTY*	Unit Price	Amount
EGCL-TC30-10"-CS-UNV-REC	Interior	LED 10" Can Downlight, 3000K,3500K,4000K,4100K, UNV, REC 30 w	6	\$165.00	\$990.00
EGLN-ML23.86-4ft-CS-UNV-SMT-WRP	Interior	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV 23.86 w	5	\$179.00	\$895.00
EG22-ML18-4000-UNV-REC	Interior	LED Troffer 2x2,Retrofit Kit 4000K, UNV, REC 18 w	2	\$135.00	\$270.00
EG22-MLWS-CS-UNV-VT	Interior	LED Troffer 2x2, 35K, 4K, 5K, SMT Kit 39.1 w	1	\$269.00	\$269.00
EG24-SF21-4000-UNV-REC	Interior	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC 21 w	70	\$149.00	\$10,430.00
EGLN-SI27-3ft-4000-UNV	Interior	LED 3' Linear Fixture, 4000K, UNV 22.8 w	5	\$129.00	\$645.00
EGLN-TC18-4ft-4000-UNV-SMT	Interior	LED 4' Linear Fixture, 4000K, UNV, SMT 18 w	3	\$115.00	\$345.00
EGCL-ML13-6"-CS-UNV-REC	Interior	LED 6" Can Downlight,3000K, 3500K, 4000K, REC 13 w	2	\$105.00	\$210.00
EGCL-ML13-6"-CS-UNV-REC	Exterior	LED 6" Can Downlight,3000K, 3500K, 4000K, REC 13 w	3	\$105.00	\$315.00
EGLN-TC38-8ft-4000-UNV-SMT-D	Interior	LED 8' Linear Fixture, 4000K, UNV, SMT 38 w	3	\$149.00	\$447.00
EGLA-TCA19-6-4100-120v-E26	Interior	LED A19, 4100K, 120v 6 w	15	\$7.79	\$116.85
EGLA-TCP3010.5-5000-LN	Exterior	LED PAR30, 5000K, Long Neck 10.5 w	2	\$21.97	\$43.94
EGFL-HL50-CS-UNV-YM	Exterior	LED Flood Light, 3K, 4K, 5K, UNV, Yoke Mount 50 w	1	\$139.00	\$139.00
EGLB-EN14-11"-CS-UNV-RND	Interior	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, D 14 w	2	\$89.00	\$178.00
EGAL-RL70-5000-UNV-PH-SP	Exterior	LED Area Light, 5000K, UNV, PH w/ Square Pole Mount 70 w	4	\$335.00	\$1,340.00

TERMS AND CONDITIONS

WHEN SIGNED OR APPROVED BY CLIENT, THIS FORM BECOMES AN OFFICIAL ORDER AND A LEGALLY BINDING COMMITMENT SUBJECT TO THE TERMS AND CONDITIONS OF THIS FORM. BY SIGNING THIS FORM, CUSTOMER AGREES TO HAVE ECOGREEN SOLUTIONS PURCHASE AND INSTALL THE PRODUCTS LISTED ABOVE. All returned checks are subject to a \$20 service charge. If this invoice is not paid in full when due, a 1.5% per month late charge will be imposed. In this event, customer will be liable to pay reasonable collection charge, attorney fee and court cost. Warranty to be serviced by factory (see EcoGreen Scope of Work and warranty statement provided by the factory).

SIGNATURE: _____

DATE: _____

* All quantities to be verified by owner	SUBTOTAL	\$16,633.79
	LABOR	\$8,732.31
	SALES TAX	Included
	ADMINISTRATION & INSURANCE	\$582.18
(Brackets, Wiring, Sockets, Travel, Tiewire, Screws, Lifts, Lamp Recycling / Disposal, Shipping, Package, ETC.)	MISC. CHARGES	\$4,158.45
	ICP Developer/Engineering Cost	\$1,500.00
	TOTAL PROJECT COST	\$31,606.73
	Estimated IRS Federal Tax Deduction per 179D:	\$4,949.52
	Estimated Annual Energy Savings:	\$4,132.27

ENERGY AUDIT

CITY OF LIVE OAK

CITY OF LIVE OAK - City Hall
9955 LIVE OAK BLVD
LIVE OAK, CA 95953
Acct: 9074702898; SAID: 9074702854

EcoGreen Sales Rep: Anthony Mitchell

Customer Contact: Aaron Plamer
Title of Contact: City manager
Customer Phone: 530-695-2112
Customer Email: apalmer@liveoakcity.org

Approx. Building Size 8,249 SF
Energy Rate \$ 0.30 /kWh
Interest Rate 0%



In Reference to Quote # 200477

EXISTING				Location		Suggested Replacements				Savings			
Existing	Watts/Fix	# of Fixtures	Existing Operating Hours-Day / Yr.	Building/Zone	Room/Area	Suggested Replacement	Watts/Fix	# of Fixtures	# of Lamps	Watts/bulbs Saved	Usage Saved	KWh Saved	Annual Savings
LED 11in Can w 1	w	13	11 7 / 4100	City Hall	Outside Perimeter	Skip	w	13		w			
LED 4ft deco linear w 2 T8	w	1	4 5 / 1043	City Hall	RR	Skip	w	1		w			
LED 4ft deco linear w 2 T8	w	1	4 5 / 1043	City Hall	RR	Skip	w	1		w			
LED 4ft wrap w 2 T8	w	2	4 5 / 1043	City Hall	Halfway by RR	Skip	w	2		w			
lowbay Jelly Jar w1 CFL	20 w	1	8 5 / 2086	City Hall	2nd Floor Exit Stairs	3D Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	6 w	30.0%	12.51	\$3.74
Incandescent Bulb	60 w	1	4 5 / 1043	City Hall	2nd Floor Closet	3D Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, Dimmable	14 w	1	1	46 w	76.7%	47.97	\$14.35
Flood w1 mh	190 w	1	11 7 / 4100	City Hall	Parking Lot	LED Flood Light, 3K, 4K, 5K, UNV, Yoke Mount	50 w	1	1	140 w	73.7%	573.96	\$171.71
4ft linear wrap w2 T8	59 w	2	4 5 / 1043	City Hall	2nd Floor Hallway	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	2	2	70 w	59.5%	73.21	\$21.90
4ft linear wrap w2 T8	59 w	1	4 5 / 1043	City Hall	2nd Floor RR	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	1	1	35 w	59.5%	36.60	\$10.95
4ft linear wrap w2 T8	59 w	1	4 5 / 1043	City Hall	2nd Floor RR	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	1	1	35 w	59.5%	36.60	\$10.95
4ft linear wrap w2 T8	59 w	1	4 5 / 1043	City Hall	2nd Floor Server Room	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	1	1	35 w	59.5%	36.60	\$10.95
6in can w1 incandescent	50 w	2	4 5 / 1043	City Hall	Printer Room	LED 6" Can Downlight, 3000K, 3500K, 4000K, REC	13 w	2	2	74 w	74.0%	77.17	\$23.09
7in Can w1 inc	50 w	3	11 7 / 4100	City Hall	Outside Perimeter	LED 6" Can Downlight, 3000K, 3500K, 4000K, REC	13 w	3	3	111 w	74.0%	455.06	\$136.14
2x2 w2 Utube T8	72 w	2	8 5 / 2086	City Hall	Main Floor	LED Troffer 2x2, Retrofit Kit 4000K, UNV, REC	18 w	2	2	108 w	75.0%	225.26	\$67.39
2x4 box w2 T8	59 w	1	8 5 / 2086	City Hall	Uniform Room	LED Troffer 2x2, 35K, 4K, 5K, SMT Kit	39.1 w	1	1	20 w	33.7%	41.51	\$12.42
area light 1 hps	188 w	4	11 7 / 4100	City Hall	Parking Lot	LED Area Light, 5000K, UNV, PH w/ Square Pole Mount	70 w	4	4	472 w	62.8%	1,935.05	\$578.90
2x4 w2 T8	59 w	6	4 5 / 1043	City Hall	2nd Floor File Room	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	6	6	228 w	64.4%	237.77	\$71.13
2x4 w2 T8	59 w	4	8 5 / 2086	City Hall	2nd Floor Living Room Area	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	4	4	152 w	64.4%	317.03	\$94.84
2x4 w3 T8	89 w	3	8 5 / 2086	City Hall	City Hall Manger Office	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	3	3	204 w	76.4%	425.49	\$127.29
2x4 w3 T8	89 w	50	8 5 / 2086	City Hall	Main Floor	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	50	50	3,400 w	76.4%	7,091.43	\$2,121.50
2x4 w3 T8	89 w	2	8 5 / 2086	City Hall	Office	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	2	2	136 w	76.4%	283.66	\$84.86
2x4 w3 T8	89 w	3	8 5 / 2086	City Hall	Printer Room	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	3	3	204 w	76.4%	425.49	\$127.29
2x4 w3 T8	89 w	2	4 5 / 1043	City Hall	Storage Supplies	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	2	2	136 w	76.4%	141.83	\$42.43
3ft linear w 1 T12	26 w	4	8 5 / 2086	City Hall	2nd Floor Exit Stairs (1&2)	LED 3' Linear Fixture, 4000K, UNV	22.8 w	4	4	13 w	12.3%	26.70	\$7.99
3ft linear w1 T12	26 w	1	4 5 / 1043	City Hall	2nd Floor RR	LED 3' Linear Fixture, 4000K, UNV	22.8 w	1	1	3 w	12.3%	3.34	\$1.00
10in can w 1 CFL	33 w	4	8 5 / 2086	City Hall	Main Entrance (1)	LED 10" Can Downlight, 3000K, 3500K, 4000K, 4100K, UNV, REC	30 w	4	4	12 w	9.1%	25.03	\$7.49
10in can w1 CFL	33 w	2	8 5 / 2086	City Hall	Main Entrance (2)	LED 10" Can Downlight, 3000K, 3500K, 4000K, 4100K, UNV, REC	30 w	2	2	6 w	9.1%	12.51	\$3.74
4ft linear w1 T8	31 w	1	4 5 / 1043	City Hall	2nd Floor RR	LED 4' Linear Fixture, 4000K, UNV, SMT	18 w	1	1	13 w	41.9%	13.56	\$4.06
4ft linear w1 T12	46 w	2	4 5 / 1043	City Hall	Electrical Room	LED 4' Linear Fixture, 4000K, UNV, SMT	18 w	2	2	56 w	60.9%	58.40	\$17.47
8ft linear w 2 4ft T8	59 w	2	4 5 / 1043	City Hall	File Room	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w	2	2	42 w	35.6%	43.80	\$13.10
8ft linear w4 4ft T12	112 w	1	4 5 / 1043	City Hall	Storage Supplies	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w	1	1	74 w	66.1%	77.17	\$23.09
Coil CFL	17 w	3	8 5 / 2086	City Hall	2nd Floor Hallway	LED A19, 4100K, 120v	6 w	3	3	33 w	64.7%	68.83	\$20.59
Deco light w 4 Coil CFL	68 w	3	8 5 / 2086	City Hall	Main Floor	LED A19, 4100K, 120v	24 w	3	12	132 w	64.7%	275.31	\$82.36
wallpack w1 par	100 w	2	11 7 / 4100	City Hall	Outside Perimeter	LED PAR30, 5000K, Long Neck	10.5 w	2	2	179 w	89.5%	733.84	\$219.54
Occ Sensors	w	14	/			Occupancy Sensor/ Motion Sensor Wall Switch	w	14		w			
	w		/				w			w			
Totals	w	146	Ave: 2457				w	146		6,175 w	70.4%	13,812.69	\$4,132.27

6,175	Estimated Watts Saved	Total Project Cost	\$35,749.12	Approximate Energy Savings Per Month	\$344.36
13,813	Estimated Annual kWh Saved	Total After Rebate/Incentive Project Cost	\$35,749.12	Estimated Energy Savings Per Year	\$4,132.27
1.7	Estimated Avg Annual Res Powered by Savings	****Estimated Program Payback Period Yrs.	8.65	**Estimated Total Savings Over 5 Years	\$23,293.97
10	Estimated Annual CO2 Savings (MT)			** Estimated Total Savings After 10 Years	\$54,466.55
-	Estimated Btu Savings Per Month			Estimated Energy Rebate	\$0.00
70.4%	Estimated Average Electrical Savings			Estimated IRS Tax Deduction 179D Available	\$4,949.52
				***Estimated Federal Tax Savings	\$1,732.33
8.65	Estimated Payback Period Yrs. - No Rebates, Tax Deductions or Bulb Replacement Savings			Estimated Bulb Replacement Savings Per Year	\$169.24
7.91	Estimated Payback Period Yrs. Fully Comprehensive^			^^ Estimated Bulb Replacement Savings Per Avg. Est. Life of LED	\$16,670.73
				Estimated Loan Payment	\$340.47

*** Based on IRS 179D Deduction @ 35% federal tax rate

****Program Payback Period Yrs. = (Total Project Cost - Available Program Rebates or Incentives) / Estimated \$ Saved per Year

*Payback Period Yrs. = (Total Project Cost - Available Rebate or Incentive - Tax Savings) / (Estimated Savings Per Year + Bulb Replacement Savings Per Yr.)

^^Based on industry standard LED lifespan of 50,000 hrs.

NOTE: Attached calculations do not include depreciation deduction for project cost.

*Payment is based on a 8.65 year loan at 0% interest OAC, actual may vary.

** Reflects energy savings per year increasing at industry standard 6% per year + Bulb Replacement



CITY OF LIVE OAK

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LIVE OAK, CA 95953

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27671 La Paz Rd, Suite 100
Laguna Niguel, CA. 92677
info@ecogreen-solutions.net
(949) 364 - 6800

Quote
Quote # 200477
DATE 1/17/2023

Quotes are valid for 30 days from the above date.

Light EPN	INT/ EXT	DESCRIPTION	QTY*	Unit Price	Amount
EGCL-TC30-10"-CS-UNV-REC	Interior	LED 10" Can Downlight, 3000K,3500K,4000K,4100K, UNV, REC	30 w 6	\$165.00	\$990.00
EGLN-ML23.86-4ft-CS-UNV-SMT-WRP	Interior	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w 5	\$179.00	\$895.00
EG22-ML18-4000-UNV-REC	Interior	LED Troffer 2x2,Retrofit Kit 4000K, UNV, REC	18 w 2	\$135.00	\$270.00
EG22-MLWS-CS-UNV-VT	Interior	LED Troffer 2x2, 35K, 4K, 5K, SMT Kit	39.1 w 1	\$269.00	\$269.00
EG24-SF21-4000-UNV-REC	Interior	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w 70	\$149.00	\$10,430.00
EGLN-SI27-3ft-4000-UNV	Interior	LED 3' Linear Fixture, 4000K, UNV	22.8 w 5	\$129.00	\$645.00
EGLN-TC18-4ft-4000-UNV-SMT	Interior	LED 4' Linear Fixture, 4000K, UNV, SMT	18 w 3	\$115.00	\$345.00
EGCL-ML13-6"-CS-UNV-REC	Interior	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w 2	\$105.00	\$210.00
EGCL-ML13-6"-CS-UNV-REC	Exterior	LED 6" Can Downlight,3000K, 3500K, 4000K, REC	13 w 3	\$105.00	\$315.00
EGLN-TC38-8ft-4000-UNV-SMT-D	Interior	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w 3	\$149.00	\$447.00
EGLA-TCA19-6-4100-120v-E26	Interior	LED A19, 4100K, 120v	6 w 15	\$7.79	\$116.85
EGLA-TCP3010.5-5000-LN	Exterior	LED PAR30, 5000K, Long Neck	10.5 w 2	\$21.97	\$43.94
EGFL-HL50-CS-UNV-YM	Exterior	LED Flood Light, 3K, 4K, 5K, UNV, Yoke Mount	50 w 1	\$139.00	\$139.00
EGLB-EN14-11"-CS-UNV-RND	Interior	LED Lowbay White 11" Round Puff Fixture, 3K,4K,5K, UNV, SMT, C	14 w 2	\$89.00	\$178.00
EGAL-RL70-5000-UNV-PH-SP	Exterior	LED Area Light, 5000K, UNV, PH w/ Square Pole Mount	70 w 4	\$335.00	\$1,340.00
ICP		ICP Project Development/Engineering Certification			
EGOS-WS-OSMS		Occupancy Sensor/ Motion Sensor Wall Switch	14	\$129.49	\$1,812.86

TERMS AND CONDITIONS

WHEN SIGNED OR APPROVED BY CLIENT, THIS FORM BECOMES AN OFFICIAL ORDER AND A LEGALLY BINDING COMMITMENT SUBJECT TO THE TERMS AND CONDITIONS OF THIS FORM. BY SIGNING THIS FORM, CUSTOMER AGREES TO HAVE ECOGREEN SOLUTIONS PURCHASE AND INSTALL THE PRODUCTS LISTED ABOVE. All returned checks are subject to a \$20 service charge. If this invoice is not paid in full when due, a 1.5% per month late charge will be imposed. In this event, customer will be liable to pay reasonable collection charge, attorney fee and court cost. Warranty to be serviced by factory (see EcoGreen Scope of Work and warranty statement provided by the factory).

SIGNATURE: _____

DATE: _____

* All quantities to be verified by owner	SUBTOTAL	\$18,446.65
	LABOR	\$10,545.17
	SALES TAX	Included
	ADMINISTRATION & INSURANCE	\$645.63
(Brackets, Wiring, Sockets, Travel, Tiewire, Screws, Lifts, Lamp Recycling / Disposal, Shipping, Package, ETC.)	MISC. CHARGES	\$4,611.66
	ICP Developer/Engineering Cost	\$1,500.00
	TOTAL PROJECT COST	\$35,749.12
	Estimated IRS Federal Tax Deduction per 179D:	\$4,949.52
	Estimated Annual Energy Savings:	\$4,132.27



Statement of Work

1. SCOPE OF WORK: EcoGreen Solutions shall furnish all the materials and perform all of the work shown and/or described in the Energy Audit and Quote. EcoGreen Solutions is not responsible for touch up work i.e. – paint where replacement fixtures don't exactly match existing fixtures, ceiling tiles, etc...

a. VFD/VSD installation: If the project includes a VFD/VSD, standard installation costs include – VFD, startup, card, programming, installation of any conduit, running power, concrete footing (if needed), VFD mounting and interconnect to SCADA panel. Installation costs that are not included and would be an additional cost – wiring diagrams, fencing, gates, enclosures, relay box, controls.

2. PROJECT COST: The amount due for material and labor to be performed is \$27,731.85, subject to additions and deductions pursuant to authorized change orders/adjustment letters.

3. PAYMENT & UTILITY FINANCING: EcoGreen Solutions has worked with Customer to secure Utility financing on behalf of the Customer to fund payment of this project, of which, terms and payback periods are detailed in the Utility On-Bill Financing (OBF) documentation – PGE Project #/TIF # 14010.

Payment of the project shall be paid in the manner following:

Project Cost	\$27,731.85
Estimated Tax Benefit	\$0
Estimated Utility OBF	\$27,731.85
SUBTOTAL	\$0
Estimated Customer Out of Pocket Contribution	\$0

a. Customer understands that final utility rebate and OBF amounts issued may vary based on final installation counts and subject to additions and deductions pursuant to authorized change orders/adjustment letters.

b. Customer understands that should utility determine that OBF loan proceeds shall not be

issued due to customer's credit standing or has otherwise placed customer's repayment of the loan at risk, Customer shall be liable for payment of any product, labor, and installation due. This includes any product demos that aren't returned to EcoGreen Solutions.

c. Notice to Proceed: Once Utility On-Bill Financing is approved, if required, EcoGreen Solutions will provide LED demo fixture/lamps to assure proper light levels, color and aesthetics. Written confirmation from the Customer that demos are approved and approval to move forward with the ordering of product and installation will serve as formal Notice To Proceed.

4. GENERAL TERMS AND CONDITIONS

a. All work shall be completed in a workmanlike manner and in compliance with all building codes and other applicable laws.

b. To the extent required by law all work shall be performed by individuals duly licensed and authorized by law to perform the work.

c. EcoGreen Solutions may at its discretion engage subcontractors to perform work hereunder, provided EcoGreen Solutions shall fully pay said subcontractor and in all instances remain responsible for the proper completion of the project.

d. EcoGreen Solutions warrants it is adequately insured for injury to its employees and others incurring loss or injury as a result of the acts of EcoGreen Solutions or its employees and subcontractors.

e. Customer shall at its own expense obtain all permits necessary for the work to be performed.

f. EcoGreen Solutions agrees to remove all debris and leave the premises in clean condition unless instructed by Customer to do otherwise.

g. EcoGreen Solutions shall dispose of all hazardous lamps and tubes utilizing a proper recycling program unless instructed by Customer to do otherwise.

h. EcoGreen Solutions shall not be liable for any delay due to circumstances beyond its control including strikes, casualty or general unavailability of materials.

i. Customer is responsible for verification of fixture counts and hours of operation reflected in the Energy Audit.

5. HAZARDOUS CONDITIONS: In the event that EcoGreen Solutions discovers existing or developing spore or mold growth, asbestos or other potentially hazardous conditions at the Project location, EcoGreen Solutions will stop work and will not attempt to test, repair or remediate such conditions. At Customer's sole expense, Customer must arrange to have the hazardous condition removed by a third party in compliance with applicable laws within a reasonable period of time, or EcoGreen Solutions may cancel this project. If the project is canceled, Customer agrees to pay EcoGreen Solutions the costs of materials, labor and services provided through the date of cancellation.

6. WARRANTIES:

a. MANUFACTURER WARRANTIES. Products installed as part of the scope of work are covered by separate manufacturers' warranties (hereinafter, "Manufacturer Warranties"). EcoGreen Solutions will assign to Customer any Manufacturer Warranties in effect upon installation. EcoGreen Solutions will also provide Customer reasonable assistance in contacting manufacturers. If manufacturer files for bankruptcy or goes out of business, EcoGreen Solutions is not liable or responsible for continued warranty support.

b. LIMITED WARRANTY. EcoGreen Solutions provides a limited warranty of 90 days (the "Limited Warranty Period"), after the date of invoice. For the avoidance of doubt, this Limited Warranty does not cover parts already covered by the Manufacturer Warranties set forth in above. During the Limited Warranty Period, EcoGreen Solutions will at its expense repair or replace any parts or labor covered by the Limited Warranty.

c. OBTAIN WARRANTY SERVICE. To obtain warranty service, you must notify EcoGreen Solutions in writing or via email at repairs@ecogreen-solutions.net of any defect. Provided that the Warranty has not expired, has otherwise voided, or is subject to an exclusion, EcoGreen Solutions will repair or replace the defect within a reasonable time after you notify EcoGreen Solutions.

If a fixture fails, please take a photo and send it to repairs@ecogreen-solutions.net, and include location information in your email. The photo should be close up so we can properly match the product with the replacement. We will order replacement products and schedule the installation. If a product is in stock, EcoGreen Solutions will ship the replacement immediately. If the product is not in stock EcoGreen Solutions will order the replacement parts from the factory. Please be aware that some of our suppliers require 6-8 weeks lead time. EcoGreen Solutions does not cover shipping and handling for fixtures.

If a fixture has failed and is past our 3 months parts and labor period, EcoGreen Solutions will work with the factory to get the replacement material for you. We do not cover the cost of shipping and handling from the factory to our warehouse or to your location. If you do not have a qualified electrician to install the replacement product, please contact us at the email address above. A quote for the labor to install the product will be provided in 1-2 business days.

If a lamp fails, please follow the same procedure as for fixtures. EcoGreen Solutions will send Customer the replacement lamp. Labor is not covered for lamps. Shipping and handling also is not covered on warranty claims for lamps.

Warranty claims will not apply for:

- Product that has been modified by the customer.
- Product that was subject to misuse, vandalism or negligence.

IMPORTANT EcoGreen Solutions must receive the fixture/lamp/driver back once your product has been replaced. We can receive credit for the replacement product only if the factory receives the failed unit back. Failure to return the failed product to EcoGreen Solutions within 30 days will result in an invoice for the full retail price of the product.

If the failed product has been discontinued by the manufacturer and is no longer supported by a factory, EcoGreen Solutions will suggest a similar replacement LED fixture or lamp. EcoGreen Solutions cannot be held responsible for product lines that have been discontinued; however, we will make every effort to find a similarly performing product.

7. MAINTENANCE AND REPAIR: If the products require maintenance or repair that is not covered by the warranties set forth above, EcoGreen Solutions will not perform this work unless you enter into a separate agreement to perform these services at your expense.

ENERGY AUDIT

CITY OF LIVE OAK

City of Live Oak MS 2 - Sheriff & Community

10200 O ST

LIVE OAK, CA 95953

Acct: 9074702898; SAID: 9074702978

EcoGreen Sales Rep: Cameron Barcelona

Customer Contact: Aaron Palmer

Title of Contact: City manager

Customer Phone: 530-695-2112

Customer Email: apalmer@liveoakcity.org

Approx. Building Size 8,210 SF

Energy Rate \$ 0.32 /kWh

Interest Rate 0%



In Reference to Quote # 200480

EXISTING				Location		Suggested Replacements							Savings			
Existing	Watts/ Fix	# of Fixtures	Existing Operating Hours-Day / Yr.	Building/Zone	Room/Area	Suggested Replacement	Watts/Fix	# of Fixtures	# of Lamps	Watts/bulbs Saved	Usage Saved	KWh Saved	Annual Savings			
1x4 w2 T8	59 w	42	5.7 3 / 895	Community Bldg	Main Floor	4' T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	21 w	42	84	1,596 w	64.4%	1,428.06	\$454.58			
1x4 w2 T8	59 w	7	3.6 3 / 559	Community Bldg	Kitchen	4' T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	21 w	7	14	266 w	64.4%	148.76	\$47.35			
LED Jelly Jar w1	w	2	3.6 3 / 559	Community Bldg	Kitchen	Skip	w	2		w						
4ft linear wrap w4 T8	112 w	2	1.4 3 / 224	Community Bldg	Storage	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	33.2 w	2	2	158 w	70.4%	35.25	\$11.22			
1x4 w2 T8	59 w	3	1.4 3 / 224	Community Bldg	WM RR	4' T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	21 w	3	6	114 w	64.4%	25.50	\$8.12			
1x4 w2 T8	59 w	2	1.4 3 / 224	Community Bldg	Mens RR	4' T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	21 w	2	4	76 w	64.4%	17.00	\$5.41			
4ft linear wrap w4 T8	112 w	2	0.7 3 / 112	Community Bldg	Janitor Room	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	33.2 w	2	2	158 w	70.4%	17.63	\$5.61			
4ft linear wrap w4 T8	112 w	2	0.7 3 / 112	Community Bldg	Table Storage Room	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	33.2 w	2	2	158 w	70.4%	17.63	\$5.61			
1x4 w2 T8	59 w	2	5.7 3 / 895	Community Bldg	Main Entrance	4' T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	21 w	2	4	76 w	64.4%	68.00	\$21.65			
8in can w 1 CFL	20 w	6	8 7 / 2931	Community Bldg	Main Entrance	LED 8" Can Downlight,3000K, 3500K, 4000K, REC	13 w	6	6	42 w	35.0%	123.11	\$39.19			
Flood Light w1 lps	80 w	1	8 7 / 2931	Community Bldg	Main Entrance	LED Flood Light, 3K, 4K, 5K, UNV, Knuckle Mount	12 w	1	1	68 w	85.0%	199.33	\$63.45			
Flood Light w1 lps	80 w	2	8 7 / 2931	Community Bldg	Back Entrance	LED Flood Light, 3K, 4K, 5K, UNV, Knuckle Mount	12 w	2	2	136 w	85.0%	398.65	\$126.90			
Pool Light 2 mh	295 w	6	8 7 / 2931	Community Bldg	Parking Lot	LED Area Light, 5000K, UNV, PH w/ Square Pole Mount	70 w	6	6	1,350 w	76.3%	3,957.22	\$1,259.66			
8ft linear wrap w4 4ft T5	128 w	1	7 7 / 2540	Sub Station	LT Office	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	2	2	80 w	62.7%	203.74	\$64.85			
8ft linear wrap w4 4ft T5	128 w	2	21 7 / 7621	Sub Station	Hallway	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	4	4	160 w	62.7%	1,222.44	\$389.13			
8ft linear wrap w4 4ft T5	128 w	1	21 7 / 7621	Sub Station	Hallway	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	2	2	80 w	62.7%	611.22	\$194.56			
8ft linear wrap w4 4ft T5	128 w	1	7 7 / 2540	Sub Station	Office 1	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	2	2	80 w	62.7%	203.74	\$64.85			
2x4 box w 2 T5	64 w	2	7 7 / 2540	Sub Station	Office 2	LED Troffer 2x4, 4100K, UNV, w/SMT Kit	29.5 w	2	2	69 w	53.9%	175.29	\$55.80			
LED Linear	w		7 7 / 2540	Sub Station	RR	Skip	w			w						
8ft linear wrap w4 4ft T5	128 w	5	10 7 / 3811	Sub Station	Common Area	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	10	10	401 w	62.7%	1,528.05	\$486.41			
2x4 box w 2 T5	64 w	1	7 7 / 2540	Sub Station	Office 3	LED Troffer 2x4, 4100K, UNV, w/SMT Kit	29.5 w	1	1	35 w	53.9%	87.64	\$27.90			
2x4 box w 2 T5	64 w	2	5.2 7 / 1905	Sub Station	Evidence Room	LED Troffer 2x4, 4100K, UNV, w/SMT Kit	29.5 w	2	2	69 w	53.9%	131.47	\$41.85			
2x4 box w 2 T5	64 w	2	5.2 7 / 1905	Sub Station	Clean Air Room	LED Troffer 2x4, 4100K, UNV, w/SMT Kit	29.5 w	2	2	69 w	53.9%	131.47	\$41.85			
2x4 box w 2 T5	64 w	1	1.7 7 / 635	Sub Station	Server Room	LED Troffer 2x4, 4100K, UNV, w/SMT Kit	29.5 w	1	1	35 w	53.9%	21.91	\$6.97			
8ft linear wrap w4 4ft T5	128 w	1	7 7 / 2540	Sub Station	Officers Office	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	2	2	80 w	62.7%	203.74	\$64.85			
Bell Fixture w 1 Incandescent	72 w	1	9.8 7 / 3567	Sub Statio	Exterior	LED Area Light, 5000K, UNV, PH w/ Wall Mount	40 w	1	1	32 w	44.4%	114.14	\$36.33			
	w		/				w			w						
	w		/				w			w						
Totals		99	Ave: 3917				w	110		5,387 w	66.8%	11,070.97	\$3,524.12			

5,387	Estimated Watts Saved	Total Project Cost	\$27,731.85	Approximate Energy Savings Per Month	\$293.68
11,071	Estimated Annual kWh Saved	Total After Rebate/Incentive Project Cost	\$27,731.85	Estimated Energy Savings Per Year	\$3,524.12
1.3	Estimated Avg Annual Res Powered by Savings ****	Estimated Program Payback Period Yrs.	7.87	**Estimated Total Savings Over 5 Years	\$19,865.80
8	Estimated Annual CO2 Savings (MT)			** Estimated Total Savings After 10 Years	\$46,450.71
-	Estimated Btu Savings Per Month			Estimated Energy Rebate	\$0.00
66.8%	Estimated Average Electrical Savings			Estimated IRS Tax Deduction 179D Available	\$4,925.82
				***Estimated Federal Tax Savings	\$1,724.04
7.87	Estimated Payback Period Yrs. - No Rebates, Tax Deductions or Bulb Replacement Savings			Estimated Bulb Replacement Savings Per Year	\$170.77
7.04	Estimated Payback Period Yrs. Fully Comprehensive^			^^ Estimated Bulb Replacement Savings Per Avg. Est. Life of LED	\$42,494.41
				Estimated Loan Payment	\$291.91

*** Based on IRS 179D Deduction @ 35% federal tax rate

****Program Payback Period Yrs. = (Total Project Cost - Available Program Rebates or Incentives) / Estimated \$ Saved per Year

*Payback Period Yrs. = (Total Project Cost - Available Rebate or Incentive - Tax Savings) / (Estimated Savings Per Year + Bulb Replacement Savings Per Yr.)

^^Based on industry standard LED lifespan of 50,000 hrs.

NOTE: Attached calculations do not include depreciation deduction for project cost.

*Payment is based on a 7.87 year loan at 0% interest OAC, actual my vary.

** Reflects energy savings per year increasing at industry standard 6% per year + Bulb Replacement



27671 La Paz Rd, Suite 100
Laguna Niguel, CA. 92677
info@ecogreen-solutions.net
(949) 364 - 6800

Quote
Quote # 200480
DATE 10/17/2022

CITY OF LIVE OAK
City of Live Oak MS 2 - Sheriff & Community
10200 O ST
LIVE OAK, CA 95953
Acct: 9074702898 - SAID: 9074702978

Quotes are valid for 30 days from the above date.

Light EPN	Site Name	INT/ EXT	DESCRIPTION	QTY*	Unit Price	Amount
EGTU-TC10-4ft-4000-T8-B	Community	Interior	4' T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	10.5 w 112	\$11.97	\$1,340.64
EGLN-ML33.16-4ft-CS-UNV-SMT-WRP	Community	Interior	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	33.16 w 6	\$179.00	\$1,074.00
EGCL-ML13-8"-CS-UNV-REC	Community	Exterior	LED 8" Can Downlight,3000K, 3500K, 4000K, REC	13 w 6	\$120.00	\$720.00
EGFL-HL12-CS-UNV-KM	Community	Exterior	LED Flood Light, 3K, 4K, 5K, UNV, Knuckle Mount	12 w 3	\$97.00	\$291.00
EGAL-RL70-5000-UNV-PH-SP	Community	Exterior	LED Area Light, 5000K, UNV, PH w/ Square Pole Mount	70 w 6	\$335.00	\$2,010.00
EGLN-ML23.86-4ft-CS-UNV-SMT-WRP	Sheriff	Interior	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.86 w 22	\$179.00	\$3,938.00
EGAL-RL40-5000-UNV-PH-WM	Sheriff	Exterior	LED Area Light, 5000K, UNV, PH w/ Wall Mount	40 w 1	\$279.00	\$279.00
EG24-ML30WS-CS-UNV-VT	Sheriff	Interior	LED Troffer 2x4, 4100K, UNV, w/SMT Kit	30 w 8	\$269.00	\$2,152.00

TERMS AND CONDITIONS

WHEN SIGNED OR APPROVED BY CLIENT, THIS FORM BECOMES AN OFFICIAL ORDER AND A LEGALLY BINDING COMMITMENT SUBJECT TO THE TERMS AND CONDITIONS OF THIS FORM. BY SIGNING THIS FORM, CUSTOMER AGREES TO HAVE ECOGREEN SOLUTIONS PURCHASE AND INSTALL THE PRODUCTS LISTED ABOVE. All returned checks are subject to a \$20 service charge. If this invoice is not paid in full when due, a 1.5% per month late charge will be imposed. In this event, customer will be liable to pay reasonable collection charge, attorney fee and court cost. Warranty to be serviced by factory (see EcoGreen Scope of Work and warranty statement provided by the factory).

SIGNATURE:

DATE:

* All quantities to be verified by owner	SUBTOTAL	\$11,804.64
	LABOR	\$9,562.89
	SALES TAX	Included
	ADMINISTRATION & INSURANCE	\$413.16
(Brackets, Wiring, Sockets, Travel, Tiewire, Screws, Lifts, Lamp Recycling / Disposal, Shipping, Package, ETC.) MISC. CHARGES		\$2,951.16
ICP Developer/Engineering Cost		\$3,000.00
	TOTAL PROJECT COST	\$27,731.85
	Estimated IRS Federal Tax Deduction per 179D:	\$4,925.82
	Estimated Annual Energy Savings:	\$3,524.12



Statement of Work

1. SCOPE OF WORK: EcoGreen Solutions shall furnish all the materials and perform all of the work shown and/or described in the Energy Audit and Quote. EcoGreen Solutions is not responsible for touch up work i.e. – paint where replacement fixtures don't exactly match existing fixtures, ceiling tiles, etc...

a. VFD/VSD installation: If the project includes a VFD/VSD, standard installation costs include – VFD, startup, card, programming, installation of any conduit, running power, concrete footing (if needed), VFD mounting and interconnect to SCADA panel. Installation costs that are not included and would be an additional cost – wiring diagrams, fencing, gates, enclosures, relay box, controls.

2. PROJECT COST: The amount due for material and labor to be performed is \$34,915.81, subject to additions and deductions pursuant to authorized change orders/adjustment letters.

3. PAYMENT & UTILITY FINANCING: EcoGreen Solutions has worked with Customer to secure Utility financing on behalf of the Customer to fund payment of this project, of which, terms and payback periods are detailed in the Utility On-Bill Financing (OBF) documentation – PGE Project #/TIF # 14013.

Payment of the project shall be paid in the manner following:

Project Cost	\$34,915.81
Estimated Tax Benefit	\$0
Estimated Utility OBF	\$34,915.81
SUBTOTAL	\$0
Estimated Customer Out of Pocket Contribution	\$0

a. Customer understands that final utility rebate and OBF amounts issued may vary based on final installation counts and subject to additions and deductions pursuant to authorized change orders/adjustment letters.

b. Customer understands that should utility determine that OBF loan proceeds shall not be

issued due to customer's credit standing or has otherwise placed customer's repayment of the loan at risk, Customer shall be liable for payment of any product, labor, and installation due. This includes any product demos that aren't returned to EcoGreen Solutions.

c. Notice to Proceed: Once Utility On-Bill Financing is approved, if required, EcoGreen Solutions will provide LED demo fixture/lamps to assure proper light levels, color and aesthetics. Written confirmation from the Customer that demos are approved and approval to move forward with the ordering of product and installation will serve as formal Notice To Proceed.

4. GENERAL TERMS AND CONDITIONS

a. All work shall be completed in a workmanlike manner and in compliance with all building codes and other applicable laws.

b. To the extent required by law all work shall be performed by individuals duly licensed and authorized by law to perform the work.

c. EcoGreen Solutions may at its discretion engage subcontractors to perform work hereunder, provided EcoGreen Solutions shall fully pay said subcontractor and in all instances remain responsible for the proper completion of the project.

d. EcoGreen Solutions warrants it is adequately insured for injury to its employees and others incurring loss or injury as a result of the acts of EcoGreen Solutions or its employees and subcontractors.

e. Customer shall at its own expense obtain all permits necessary for the work to be performed.

f. EcoGreen Solutions agrees to remove all debris and leave the premises in clean condition unless instructed by Customer to do otherwise.

g. EcoGreen Solutions shall dispose of all hazardous lamps and tubes utilizing a proper recycling program unless instructed by Customer to do otherwise.

h. EcoGreen Solutions shall not be liable for any delay due to circumstances beyond its control including strikes, casualty or general unavailability of materials.

i. Customer is responsible for verification of fixture counts and hours of operation reflected in the Energy Audit.

5. HAZARDOUS CONDITIONS: In the event that EcoGreen Solutions discovers existing or developing spore or mold growth, asbestos or other potentially hazardous conditions at the Project location, EcoGreen Solutions will stop work and will not attempt to test, repair or remediate such conditions. At Customer's sole expense, Customer must arrange to have the hazardous condition removed by a third party in compliance with applicable laws within a reasonable period of time, or EcoGreen Solutions may cancel this project. If the project is canceled, Customer agrees to pay EcoGreen Solutions the costs of materials, labor and services provided through the date of cancellation.

6. WARRANTIES:

a. MANUFACTURER WARRANTIES. Products installed as part of the scope of work are covered by separate manufacturers' warranties (hereinafter, "Manufacturer Warranties"). EcoGreen Solutions will assign to Customer any Manufacturer Warranties in effect upon installation. EcoGreen Solutions will also provide Customer reasonable assistance in contacting manufacturers. If manufacturer files for bankruptcy or goes out of business, EcoGreen Solutions is not liable or responsible for continued warranty support.

b. LIMITED WARRANTY. EcoGreen Solutions provides a limited warranty of 90 days (the "Limited Warranty Period"), after the date of invoice. For the avoidance of doubt, this Limited Warranty does not cover parts already covered by the Manufacturer Warranties set forth in above. During the Limited Warranty Period, EcoGreen Solutions will at its expense repair or replace any parts or labor covered by the Limited Warranty.

c. OBTAIN WARRANTY SERVICE. To obtain warranty service, you must notify EcoGreen Solutions in writing or via email at repairs@ecogreen-solutions.net of any defect. Provided that the Warranty has not expired, has otherwise voided, or is subject to an exclusion, EcoGreen Solutions will repair or replace the defect within a reasonable time after you notify EcoGreen Solutions.

If a fixture fails, please take a photo and send it to repairs@ecogreen-solutions.net, and include location information in your email. The photo should be close up so we can properly match the product with the replacement. We will order replacement products and schedule the installation. If a product is in stock, EcoGreen Solutions will ship the replacement immediately. If the product is not in stock EcoGreen Solutions will order the replacement parts from the factory. Please be aware that some of our suppliers require 6-8 weeks lead time. EcoGreen Solutions does not cover shipping and handling for fixtures.

If a fixture has failed and is past our 3 months parts and labor period, EcoGreen Solutions will work with the factory to get the replacement material for you. We do not cover the cost of shipping and handling from the factory to our warehouse or to your location. If you do not have a qualified electrician to install the replacement product, please contact us at the email address above. A quote for the labor to install the product will be provided in 1-2 business days.

If a lamp fails, please follow the same procedure as for fixtures. EcoGreen Solutions will send Customer the replacement lamp. Labor is not covered for lamps. Shipping and handling also is not covered on warranty claims for lamps.

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- Product that has been modified by the customer.
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IMPORTANT EcoGreen Solutions must receive the fixture/lamp/driver back once your product has been replaced. We can receive credit for the replacement product only if the factory receives the failed unit back. Failure to return the failed product to EcoGreen Solutions within 30 days will result in an invoice for the full retail price of the product.

If the failed product has been discontinued by the manufacturer and is no longer supported by a factory, EcoGreen Solutions will suggest a similar replacement LED fixture or lamp. EcoGreen Solutions cannot be held responsible for product lines that have been discontinued; however, we will make every effort to find a similarly performing product.

7. MAINTENANCE AND REPAIR: If the products require maintenance or repair that is not covered by the warranties set forth above, EcoGreen Solutions will not perform this work unless you enter into a separate agreement to perform these services at your expense.

ENERGY AUDIT

CITY OF LIVE OAK

City of Live Oak - WWTP
100 TREATMENT PLANT ACCESS RD
LIVE OAK, Ca 95953
Acct: 9074702886; SAID: 9074702376

EcoGreen Sales Rep: Anthony Mitchell

Customer Contact: Aaron Palmer
Title of Contact: City manager
Customer Phone: 530-695-2112
Customer Email: apalmer@liveoakcity.org

Approx. Building Size 4,864 SF
Energy Rate \$ 0.22 /kWh
Interest Rate 0%



In Reference to Quote # 200479

EXISTING				Location		Suggested Replacements							Savings		
Existing	Watts/ Fix	# of Fixtures	Existing Operating Hours-Day / Yr.	Building/Zone	Room/Area	Suggested Replacement	Watts/Fix	# of Fixtures	# of Lamps	Watts/bulbs Saved	Usage Saved	KWh Saved	Annual Savings		
wallpack w1 hps	188 w	2	11 7 / 4100	waste water	kola	LED Wallpack, 5000K, UNV	60 w	2	2	256 w	68.1%	1,049.52	\$230.03		
4ft linear w2 t8 wrap	59 w	4	4 7 / 1460	waste water	well 1	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	4	4	140 w	59.5%	204.98	\$44.93		
4ft linear w2 t5	64 w	10	8 7 / 2920	main	mcc2	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	10	10	401 w	62.7%	1,170.92	\$256.64		
area light w1 hps	250 w	1	11 7 / 4100	waste water	garden glenn	LED Area Light, 5000K, UNV, PH w/ Slip Filter	70 w	1	1	180 w	72.0%	737.94	\$161.74		
area light w1 hps	250 w	17	11 7 / 4100	main	ext main plant	LED Area Light, 5000K, UNV, PH w/ Square Pole Mount	70 w	17	17	3,060 w	72.0%	12,545.02	\$2,749.60		
2x4 w3 t8	89 w	13	8 5 / 2086	waste water	wvmt office	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	13	13	884 w	76.4%	1,843.77	\$404.12		
2x4 w3 t8	89 w	1	8 7 / 2920	waste water	wvmt office hall	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	1	1	68 w	76.4%	198.56	\$43.52		
hvac	w		/	main	filters	Skip	w			w					
LED 4ft linear w/2 t8	w	2	6 7 / 2190	main	mcc1	Skip	w	2		w					
LED areaw1 retro	w	4	11 7 / 4100	main	ext main plant	Skip	w	4		w					
LED lb w1 a19	w	1	/	main	mcc1	Skip	w	1		w					
flood w2 par38	120 w	1	11 7 / 4100	main	mcc1	LED PAR38, 5000K, Narrow Flood	30 w	1	2	90 w	75.0%	368.97	\$80.87		
hb w1 mh	458 w	6	11 7 / 4100	main	filters	LED Round Highbay, 5000K, UNV	150 w	6	6	1,848 w	67.2%	7,576.21	\$1,660.55		
hb w1 mh	458 w	6	11 7 / 4100	main	filters	LED Round Highbay, 5000K, UNV	150 w	6	6	1,848 w	67.2%	7,576.21	\$1,660.55		
4ft linear w2 t8	59 w	2	5 7 / 1825	waste water	office restroom	4' T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	21 w	2	4	76 w	64.4%	138.70	\$30.40		
8ft linear w2 t12	123 w	1	4 7 / 1460	main	mcc1	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w	1	1	85 w	69.1%	124.10	\$27.20		
4ft linear w2 t8 vaportight	59 w	1	4 7 / 1460	waste water	p street	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	1	1	39 w	66.1%	56.94	\$12.48		
4ft linear w2 t8 vaportight	59 w	3	6 7 / 2190	main	mcc3	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	3	3	117 w	66.1%	256.23	\$56.16		
4ft linear w2 t8 vaportight	59 w	6	5 7 / 1825	waste water	bps	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	6	6	234 w	66.1%	427.05	\$93.60		
4ft linear w2 t8 vaportight	59 w	2	5 7 / 1825	waste water	kola	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	2	2	78 w	66.1%	142.35	\$31.20		
4ft linear w2 t8 vaportight	59 w	2	4 7 / 1460	waste water	well 2	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	2	2	78 w	66.1%	113.88	\$24.96		
4ft linear w2 t8 vaportight	59 w	2	4 7 / 1460	waste wayer	well 3	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	2	2	78 w	66.1%	113.88	\$24.96		
4ft linear w2 t8 vaportight	59 w	4	11 7 / 4100	main	ext main plant	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	4	4	156 w	66.1%	639.55	\$140.18		
Totals		91	Ave: 3215				w	91		9,716 w	69.3%	35,284.79	\$7,733.68		

9,716	Estimated Watts Saved	Total Project Cost	\$29,885.78	Approximate Energy Savings Per Month	\$644.47
35,285	Estimated Annual kWh Saved	Total After Rebate/Incentive Project Cost	\$29,885.78	Estimated Energy Savings Per Year	\$7,733.68
4.3	Estimated Avg Annual Res Powered by Savings	****Estimated Program Payback Period Yrs.	3.86	**Estimated Total Savings Over 5 Years	\$43,595.48
26	Estimated Annual CO2 Savings (MT)			** Estimated Total Savings After 10 Years	\$101,936.07
1,362,402	Estimated Btu Savings Per Month			Estimated Energy Rebate	\$0.00
69.3%	Estimated Average Electrical Savings			Estimated IRS Tax Deduction 179D Available	\$2,918.40
				***Estimated Federal Tax Savings	\$1,021.44
3.86	Estimated Payback Period Yrs. - No Rebates, Tax Deductions or Bulb Replacement Savings			Estimated Bulb Replacement Savings Per Year	\$197.31
3.64	Estimated Payback Period Yrs. Fully Comprehensive^			^^ Estimated Bulb Replacement Savings Per Avg. Est. Life of LED	\$16,163.51
				Estimated Loan Payment	\$635.87

*** Based on IRS 179D Deduction @ 35% federal tax rate

****Program Payback Period Yrs. = (Total Project Cost - Available Program Rebates or Incentives) / Estimated \$ Saved per Year

^Payback Period Yrs. = (Total Project Cost - Available Rebate or Incentive - Tax Savings) / (Estimated Savings Per Year + Bulb Replacement Savings Per Yr.)

^^Based on industry standard LED lifespan of 50,000 hrs.

NOTE: Attached calculations do not include depreciation deduction for project cost.

*Payment is based on a 3.86 year loan at 0% interest OAC, actual may vary.

** Reflects energy savings per year increasing at industry standard 6% per year + Bulb Replacement



27671 La Paz Rd, Suite 100
Laguna Niguel, CA. 92677
info@ecogreen-solutions.net
(949) 364 - 6800

Quote
Quote # 200479
DATE 10/17/2022

CITY OF LIVE OAK
City of Live Oak - WWTP
100 TREATMENT PLANT ACCESS RD
LIVE OAK, Ca 95953
Acct: 9074702898; SAID: 9074702376

Quotes are valid for 30 days from the above date.

Light EPN	INT/ EXT	DESCRIPTION	QTY*	Unit Price	Amount
EGTU-TC10-4ft-4000-T8-B	int	4' T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	10.5 w 4	\$11.97	\$47.88
EGLN-TC20-4ft-4000-UNV-SMT-VT	ext	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w 4	\$135.00	\$540.00
EGLN-TC20-4ft-4000-UNV-SMT-VT	int	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w 16	\$135.00	\$2,160.00
EGLN-ML23.86-4ft-CS-UNV-SMT-WRP	int	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w 14	\$179.00	\$2,506.00
EG24-SF21-4000-UNV-REC	int	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w 14	\$149.00	\$2,086.00
EGLN-TC38-8ft-4000-UNV-SMT-D	int	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w 1	\$149.00	\$149.00
EGLA-TCP3815-5000	ext	LED PAR38, 5000K, Narrow Flood	15 w 2	\$21.50	\$43.00
EGWP-AT60-5000-UNV	ext	LED Wallpack, 5000K, UNV	60 w 2	\$225.00	\$450.00
EGAL-RL70-5000-UNV-PH-SP	ext	LED Area Light, 5000K, UNV, PH w/ Square Pole Mount	70 w 17	\$335.00	\$5,695.00
EGAL-RL70-5000-UNV-PH-SF	ext	LED Area Light, 5000K, UNV, PH w/ Slip Fitter	70 w 1	\$335.00	\$335.00
EGHB-TC150-5000-UNV	ext	LED Round Highbay, 5000K, UNV	150 w 12	\$249.00	\$2,988.00

TERMS AND CONDITIONS

WHEN SIGNED OR APPROVED BY CLIENT, THIS FORM BECOMES AN OFFICIAL ORDER AND A LEGALLY BINDING COMMITMENT SUBJECT TO THE TERMS AND CONDITIONS OF THIS FORM. BY SIGNING THIS FORM, CUSTOMER AGREES TO HAVE ECOGREEN SOLUTIONS PURCHASE AND INSTALL THE PRODUCTS LISTED ABOVE. All returned checks are subject to a \$20 service charge. If this invoice is not paid in full when due, a 1.5% per month late charge will be imposed. In this event, customer will be liable to pay reasonable collection charge, attorney fee and court cost. Warranty to be serviced by factory (see EcoGreen Scope of Work and warranty statement provided by the factory).

SIGNATURE:

DATE:

* All quantities to be verified by owner	SUBTOTAL	\$16,999.88
	LABOR	\$6,540.93
	SALES TAX	Included
	ADMINISTRATION & INSURANCE	\$595.00
(Brackets, Wiring, Sockets, Travel, Tiewire, Screws, Lifts, Lamp Recycling / Disposal, Shipping, Package, ETC.) MISC. CHARGES		\$4,249.97
	ICP Developer/Engineering Cost	\$1,500.00
	TOTAL PROJECT COST	\$29,885.78
	Estimated IRS Federal Tax Deduction per 179D:	\$2,918.40
	Estimated Annual Energy Savings:	\$7,733.68

ENERGY AUDIT

CITY OF LIVE OAK

City of Live Oak - WWTP
100 TREATMENT PLANT ACCESS RD
LIVE OAK, Ca 95953
Acct: 9074702898; SAID: 9074702376

EcoGreen Sales Rep: Anthony Mitchell

Customer Contact: Aaron Palmer
Title of Contact: City manager
Customer Phone: 530-695-2112
Customer Email: apalmer@liveoakcity.org

Approx. Building Size 4,864 SF
Energy Rate \$ 0.22 /kWh
Interest Rate 0%



In Reference to Quote # 200479

EXISTING				Location		Suggested Replacements				Savings			
Existing	Watts/ Fix	# of Fixtures	Existing Operating Hours-Day / Yr.	Building/Zone	Room/Area	Suggested Replacement	Watts/Fix	# of Fixtures	# of Lamps	Watts/bulbs Saved	Usage Saved	KWh Saved	Annual Savings
wallpack w1 hps	188 w	2	11 7 / 4100	waste water	kola	LED Wallpack, 5000K, UNV	60 w	2	2	256 w	68.1%	1,049.52	\$230.03
4ft linear w2 t8 wrap	59 w	4	4 7 / 1460	waste water	well 1	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	4	4	140 w	59.5%	204.98	\$44.93
4ft linear w2 t5	64 w	10	8 7 / 2920	main	mcc2	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w	10	10	401 w	62.7%	1,170.92	\$256.64
area light w1 hps	250 w	1	11 7 / 4100	waste water	garden glenn	LED Area Light, 5000K, UNV, PH w/ Slip Fitter	70 w	1	1	180 w	72.0%	737.94	\$161.74
area light w1 hps	250 w	17	11 7 / 4100	main	ext main plant	LED Area Light, 5000K, UNV, PH w/ Square Pole Mount	70 w	17	17	3,060 w	72.0%	12,545.02	\$2,749.60
2x4 w3 t8	89 w	13	8 5 / 2086	waste water	wwpt office	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	13	13	884 w	76.4%	1,843.77	\$404.12
2x4 w3 t8	89 w	1	8 7 / 2920	waste water	wwpt office hall	LED Troffer 2x4 Retrofit Kit, 4000K, UNV, REC	21 w	1	1	68 w	76.4%	198.56	\$43.52
hvac	w		/	main	filters	Skip	w			w			
LED 4ft linear w2 t8	w	2	6 7 / 2190	main	mcc1	Skip	w	2		w			
LED area w1 retro	w	4	11 7 / 4100	main	ext main plant	Skip	w	4		w			
LED lb w1 a19	w	1	/	main	mcc1	Skip	w	1		w			
flood w2 par38	120 w	1	11 7 / 4100	main	mcc1	LED PAR38, 5000K, Narrow Flood	30 w	1	2	90 w	75.0%	368.97	\$80.87
hb w1 mh	458 w	6	11 7 / 4100	main	filters	LED Round Highbay, 5000K, UNV	150 w	6	6	1,848 w	67.2%	7,576.21	\$1,660.55
hb w1 mh	458 w	6	11 7 / 4100	main	filters	LED Round Highbay, 5000K, UNV	150 w	6	6	1,848 w	67.2%	7,576.21	\$1,660.55
4ft linear w2 t8	59 w	2	5 7 / 1825	waste water	office restroom	4' T8 LED Tube Double Ended Bypass(Type B), 4000K, UNV	21 w	2	4	76 w	64.4%	138.70	\$30.40
8ft linear w2 t12	123 w	1	4 7 / 1460	main	mcc1	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w	1	1	85 w	69.1%	124.10	\$27.20
4ft linear w2 t8 vaporight	59 w	1	4 7 / 1460	waste water	p street	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	1	1	39 w	66.1%	56.94	\$12.48
4ft linear w2 t8 vaporight	59 w	3	6 7 / 2190	main	mcc3	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	3	3	117 w	66.1%	256.23	\$56.16
4ft linear w2 t8 vaporight	59 w	6	5 7 / 1825	waste water	bps	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	6	6	234 w	66.1%	427.05	\$93.60
4ft linear w2 t8 vaporight	59 w	2	5 7 / 1825	waste water	kola	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	2	2	78 w	66.1%	142.35	\$31.20
4ft linear w2 t8 vaporight	59 w	2	4 7 / 1460	waste water	well 2	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	2	2	78 w	66.1%	113.88	\$24.96
4ft linear w2 t8 vaporight	59 w	2	4 7 / 1460	waste wayer	well 3	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	2	2	78 w	66.1%	113.88	\$24.96
4ft linear w2 t8 vaporight	59 w	4	11 7 / 4100	main	ext main plant	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w	4	4	156 w	66.1%	639.55	\$140.18
	w		/			ICP Project Development/Engineering Certification	w			w			
Motion Sensor	w	8	/		Admin Bldg.	Occupancy Sensor/ Motion Sensor Wall Switch	w	8		w			
Motion Sensor	w	1	/		MCC Bldg. 1	Occupancy Sensor/ Motion Sensor Wall Switch	w	1		w			
Motion Sensor	w	4	/		MCC Bldg. 2	Occupancy Sensor/ Motion Sensor Wall Switch	w	4		w			
Motion Sensor	w	2	/		MCC Bldg. 3	Occupancy Sensor/ Motion Sensor Wall Switch	w	2		w			
Motion Sensor	w	1	/		Polymer Pumping Bldg.	Occupancy Sensor/ Motion Sensor Wall Switch	w	1		w			
Motion Sensor	w	1	/		Covered Vac Truck Parking	Occupancy Sensor/ Motion Sensor Wall Switch	w	1		w			
	w		/				w			w			
Totals		108	Ave: 3215				w	108		9,716 w	69.3%	35,284.79	\$7,733.68

9,716	Estimated Watts Saved	Total Project Cost	\$34,915.81	Approximate Energy Savings Per Month	\$644.47
35,285	Estimated Annual kWh Saved	Total After Rebate/Incentive Project Cost	\$34,915.81	Estimated Energy Savings Per Year	\$7,733.68
4.3	Estimated Avg Annual Res Powered by Savings	****Estimated Program Payback Period Yrs.	4.51	**Estimated Total Savings Over 5 Years	\$43,595.48
26	Estimated Annual CO2 Savings (MT)			** Estimated Total Savings After 10 Years	\$101,936.07
1,362,402	Estimated Btu Savings Per Month			Estimated Energy Rebate	\$0.00
69.3%	Estimated Average Electrical Savings			Estimated IRS Tax Deduction 179D Available	\$2,918.40
				***Estimated Federal Tax Savings	\$1,021.44
4.51	Estimated Payback Period Yrs. - No Rebates, Tax Deductions or Bulb Replacement Savings			Estimated Bulb Replacement Savings Per Year	\$197.31
4.27	Estimated Payback Period Yrs. Fully Comprehensive^			^^ Estimated Bulb Replacement Savings Per Avg. Est. Life of LED	\$16,163.51

*** Based on IRS 179D Deduction @ 35% federal tax rate

****Program Payback Period Yrs. = (Total Project Cost - Available Program Rebates or Incentives) / Estimated \$ Saved per Year

^Payback Period Yrs. = (Total Project Cost - Available Rebate or Incentive - Tax Savings) / (Estimated Savings Per Year + Bulb Replacement Savings Per Yr.)

^^Based on industry standard LED lifespan of 50,000 hrs.

NOTE: Attached calculations do not include depreciation deduction for project cost.

*Payment is based on a 4.51 year loan at 0% interest OAC, actual may vary.

** Reflects energy savings per year increasing at industry standard 6% per year + Bulb Replacement



27671 La Paz Rd, Suite 100
Laguna Niguel, CA. 92677
info@ecogreen-solutions.net
(949) 364 - 6800

Quote
Quote # 200479
DATE 1/27/2023

CITY OF LIVE OAK

City of Live Oak - WWTP
100 TREATMENT PLANT ACCESS RD
LIVE OAK, Ca 95953
Acct: 9074702898; SAID: 9074702376

Quotes are valid for 30 days from the above date.

Light EPN	INT/ EXT	DESCRIPTION	QTY*	Unit Price	Amount
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EGLN-TC20-4ft-4000-UNV-SMT-VT	int	LED 4' Linear Vapor Tight Fixture, 4000K, UNV, SMT	20 w 16	\$135.00	\$2,160.00
EGLN-ML23.86-4ft-CS-UNV-SMT-WRP	int	LED 4' Linear Wrap Fixture, 35K, 4K, 5K, UNV	23.9 w 14	\$179.00	\$2,506.00
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EGLN-TC38-8ft-4000-UNV-SMT-D	int	LED 8' Linear Fixture, 4000K, UNV, SMT	38 w 1	\$149.00	\$149.00
EGLA-TCP3815-5000	ext	LED PAR38, 5000K, Narrow Flood	15 w 2	\$21.50	\$43.00
EGWP-AT60-5000-UNV	ext	LED Wallpack, 5000K, UNV	60 w 2	\$225.00	\$450.00
EGAL-RL70-5000-UNV-PH-SP	ext	LED Area Light, 5000K, UNV, PH w/ Square Pole Mount	70 w 17	\$335.00	\$5,695.00
EGAL-RL70-5000-UNV-PH-SF	ext	LED Area Light, 5000K, UNV, PH w/ Slip Fitter	70 w 1	\$335.00	\$335.00
EGHB-TC150-5000-UNV	ext	LED Round Highbay, 5000K, UNV	150 w 12	\$249.00	\$2,988.00
EGOS-WS-OSMS		Occupancy Sensor/ Motion Sensor Wall Switch	17	\$129.49	\$2,201.33

TERMS AND CONDITIONS

WHEN SIGNED OR APPROVED BY CLIENT, THIS FORM BECOMES AN OFFICIAL ORDER AND A LEGALLY BINDING COMMITMENT SUBJECT TO THE TERMS AND CONDITIONS OF THIS FORM. BY SIGNING THIS FORM, CUSTOMER AGREES TO HAVE ECOGREEN SOLUTIONS PURCHASE AND INSTALL THE PRODUCTS LISTED ABOVE. All returned checks are subject to a \$20 service charge. If this invoice is not paid in full when due, a 1.5% per month late charge will be imposed. In this event, customer will be liable to pay reasonable collection charge, attorney fee and court cost. Warranty to be serviced by factory (see EcoGreen Scope of Work and warranty statement provided by the factory).

SIGNATURE: _____

DATE: _____

* All quantities to be verified by owner	SUBTOTAL	\$19,201.21
	LABOR	\$8,742.26
	SALES TAX	Included
	ADMINISTRATION & INSURANCE	\$672.04
(Brackets, Wiring, Sockets, Travel, Tiewire, Screws, Lifts, Lamp Recycling / Disposal, Shipping, Package, ETC.)	MISC. CHARGES	\$4,800.30
	ICP Developer/Engineering Cost	\$1,500.00
	TOTAL PROJECT COST	\$34,915.81
	Estimated IRS Federal Tax Deduction per 179D:	\$2,918.40
	Estimated Annual Energy Savings:	\$7,733.68



LOCAL AGENCY AND DISTRICT CUSTOMERS ON-BILL FINANCING LOAN AGREEMENT

The undersigned Local Agency or District¹ Customer (“**Customer**”) has contracted for the provision of energy efficiency/demand response equipment and services (the “**Work**”) which qualify for one or more of PG&E’s applicable rebate or incentive programs. Subject to the conditions (including the process for Adjustment and preconditions to funding) set forth below, Pacific Gas and Electric Company (“**PG&E**”) shall extend a loan (the “**Loan**”) to Customer in the amount of the loan balance (the “**Loan Balance**”) pursuant to the terms of this On-Bill Financing Loan Agreement (“**Loan Agreement**”) and PG&E’s rate schedules E-OBF and/or G-OBF, as applicable (the “**Schedule**”).

To request the Loan, Customer has submitted a completed On-Bill Financing Application and associated documentation as required by PG&E (the “**Application**”). Collectively the Application and this Loan Agreement (including any Adjustment hereunder) comprise the “**Agreement**”.

1. Customer shall arrange for its Contractor, as identified at the end of this Agreement (“**Contractor**”), to provide the Work as described in the Application.
2. The estimated Loan Balance is set forth below. The total cost of the Work as installed, rebate/incentive for qualifying energy efficiency measures, Loan Balance, monthly payment, and loan term specified in this Loan Agreement may be adjusted, if necessary, after the Work and the post-installation inspection described in the Application and/or herein are completed (the “**Adjustment**”). The Adjustment will be calculated using the actual total cost of the Work, as installed, and the estimated energy savings (as described in the Application) of such Work. In no event will the Loan Balance be increased without Customer’s written consent, even if Customer is eligible for such increased Loan Balance. Moreover, in no event will the Loan Balance exceed the maximum loan amount stipulated in the Application. Customer understands that in order to be eligible for the Loan, the initial Loan Balance for Work may not fall below the minimum loan amount, nor may the payback period exceed the maximum payback period. **Accordingly, if after the Adjustment, the Loan Balance falls below the minimum loan amount or if the simple payback period exceeds the program maximum payback period, each as described in the Application, PG&E shall have no obligation to extend the Loan, as the Work would not meet program requirements.** The Adjustment described in this paragraph will be communicated to the Customer in writing and will automatically become part of this Loan Agreement, except that any proposed increase in the Loan Balance will only become part of this Loan Agreement upon Customer’s written consent to such increase.
3. **PG&E shall have no liability in connection with, and makes no warranties, expressed or implied, regarding the Work.** The Parties acknowledge and agree that PG&E is only providing the Local Agency or District cited here with financing. The Customer has independently hired contractors (“Local Agency or District Contractors”) to perform the work on behalf of the Customer to qualify for financing. The Customer acknowledges and agrees that the Local Agency or District Contractors are not third party beneficiaries to this agreement between the Customer and PG&E. To the extent authorized by law and subject to appropriation of the Legislature, the Customer agrees that it will look only to Local Agency or District Contractors for any claims related to the installed equipment or its performance and that PG&E shall have no responsibility or liability, except for the payment of the loan proceeds, and the Customer shall indemnify PG&E for any claims made by the Local Agency or District Contractors against PG&E.
4. Customer represents and warrants that (a) Customer is receiving this Loan solely for Work obtained in connection with Customer’s business, and not for personal, family or household purposes; (b) Customer, if not an individual or a government agency, is duly organized, validly existing and in good standing under the laws of its state of formation, and has full power and authority to enter into this Agreement and to carry out the provisions of this Agreement. Customer is duly qualified and in good standing to do business in all jurisdictions where such qualification is required; (c) this Loan Agreement has been duly authorized by all necessary proceedings, has been duly executed and delivered by Customer and is a valid and legally binding agreement of Customer duly enforceable in accordance with its terms; (d) no consent, approval, authorization, order, registration or qualification of or with any court or regulatory authority or other governmental body having jurisdiction over Customer is required for, and the absence of which would adversely affect, the legal and valid execution and delivery of this Loan Agreement, and the performance of the transactions contemplated by this Loan Agreement; (e) the execution and delivery of this Loan Agreement by Customer hereunder and the compliance by Customer with all provisions of this Loan Agreement: (i) will not conflict with or violate any Applicable Law; and (ii) will not conflict with or result in a breach of or default under any of the terms or provisions of any loan agreement or other contract or agreement under which Customer is an obligor or by which its property is bound; and (f) all factual information furnished by Customer to PG&E in the Application and pursuant to this Agreement is true and accurate.
5. The Application must include the Federal Tax Identification Number or Social Security Number of the party who will be the recipient of the checks for the rebate/incentive or any Loan proceeds. Checks may be issued directly to the Customer or its designated Contractor or both, for the benefit of the Customer, as specified below. Customer acknowledges that PG&E will not be responsible for any tax liability imposed on the Customer or its contractor in connection with the transactions contemplated under the Agreement, whether by virtue of the Loan contemplated under the Agreement, or otherwise, and Customer shall indemnify PG&E for any tax liability imposed upon PG&E as a result of the transactions contemplated under the Agreement.

¹ Local Agency or District as defined in California Government Code §50001 and §58004.

6. Upon completion of the Work, Customer shall send a written confirmation of completion to PG&E's On-Bill Financing Program Administrator at the address listed in Section 15. Within 60 days after receiving the confirmation, PG&E (a) will conduct a post installation inspection and project verification, including review of invoices, receipts and other documents as required by PG&E to verify the correctness of any amounts claimed by Customer; and (b) will adjust, if necessary, the total cost, incentive, Loan Balance, monthly payment, and loan term as stated above. Customer shall give PG&E reasonable access to its premises and the Work. If the Work conforms to all requirements of the Agreement and all amounts claimed by Customer as Work costs are substantiated to PG&E's reasonable satisfaction, PG&E will issue a check ("**Check**") to Customer or Contractor (as designated by Customer in Section 15) for all amounts PG&E approves for payment in accordance with the Agreement. The date of such issuance is the "**Issuance Date**". If the Check is issued to Customer, Customer shall be responsible for paying any outstanding fees due to Contractor for the Work. If the Check is less than the amount due from Customer to Contractor, Customer shall be responsible for the excess due to the Contractor.
7. Customer shall repay the Loan Balance to PG&E as provided in this Loan Agreement irrespective of whether or when the Work is completed, or whether the Work is in any way defective or deficient, and whether or not the Work delivers energy efficiency savings to Customer.
8. The monthly payments will be included by PG&E on the Account's regular energy service bills, or by separate bill, in PG&E's discretion. Regardless whether the monthly payments are included in the regular utility bill or a separate loan installment bill, the following repayment terms will apply:
 - a. The Customer agrees to repay to PG&E the Loan Balance in the number of payments listed below and in equal installments (with the final installment adjusted to account for rounding), by the due date set forth in each PG&E utility bill or loan installment bill rendered in connection with Customer's account (identified by the number set forth below ("Account")), commencing with the bill which has a due date falling at least 30 days after the Issuance Date.
 - b. If separate energy service bills and loan installment bills are provided, amounts due under this Loan Agreement as shown in the loan installment bill shall be deemed to be amounts due under each energy services bill to the Account, and a default under this Loan Agreement shall be treated as a default under the Account.
 - c. If the Customer is unable to make a full utility bill payment in a given month, payment arrangements may be made at PG&E's discretion.
 - d. Any partial bill payments received for a month will be applied in equal proportion to the energy charges and the loan obligation for that month, and the Customer may be considered in default of both the energy bill and the loan installment bill.
 - e. Further payment details are set forth below.
9. Any notice from PG&E to Customer regarding the Program or the transactions contemplated under the Loan Agreement may be provided within a PG&E utility bill or loan installment bill, and any such notices may also be provided to Customer at the address below or to the Customer's billing address of record in PG&E's customer billing system from time to time, and in each case shall be effective five (5) days after they have been mailed.
10. The Loan Balance shall not bear interest.
11. Customer may, without prepayment penalty, pay the entire outstanding loan balance in one lump sum payment provided the customer first notifies PG&E by telephoning the toll free phone number (1-800-468-4743), and by sending written notice to PG&E On-Bill Financing Program Administrator at the address listed below, in advance of making the lump sum payment. Accelerated payments that are received from Customer without PG&E's prior approval may, at PG&E's sole discretion, be applied proportionally to subsequent energy charges and Loan repayments and PG&E shall have no obligation to apply accelerated payments exclusively to reduction of the outstanding Loan.
12. The entire outstanding Loan Balance will become immediately due and payable, and shall be paid by Customer within 30 days if: (i) the Account is closed or terminated for any reason; (ii) Customer defaults under the Agreement; (iii) Customer sells the equipment forming part of the Work to any third party; or (iv) Customer becomes Insolvent. Customer becomes "Insolvent" if: (i) Customer is unable to pay its debts as they become due or otherwise becomes insolvent, makes a general assignment for the benefit of its creditors, or suffers or permits the appointment of a receiver for its business or assets or otherwise ceases to conduct business in the normal course; or (ii) any proceeding is commenced by or against Customer under any bankruptcy or insolvency law that is not dismissed or stayed within 45 days.
13. Customer understands that without limiting any other remedy available to PG&E against Contractor or Customer, **failure to repay the Loan Balance in accordance with the terms of the Agreement could result in shut-off of utility energy service, adverse credit reporting, and collection procedures, including, without limitation, legal action.**
14. If there is any conflict among the documents comprising the Agreement, the following order of priority shall apply: 1. this Loan Agreement; 2. the Application; 3. any documents attached to the Application.

15. LOCAL AGENCY OR DISTRICT REQUIREMENT

a. All Payment Obligations Subject to Appropriation

The Customer acknowledges that the cost incurred pursuant to this Loan Agreement will be part of the monthly bill for electric use. All payment obligations and the Work replacement obligations of the Customer under this Loan Agreement or any related agreement or application is subject to appropriation by the Legislative body belonging to Local Agency or District cited in this loan agreement.

b. No Lien or Encumbrance; Subordination:

(1) Notwithstanding any other provision in this Loan Agreement – , PG&E acknowledges that nothing in this Loan Agreement shall constitute a mortgage, charge, assignment, transfer, pledge, lien or encumbrance upon either the Work or any part of the buildings, structures or related facilities in which the Work is constructed, installed or situated (collectively, the “Related Facilities”). Accordingly, PG&E agrees it will not record or file any instrument that would indicate or imply it has a security interest in the Related Facilities, including but not limited to a UCC-1.

(2) In addition to the preceding paragraph (a), if this Loan Agreement were ever construed or deemed to create any such encumbrance, then: (i) this Loan Agreement shall be junior and subordinate and subject in all respects to the terms and conditions of any and all leases, and indentures related to lease revenue bonds issued by the Local Agency or District cited here or any other issuer of bonds on behalf of the Local Agency or District concerning the Related Facilities entered into in the past, the present or the future (the “Senior Security Documents”); and (ii) any term or condition of this Loan Agreement relating to any right, title or interest in the Related Facilities or other benefits derived there from shall be in all respects junior and subordinate to, and subject to the terms of, the Senior Security Documents.

16. Loan Particulars.

This table is to be completed by PG&E

Total Cost	Incentive	Customer Buy- Down (if applicable)	Loan Balance ¹	Monthly Payment	Term ² (months)	Number of Payments
\$ 62,181.35	\$ -	\$ -	\$ 62,181.35	\$ 942.14	66	66

Check Made Payable to Customer ☐ or Contractor ☒
[customer to select payment method. Note that only one check can be issued]

17. This agreement at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.

Federal Tax ID or Social Security #, Customer	Federal Tax ID or Social Security #, Contractor
94-6000358	80-0196823

PG&E Account # / Service Agreement #
9074702898 / 9074702992

Account Name, Customer	Name, Contractor
Primary Customer Name: CITY OF LIVE OAK - 9633 N ST Project ID: City of Live Oak - Boy Scout Bldg. FA ID: 014007	ECOGREEN SOLUTIONS, COREY BROPHY

Customer Address (For OBF Check Delivery)	Contractor Address (For OBF Check Delivery)
	27671 LA PAZ RD STE 100
	LAGUNA NIGUEL CA 92677

Name and Title of Authorized Representative of Customer	Name and Title of Authorized Representative of Contractor
	COREY BROPHY, ECOGREEN SOLUTIONS

Full Name & Title



Full Signature



Date Signed



Signature of Authorized Representative of Customer

Date

ACCEPTED: Pacific Gas and Electric Company

By	Date
PG&E On-Bill Financing Authorized Representative	

Address:
On-Bill Financing Program
Mail Code N6G
Pacific Gas and Electric Company
PO Box 770000
San Francisco, CA 94177-0001

¹ The Loan Balance shall not exceed two-hundred fifty thousand dollars (\$250,000), except where, in PG&E's sole opinion, the opportunity for uniquely large energy savings exist, in which case the Loan Balance may exceed two-hundred fifty thousand dollars (\$250,000) but shall not exceed four million dollars (\$4,000,000).

² The loan term in months will be established by PG&E at the time of the OBF Loan Agreement initiation. The maximum loan term shall be one hundred and twenty (120) months.

**On-Bill Financing Program (OBF)
Loan Calculation Summary Sheet
Simple project payback per meter**

Customer Name: CITY OF LIVE OAK - 9633 N ST
Project Number: FA ID 014007

Calculations from: Original

(A) PROJECT COST FOR MEASURES	(B) REBATES or INCENTIVES	Customer Down Payment or Buy-Down	CUSTOMER TOTAL LOAN AMOUNT	(C) CUSTOMER AVERAGE RATE PER kWh	(D) CUSTOMER AVERAGE RATE PER Therm	(E) ESTIMATED ANNUAL ENERGY SAVINGS (kWh)	(F) ESTIMATED ANNUAL GAS SAVINGS (Therm)	ESTIMATED ANNUAL ENERGY COST SAVINGS	SIMPLE PAYBACK IN YEARS
\$ 62,181.35	\$ -	\$ -	\$ 62,181.35	\$ 0.30	\$ -	37,606.80	-	\$ 11,434.22	5.44

PAYBACK IN MONTHS BASED ON EXPECTED ENERGY SAVINGS	LOAN TERM (MONTHS) (1 month added for bill neutrality)	CUSTOMER FIXED MONTHLY LOAN PAYMENT	ESTIMATED MONTHLY ENERGY COST SAVINGS
65	66	\$ 942.14	\$ 952.85

(C) = (From utility bill) Total \$ amount (12-month) / Total kWh (same 12-month)
(D) = (From utility bill) Total \$ amount (12-month) / Total therm (same 12-month)



LOCAL AGENCY AND DISTRICT CUSTOMERS ON-BILL FINANCING LOAN AGREEMENT

The undersigned Local Agency or District¹ Customer (“**Customer**”) has contracted for the provision of energy efficiency/demand response equipment and services (the “**Work**”) which qualify for one or more of PG&E’s applicable rebate or incentive programs. Subject to the conditions (including the process for Adjustment and preconditions to funding) set forth below, Pacific Gas and Electric Company (“**PG&E**”) shall extend a loan (the “**Loan**”) to Customer in the amount of the loan balance (the “**Loan Balance**”) pursuant to the terms of this On-Bill Financing Loan Agreement (“**Loan Agreement**”) and PG&E’s rate schedules E-OBF and/or G-OBF, as applicable (the “**Schedule**”).

To request the Loan, Customer has submitted a completed On-Bill Financing Application and associated documentation as required by PG&E (the “**Application**”). Collectively the Application and this Loan Agreement (including any Adjustment hereunder) comprise the “**Agreement**”.

1. Customer shall arrange for its Contractor, as identified at the end of this Agreement (“**Contractor**”), to provide the Work as described in the Application.
2. The estimated Loan Balance is set forth below. The total cost of the Work as installed, rebate/incentive for qualifying energy efficiency measures, Loan Balance, monthly payment, and loan term specified in this Loan Agreement may be adjusted, if necessary, after the Work and the post-installation inspection described in the Application and/or herein are completed (the “**Adjustment**”). The Adjustment will be calculated using the actual total cost of the Work, as installed, and the estimated energy savings (as described in the Application) of such Work. In no event will the Loan Balance be increased without Customer’s written consent, even if Customer is eligible for such increased Loan Balance. Moreover, in no event will the Loan Balance exceed the maximum loan amount stipulated in the Application. Customer understands that in order to be eligible for the Loan, the initial Loan Balance for Work may not fall below the minimum loan amount, nor may the payback period exceed the maximum payback period. **Accordingly, if after the Adjustment, the Loan Balance falls below the minimum loan amount or if the simple payback period exceeds the program maximum payback period, each as described in the Application, PG&E shall have no obligation to extend the Loan, as the Work would not meet program requirements.** The Adjustment described in this paragraph will be communicated to the Customer in writing and will automatically become part of this Loan Agreement, except that any proposed increase in the Loan Balance will only become part of this Loan Agreement upon Customer’s written consent to such increase.
3. **PG&E shall have no liability in connection with, and makes no warranties, expressed or implied, regarding the Work.** The Parties acknowledge and agree that PG&E is only providing the Local Agency or District cited here with financing. The Customer has independently hired contractors (“Local Agency or District Contractors”) to perform the work on behalf of the Customer to qualify for financing. The Customer acknowledges and agrees that the Local Agency or District Contractors are not third party beneficiaries to this agreement between the Customer and PG&E. To the extent authorized by law and subject to appropriation of the Legislature, the Customer agrees that it will look only to Local Agency or District Contractors for any claims related to the installed equipment or its performance and that PG&E shall have no responsibility or liability, except for the payment of the loan proceeds, and the Customer shall indemnify PG&E for any claims made by the Local Agency or District Contractors against PG&E.
4. Customer represents and warrants that (a) Customer is receiving this Loan solely for Work obtained in connection with Customer’s business, and not for personal, family or household purposes; (b) Customer, if not an individual or a government agency, is duly organized, validly existing and in good standing under the laws of its state of formation, and has full power and authority to enter into this Agreement and to carry out the provisions of this Agreement. Customer is duly qualified and in good standing to do business in all jurisdictions where such qualification is required; (c) this Loan Agreement has been duly authorized by all necessary proceedings, has been duly executed and delivered by Customer and is a valid and legally binding agreement of Customer duly enforceable in accordance with its terms; (d) no consent, approval, authorization, order, registration or qualification of or with any court or regulatory authority or other governmental body having jurisdiction over Customer is required for, and the absence of which would adversely affect, the legal and valid execution and delivery of this Loan Agreement, and the performance of the transactions contemplated by this Loan Agreement; (e) the execution and delivery of this Loan Agreement by Customer hereunder and the compliance by Customer with all provisions of this Loan Agreement: (i) will not conflict with or violate any Applicable Law; and (ii) will not conflict with or result in a breach of or default under any of the terms or provisions of any loan agreement or other contract or agreement under which Customer is an obligor or by which its property is bound; and (f) all factual information furnished by Customer to PG&E in the Application and pursuant to this Agreement is true and accurate.
5. The Application must include the Federal Tax Identification Number or Social Security Number of the party who will be the recipient of the checks for the rebate/incentive or any Loan proceeds. Checks may be issued directly to the Customer or its designated Contractor or both, for the benefit of the Customer, as specified below. Customer acknowledges that PG&E will not be responsible for any tax liability imposed on the Customer or its contractor in connection with the transactions contemplated under the Agreement, whether by virtue of the Loan contemplated under the Agreement, or otherwise, and Customer shall indemnify PG&E for any tax liability imposed upon PG&E as a result of the transactions contemplated under the Agreement.

¹ Local Agency or District as defined in California Government Code §50001 and §58004.

6. Upon completion of the Work, Customer shall send a written confirmation of completion to PG&E's On-Bill Financing Program Administrator at the address listed in Section 15. Within 60 days after receiving the confirmation, PG&E (a) will conduct a post installation inspection and project verification, including review of invoices, receipts and other documents as required by PG&E to verify the correctness of any amounts claimed by Customer; and (b) will adjust, if necessary, the total cost, incentive, Loan Balance, monthly payment, and loan term as stated above. Customer shall give PG&E reasonable access to its premises and the Work. If the Work conforms to all requirements of the Agreement and all amounts claimed by Customer as Work costs are substantiated to PG&E's reasonable satisfaction, PG&E will issue a check ("**Check**") to Customer or Contractor (as designated by Customer in Section 15) for all amounts PG&E approves for payment in accordance with the Agreement. The date of such issuance is the "**Issuance Date**". If the Check is issued to Customer, Customer shall be responsible for paying any outstanding fees due to Contractor for the Work. If the Check is less than the amount due from Customer to Contractor, Customer shall be responsible for the excess due to the Contractor.
7. Customer shall repay the Loan Balance to PG&E as provided in this Loan Agreement irrespective of whether or when the Work is completed, or whether the Work is in any way defective or deficient, and whether or not the Work delivers energy efficiency savings to Customer.
8. The monthly payments will be included by PG&E on the Account's regular energy service bills, or by separate bill, in PG&E's discretion. Regardless whether the monthly payments are included in the regular utility bill or a separate loan installment bill, the following repayment terms will apply:
 - a. The Customer agrees to repay to PG&E the Loan Balance in the number of payments listed below and in equal installments (with the final installment adjusted to account for rounding), by the due date set forth in each PG&E utility bill or loan installment bill rendered in connection with Customer's account (identified by the number set forth below ("Account")), commencing with the bill which has a due date falling at least 30 days after the Issuance Date.
 - b. If separate energy service bills and loan installment bills are provided, amounts due under this Loan Agreement as shown in the loan installment bill shall be deemed to be amounts due under each energy services bill to the Account, and a default under this Loan Agreement shall be treated as a default under the Account.
 - c. If the Customer is unable to make a full utility bill payment in a given month, payment arrangements may be made at PG&E's discretion.
 - d. Any partial bill payments received for a month will be applied in equal proportion to the energy charges and the loan obligation for that month, and the Customer may be considered in default of both the energy bill and the loan installment bill.
 - e. Further payment details are set forth below.
9. Any notice from PG&E to Customer regarding the Program or the transactions contemplated under the Loan Agreement may be provided within a PG&E utility bill or loan installment bill, and any such notices may also be provided to Customer at the address below or to the Customer's billing address of record in PG&E's customer billing system from time to time, and in each case shall be effective five (5) days after they have been mailed.
10. The Loan Balance shall not bear interest.
11. Customer may, without prepayment penalty, pay the entire outstanding loan balance in one lump sum payment provided the customer first notifies PG&E by telephoning the toll free phone number (1-800-468-4743), and by sending written notice to PG&E On-Bill Financing Program Administrator at the address listed below, in advance of making the lump sum payment. Accelerated payments that are received from Customer without PG&E's prior approval may, at PG&E's sole discretion, be applied proportionally to subsequent energy charges and Loan repayments and PG&E shall have no obligation to apply accelerated payments exclusively to reduction of the outstanding Loan.
12. The entire outstanding Loan Balance will become immediately due and payable, and shall be paid by Customer within 30 days if: (i) the Account is closed or terminated for any reason; (ii) Customer defaults under the Agreement; (iii) Customer sells the equipment forming part of the Work to any third party; or (iv) Customer becomes Insolvent. Customer becomes "Insolvent" if: (i) Customer is unable to pay its debts as they become due or otherwise becomes insolvent, makes a general assignment for the benefit of its creditors, or suffers or permits the appointment of a receiver for its business or assets or otherwise ceases to conduct business in the normal course; or (ii) any proceeding is commenced by or against Customer under any bankruptcy or insolvency law that is not dismissed or stayed within 45 days.
13. Customer understands that without limiting any other remedy available to PG&E against Contractor or Customer, **failure to repay the Loan Balance in accordance with the terms of the Agreement could result in shut-off of utility energy service, adverse credit reporting, and collection procedures, including, without limitation, legal action.**
14. If there is any conflict among the documents comprising the Agreement, the following order of priority shall apply: 1. this Loan Agreement; 2. the Application; 3. any documents attached to the Application.

15. LOCAL AGENCY OR DISTRICT REQUIREMENT

a. All Payment Obligations Subject to Appropriation

The Customer acknowledges that the cost incurred pursuant to this Loan Agreement will be part of the monthly bill for electric use. All payment obligations and the Work replacement obligations of the Customer under this Loan Agreement or any related agreement or application is subject to appropriation by the Legislative body belonging to Local Agency or District cited in this loan agreement.

b. No Lien or Encumbrance; Subordination:

(1) Notwithstanding any other provision in this Loan Agreement – , PG&E acknowledges that nothing in this Loan Agreement shall constitute a mortgage, charge, assignment, transfer, pledge, lien or encumbrance upon either the Work or any part of the buildings, structures or related facilities in which the Work is constructed, installed or situated (collectively, the “Related Facilities”). Accordingly, PG&E agrees it will not record or file any instrument that would indicate or imply it has a security interest in the Related Facilities, including but not limited to a UCC-1.

(2) In addition to the preceding paragraph (a), if this Loan Agreement were ever construed or deemed to create any such encumbrance, then: (i) this Loan Agreement shall be junior and subordinate and subject in all respects to the terms and conditions of any and all leases, and indentures related to lease revenue bonds issued by the Local Agency or District cited here or any other issuer of bonds on behalf of the Local Agency or District concerning the Related Facilities entered into in the past, the present or the future (the “Senior Security Documents”); and (ii) any term or condition of this Loan Agreement relating to any right, title or interest in the Related Facilities or other benefits derived there from shall be in all respects junior and subordinate to, and subject to the terms of, the Senior Security Documents.

16. Loan Particulars.

This table is to be completed by PG&E

Total Cost	Incentive	Customer Buy- Down (if applicable)	Loan Balance ¹	Monthly Payment	Term ² (months)	Number of Payments
\$ 27,731.85	\$ -	\$ -	\$ 27,731.85	\$ 291.91	95	95

Check Made Payable to Customer ☐ or Contractor ☒
[customer to select payment method. Note that only one check can be issued]

17. This agreement at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.

Federal Tax ID or Social Security #, Customer	Federal Tax ID or Social Security #, Contractor
94-6000358	80-0196823

PG&E Account # / Service Agreement #
9074702898 / 9074702978

Account Name, Customer	Name, Contractor
Primary Customer Name: CITY OF LIVE OAK - 10200 O ST Project ID: City of Live Oak - Community Bldg FA ID: 014010	EcoGreen Solutions, Corey Brophy, Program Manager

Customer Address (For OBF Check Delivery)	Contractor Address (For OBF Check Delivery)
	27671 La Paz Rd, Suite 100
	Laguna Niguel CA 92677

Name and Title of Authorized Representative of Customer	Name and Title of Authorized Representative of Contractor
	Corey Brophy, Program Manager, EcoGreen Solutions

Full Name & Title



Full Signature



Date Signed



Signature of Authorized Representative of Customer
Date

ACCEPTED: Pacific Gas and Electric Company

By	Date
PG&E On-Bill Financing Authorized Representative	

Address:
On-Bill Financing Program
Mail Code N6G
Pacific Gas and Electric Company
PO Box 770000
San Francisco, CA 94177-0001

¹ The Loan Balance shall not exceed two-hundred fifty thousand dollars (\$250,000), except where, in PG&E's sole opinion, the opportunity for uniquely large energy savings exist, in which case the Loan Balance may exceed two-hundred fifty thousand dollars (\$250,000) but shall not exceed four million dollars (\$4,000,000).

² The loan term in months will be established by PG&E at the time of the OBF Loan Agreement initiation. The maximum loan term shall be one hundred and twenty (120) months.

**On-Bill Financing Program (OBF)
Loan Calculation Summary Sheet
Simple project payback per meter**

Customer Name: CITY OF LIVE OAK - 10200 O ST
Project Number: FA ID 014010

Calculations from: Original

(A) PROJECT COST FOR MEASURES	(B) REBATES or INCENTIVES	Customer Down Payment or Buy-Down	CUSTOMER TOTAL LOAN AMOUNT	(C) CUSTOMER AVERAGE RATE PER kWh	(D) CUSTOMER AVERAGE RATE PER Therm	(E) ESTIMATED ANNUAL ENERGY SAVINGS (kWh)	(F) ESTIMATED ANNUAL GAS SAVINGS (Therm)	ESTIMATED ANNUAL ENERGY COST SAVINGS	SIMPLE PAYBACK IN YEARS
\$ 27,731.85	-	\$ -	\$ 27,731.85	0.32 \$	-	11,070.97	-	\$ 3,524.12	7.87

PAYBACK IN MONTHS BASED ON EXPECTED ENERGY SAVINGS	LOAN TERM (MONTHS) (1 month added for bill neutrality)	CUSTOMER FIXED MONTHLY LOAN PAYMENT	ESTIMATED MONTHLY ENERGY COST SAVINGS
94	95	\$ 291.91	\$ 293.68

(C) = (From utility bill) Total \$ amount (12-month) / Total kWh (same 12-month)
(D) = (From utility bill) Total \$ amount (12-month) / Total therm (same 12-month)



LOCAL AGENCY AND DISTRICT CUSTOMERS ON-BILL FINANCING LOAN AGREEMENT

The undersigned Local Agency or District¹ Customer (“**Customer**”) has contracted for the provision of energy efficiency/demand response equipment and services (the “**Work**”) which qualify for one or more of PG&E’s applicable rebate or incentive programs. Subject to the conditions (including the process for Adjustment and preconditions to funding) set forth below, Pacific Gas and Electric Company (“**PG&E**”) shall extend a loan (the “**Loan**”) to Customer in the amount of the loan balance (the “**Loan Balance**”) pursuant to the terms of this On-Bill Financing Loan Agreement (“**Loan Agreement**”) and PG&E’s rate schedules E-OBF and/or G-OBF, as applicable (the “**Schedule**”).

To request the Loan, Customer has submitted a completed On-Bill Financing Application and associated documentation as required by PG&E (the “**Application**”). Collectively the Application and this Loan Agreement (including any Adjustment hereunder) comprise the “**Agreement**”.

1. Customer shall arrange for its Contractor, as identified at the end of this Agreement (“**Contractor**”), to provide the Work as described in the Application.
2. The estimated Loan Balance is set forth below. The total cost of the Work as installed, rebate/incentive for qualifying energy efficiency measures, Loan Balance, monthly payment, and loan term specified in this Loan Agreement may be adjusted, if necessary, after the Work and the post-installation inspection described in the Application and/or herein are completed (the “**Adjustment**”). The Adjustment will be calculated using the actual total cost of the Work, as installed, and the estimated energy savings (as described in the Application) of such Work. In no event will the Loan Balance be increased without Customer’s written consent, even if Customer is eligible for such increased Loan Balance. Moreover, in no event will the Loan Balance exceed the maximum loan amount stipulated in the Application. Customer understands that in order to be eligible for the Loan, the initial Loan Balance for Work may not fall below the minimum loan amount, nor may the payback period exceed the maximum payback period. **Accordingly, if after the Adjustment, the Loan Balance falls below the minimum loan amount or if the simple payback period exceeds the program maximum payback period, each as described in the Application, PG&E shall have no obligation to extend the Loan, as the Work would not meet program requirements.** The Adjustment described in this paragraph will be communicated to the Customer in writing and will automatically become part of this Loan Agreement, except that any proposed increase in the Loan Balance will only become part of this Loan Agreement upon Customer’s written consent to such increase.
3. **PG&E shall have no liability in connection with, and makes no warranties, expressed or implied, regarding the Work.** The Parties acknowledge and agree that PG&E is only providing the Local Agency or District cited here with financing. The Customer has independently hired contractors (“Local Agency or District Contractors”) to perform the work on behalf of the Customer to qualify for financing. The Customer acknowledges and agrees that the Local Agency or District Contractors are not third party beneficiaries to this agreement between the Customer and PG&E. To the extent authorized by law and subject to appropriation of the Legislature, the Customer agrees that it will look only to Local Agency or District Contractors for any claims related to the installed equipment or its performance and that PG&E shall have no responsibility or liability, except for the payment of the loan proceeds, and the Customer shall indemnify PG&E for any claims made by the Local Agency or District Contractors against PG&E.
4. Customer represents and warrants that (a) Customer is receiving this Loan solely for Work obtained in connection with Customer’s business, and not for personal, family or household purposes; (b) Customer, if not an individual or a government agency, is duly organized, validly existing and in good standing under the laws of its state of formation, and has full power and authority to enter into this Agreement and to carry out the provisions of this Agreement. Customer is duly qualified and in good standing to do business in all jurisdictions where such qualification is required; (c) this Loan Agreement has been duly authorized by all necessary proceedings, has been duly executed and delivered by Customer and is a valid and legally binding agreement of Customer duly enforceable in accordance with its terms; (d) no consent, approval, authorization, order, registration or qualification of or with any court or regulatory authority or other governmental body having jurisdiction over Customer is required for, and the absence of which would adversely affect, the legal and valid execution and delivery of this Loan Agreement, and the performance of the transactions contemplated by this Loan Agreement; (e) the execution and delivery of this Loan Agreement by Customer hereunder and the compliance by Customer with all provisions of this Loan Agreement: (i) will not conflict with or violate any Applicable Law; and (ii) will not conflict with or result in a breach of or default under any of the terms or provisions of any loan agreement or other contract or agreement under which Customer is an obligor or by which its property is bound; and (f) all factual information furnished by Customer to PG&E in the Application and pursuant to this Agreement is true and accurate.
5. The Application must include the Federal Tax Identification Number or Social Security Number of the party who will be the recipient of the checks for the rebate/incentive or any Loan proceeds. Checks may be issued directly to the Customer or its designated Contractor or both, for the benefit of the Customer, as specified below. Customer acknowledges that PG&E will not be responsible for any tax liability imposed on the Customer or its contractor in connection with the transactions contemplated under the Agreement, whether by virtue of the Loan contemplated under the Agreement, or otherwise, and Customer shall indemnify PG&E for any tax liability imposed upon PG&E as a result of the transactions contemplated under the Agreement.

¹ Local Agency or District as defined in California Government Code §50001 and §58004.

6. Upon completion of the Work, Customer shall send a written confirmation of completion to PG&E's On-Bill Financing Program Administrator at the address listed in Section 15. Within 60 days after receiving the confirmation, PG&E (a) will conduct a post installation inspection and project verification, including review of invoices, receipts and other documents as required by PG&E to verify the correctness of any amounts claimed by Customer; and (b) will adjust, if necessary, the total cost, incentive, Loan Balance, monthly payment, and loan term as stated above. Customer shall give PG&E reasonable access to its premises and the Work. If the Work conforms to all requirements of the Agreement and all amounts claimed by Customer as Work costs are substantiated to PG&E's reasonable satisfaction, PG&E will issue a check ("**Check**") to Customer or Contractor (as designated by Customer in Section 15) for all amounts PG&E approves for payment in accordance with the Agreement. The date of such issuance is the "**Issuance Date**". If the Check is issued to Customer, Customer shall be responsible for paying any outstanding fees due to Contractor for the Work. If the Check is less than the amount due from Customer to Contractor, Customer shall be responsible for the excess due to the Contractor.
7. Customer shall repay the Loan Balance to PG&E as provided in this Loan Agreement irrespective of whether or when the Work is completed, or whether the Work is in any way defective or deficient, and whether or not the Work delivers energy efficiency savings to Customer.
8. The monthly payments will be included by PG&E on the Account's regular energy service bills, or by separate bill, in PG&E's discretion. Regardless whether the monthly payments are included in the regular utility bill or a separate loan installment bill, the following repayment terms will apply:
- The Customer agrees to repay to PG&E the Loan Balance in the number of payments listed below and in equal installments (with the final installment adjusted to account for rounding), by the due date set forth in each PG&E utility bill or loan installment bill rendered in connection with Customer's account (identified by the number set forth below ("Account")), commencing with the bill which has a due date falling at least 30 days after the Issuance Date.
 - If separate energy service bills and loan installment bills are provided, amounts due under this Loan Agreement as shown in the loan installment bill shall be deemed to be amounts due under each energy services bill to the Account, and a default under this Loan Agreement shall be treated as a default under the Account.
 - If the Customer is unable to make a full utility bill payment in a given month, payment arrangements may be made at PG&E's discretion.
 - Any partial bill payments received for a month will be applied in equal proportion to the energy charges and the loan obligation for that month, and the Customer may be considered in default of both the energy bill and the loan installment bill.
 - Further payment details are set forth below.
9. Any notice from PG&E to Customer regarding the Program or the transactions contemplated under the Loan Agreement may be provided within a PG&E utility bill or loan installment bill, and any such notices may also be provided to Customer at the address below or to the Customer's billing address of record in PG&E's customer billing system from time to time, and in each case shall be effective five (5) days after they have been mailed.
10. The Loan Balance shall not bear interest.
11. Customer may, without prepayment penalty, pay the entire outstanding loan balance in one lump sum payment provided the customer first notifies PG&E by telephoning the toll free phone number (1-800-468-4743), and by sending written notice to PG&E On-Bill Financing Program Administrator at the address listed below, in advance of making the lump sum payment. Accelerated payments that are received from Customer without PG&E's prior approval may, at PG&E's sole discretion, be applied proportionally to subsequent energy charges and Loan repayments and PG&E shall have no obligation to apply accelerated payments exclusively to reduction of the outstanding Loan.
12. The entire outstanding Loan Balance will become immediately due and payable, and shall be paid by Customer within 30 days if: (i) the Account is closed or terminated for any reason; (ii) Customer defaults under the Agreement; (iii) Customer sells the equipment forming part of the Work to any third party; or (iv) Customer becomes Insolvent. Customer becomes "Insolvent" if: (i) Customer is unable to pay its debts as they become due or otherwise becomes insolvent, makes a general assignment for the benefit of its creditors, or suffers or permits the appointment of a receiver for its business or assets or otherwise ceases to conduct business in the normal course; or (ii) any proceeding is commenced by or against Customer under any bankruptcy or insolvency law that is not dismissed or stayed within 45 days.
13. Customer understands that without limiting any other remedy available to PG&E against Contractor or Customer, **failure to repay the Loan Balance in accordance with the terms of the Agreement could result in shut-off of utility energy service, adverse credit reporting, and collection procedures, including, without limitation, legal action.**
14. If there is any conflict among the documents comprising the Agreement, the following order of priority shall apply: 1. this Loan Agreement; 2. the Application; 3. any documents attached to the Application.

15. LOCAL AGENCY OR DISTRICT REQUIREMENT

a. All Payment Obligations Subject to Appropriation

The Customer acknowledges that the cost incurred pursuant to this Loan Agreement will be part of the monthly bill for electric use. All payment obligations and the Work replacement obligations of the Customer under this Loan Agreement or any related agreement or application is subject to appropriation by the Legislative body belonging to Local Agency or District cited in this loan agreement.

b. No Lien or Encumbrance; Subordination:

(1) Notwithstanding any other provision in this Loan Agreement – , PG&E acknowledges that nothing in this Loan Agreement shall constitute a mortgage, charge, assignment, transfer, pledge, lien or encumbrance upon either the Work or any part of the buildings, structures or related facilities in which the Work is constructed, installed or situated (collectively, the “Related Facilities”). Accordingly, PG&E agrees it will not record or file any instrument that would indicate or imply it has a security interest in the Related Facilities, including but not limited to a UCC-1.

(2) In addition to the preceding paragraph (a), if this Loan Agreement were ever construed or deemed to create any such encumbrance, then: (i) this Loan Agreement shall be junior and subordinate and subject in all respects to the terms and conditions of any and all leases, and indentures related to lease revenue bonds issued by the Local Agency or District cited here or any other issuer of bonds on behalf of the Local Agency or District concerning the Related Facilities entered into in the past, the present or the future (the “Senior Security Documents”); and (ii) any term or condition of this Loan Agreement relating to any right, title or interest in the Related Facilities or other benefits derived there from shall be in all respects junior and subordinate to, and subject to the terms of, the Senior Security Documents.

16. Loan Particulars.

This table is to be completed by PG&E

Total Cost	Incentive	Customer Buy- Down (if applicable)	Loan Balance ¹	Monthly Payment	Term ² (months)	Number of Payments
\$ 29,885.78	\$ -	\$ -	\$ 29,885.78	\$ 635.87	47	47

Check Made Payable to Customer ☐ or Contractor ☒
[customer to select payment method. Note that only one check can be issued]

17. This agreement at all times shall be subject to such modifications as the California Public Utilities Commission may direct from time to time in the exercise of its jurisdiction.

Federal Tax ID or Social Security #, Customer	Federal Tax ID or Social Security #, Contractor
94-6000358	80-0196823

PG&E Account # / Service Agreement #
9074702898 / 9074702376

Account Name, Customer	Name, Contractor
Primary Customer Name: CITY OF LIVE OAK - 100 TREATMENT PLANT ACCESS RD - Project ID: City of Live Oak - WWTP FA ID: 014013	ECOGREEN SOLUTIONS, COREY BROPHY

Customer Address (For OBF Check Delivery)	Contractor Address (For OBF Check Delivery)
	27671 LA PAZ RD STE 100
	LAGUNA NIGUEL CA 92677

Name and Title of Authorized Representative of Customer	Name and Title of Authorized Representative of Contractor
AARON PALMER, City Manager	COREY BROPHY, ECOGREEN SOLUTIONS

Full Name & Title

Signature of Authorized Representative of Customer

Full Signature

Date

Date Signed

ACCEPTED: Pacific Gas and Electric Company

By	Date
PG&E On-Bill Financing Authorized Representative	

Address:
On-Bill Financing Program
Mail Code N6G
Pacific Gas and Electric Company
PO Box 770000
San Francisco, CA 94177-0001

¹ The Loan Balance shall not exceed two-hundred fifty thousand dollars (\$250,000), except where, in PG&E's sole opinion, the opportunity for uniquely large energy savings exist, in which case the Loan Balance may exceed two-hundred fifty thousand dollars (\$250,000) but shall not exceed four million dollars (\$4,000,000).

² The loan term in months will be established by PG&E at the time of the OBF Loan Agreement initiation. The maximum loan term shall be one hundred and twenty (120) months.

**On-Bill Financing Program (OBF)
Loan Calculation Summary Sheet
Simple project payback per meter**

Customer Name: CITY OF LIVE OAK - 100 TREATMENT PLANT ACCESS RD -
Project Number: FA ID 014013

Calculations from:

Original

(A) PROJECT COST FOR MEASURES	(B) REBATES or INCENTIVES	Customer Down Payment or Buy-Down	CUSTOMER TOTAL LOAN AMOUNT	(C) CUSTOMER AVERAGE RATE PER kWh	(D) CUSTOMER AVERAGE RATE PER Therm	(E) ESTIMATED ANNUAL ENERGY SAVINGS (kWh)	(F) ESTIMATED ANNUAL GAS SAVINGS (Therm)	ESTIMATED ANNUAL ENERGY COST SAVINGS	SIMPLE PAYBACK IN YEARS
\$ 29,885.78	\$ -	\$ -	\$ 29,885.78	\$ 0.22	\$ -	35,284.79	-	\$ 7,733.68	3.86

PAYBACK IN MONTHS BASED ON EXPECTED ENERGY SAVINGS	LOAN TERM (MONTHS) (1 month added for bill neutrality)	CUSTOMER FIXED MONTHLY LOAN PAYMENT	ESTIMATED MONTHLY ENERGY COST SAVINGS
46	47	\$ 635.87	\$ 644.47

(C) = (From utility bill) Total \$ amount (12-month) / Total kWh (same 12-month)

(D) = (From utility bill) Total \$ amount (12-month) / Total therm (same 12-month)